



รายงานวิจัยฉบับสมบูรณ์

โครงการทุนพัฒนาศักยภาพการวิจัยเชิงสถาบันของภาควิชาเคมี
คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

โดย รองศาสตราจารย์ ดร.วุฒิชัย พาราสุข

สิงหาคม 2561

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สนับสนุนโดยสำนักงานกองทุนสนับสนุนการวิจัย
จุฬาลงกรณ์มหาวิทยาลัย และ คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

(ความเห็นในรายงานนี้เป็นของผู้วิจัย สกว. ไม่จำเป็นต้องเห็นด้วยเสมอไป)

บทคัดย่อ

รหัสโครงการ : IRG5780002

ชื่อโครงการ : ทุนพัฒนาศักยภาพการวิจัยเชิงสถาบันของภาควิชาเคมี คณะวิทยาศาสตร์
จุฬาลงกรณ์มหาวิทยาลัย

ชื่อนักวิจัย : รองศาสตราจารย์ ดร.วุฒิชัย พาราสูข
ภาควิชาเคมี คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

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ระยะเวลาโครงการ : 3 ปี (1 กันยายน 2558 ถึง 31 สิงหาคม 2560)

ขอขยายโครงการ 1 กันยายน 2560 ถึง 31 สิงหาคม 2561

ภาควิชาเคมี คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ได้รับการประเมินจากสำนักงาน กองทุนสนับสนุนการวิจัยให้เป็นหน่วยงานที่มีคุณภาพงานวิจัยเชิงวิชาการในระดับ 5 (ดีมาก) ใน 2 รอบการประเมิน (2551-2552 และ 2553-2554) ซึ่งเป็นผลมาจากจำนวนและคุณภาพของผลงานวิจัยที่ได้รับการตีพิมพ์ในวารสารวิจัยระดับนานาชาติที่เกิดขึ้นอย่างต่อเนื่องในแต่ละปี อย่างไรก็ตามผลการประเมินจากสกว. ทั้ง 2 ครั้งที่ผ่านมาได้ส่งผลให้ หน่วยงานระดับอุดมศึกษาทั่วทั้งประเทศไทยมีความตื่นตัวในการสร้างผลงานตีพิมพ์เพื่อให้ก้าวเข้าสู่ความเป็นนานาชาติ ดังนั้น ภาควิชาเคมี คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัยจึงได้มีมติและคณะกรรมการวิจัยให้มีความต่อเนื่องแบบก้าวกระโดด จึงได้มีการจัดสรรทุนพัฒนาศักยภาพการวิจัยนี้ให้แก่นิสิตและคณาจารย์ในภาควิชาเพื่อเป็นแรงผลักดันในการเร่งสร้างผลงาน อีกทั้งยังเป็นการสร้างขวัญกำลังใจให้คณาจารย์ที่สร้างสรรค์ผลงานมาอย่างต่อเนื่องสม่ำเสมอ ซึ่งจะส่งผลให้ภาพรวมของการวิจัยในภาควิชามีความก้าวหน้าขึ้นไปจนสามารถเทียบเคียงได้กับสาขาเคมีในมหาวิทยาลัยระดับนานาชาติ

กลยุทธ์ที่ใช้ดำเนินการเพื่อให้บรรลุเป้าหมาย

1. การให้รางวัลนิสิตและอาจารย์ที่มีผลงานตีพิมพ์

1.1 เกณฑ์การพิจารณารางวัล Manuscript (สำหรับนิสิต)

1.1.1 ผู้สมัครต้องเป็นนิสิตในหลักสูตรของคณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย และมีอาจารย์ที่ปรึกษาเป็นอาจารย์ของภาควิชาเคมี คณะวิทยาศาสตร์

1.1.2 Manuscript ที่ส่งมาพิจารณาต้องตรงตามเกณฑ์ต่อไปนี้

1.1.2.1 มีชื่อผู้สมัครและอาจารย์ที่ปรึกษาอยู่ในผลงานเรื่องนั้น

1.1.2.2 เป็นงานวิจัยที่เกี่ยวข้องกับ senior project หรือวิทยานิพนธ์ของผู้สมัคร

1.1.2.3 เป็น manuscript ที่ส่งไม่เกินวันที่ผู้สมัครสอบ senior project หรือสอบวิทยานิพนธ์

1.1.2.4 ผ่านการประเมินโดยกรรมการที่แต่งตั้งโดยประธานสอบ senior project หรือวิทยานิพนธ์

1.2 เกณฑ์การพิจารณารางวัล Research Paper (สำหรับอาจารย์)

1.2.1 ผู้สมัครต้องเป็นอาจารย์ประจำสังกัดภาควิชาเคมี คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

1.2.2 Research Paper ที่ส่งมาพิจารณาต้องตรงตามเกณฑ์ต่อไปนี้

1.2.2.1 มีชื่ออาจารย์ผู้สมัครเป็น corresponding author

1.2.2.2 มี affiliation ที่ระบุชื่อภาควิชาเคมี คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

1.2.2.3 ได้รับการตีพิมพ์ในวารสารที่อยู่ในฐานข้อมูล ISI (web of science)

2. Chem CU-NTU graduate student exchange program

วัตถุประสงค์

1. เพื่อเร่งรัดการเบิกจ่ายทุนพัฒนาศักยภาพงานวิจัยเชิงสถาบันให้ทันภายใน 3 ปี
2. เพื่อสร้างความร่วมมือในการวิจัยกับสถาบันการศึกษาชั้นนำของโลก
3. เพื่อเพิ่มโอกาสในการสร้างผลงานตีพิมพ์ที่มี impact factor สูง
4. เพื่อเพิ่มความเป็นนานาชาติจากการได้รับนักศึกษาแลกเปลี่ยน (inbound)

งบประมาณ ไม่เกิน 450,000 บาท

รูปแบบการดำเนินการ

คัดเลือกนิสิตระดับบัณฑิตศึกษาจำนวนไม่เกิน 3 คน ไปทำวิจัยกับกลุ่มวิจัยของอาจารย์ที่ Nanyang Technological University (NTU) ประเทศสิงคโปร์ โดยงานวิจัยที่จะทำอาจเป็นโครงการอิสระที่ไม่เกี่ยวข้อง กับวิทยานิพนธ์ก็ได้ ระยะเวลาของการเข้าร่วม research exchange นี้ไม่เกิน 3 เดือน (พ.ค. ถึง ก.ค. 2559)

อาจารย์ที่ปรึกษาของนิสิตมีหน้าที่ประสานงานกับอาจารย์ของ NTU เกี่ยวกับแผนการเดินทาง และแผนการทำวิจัยของนิสิต

นิสิตมีหน้าที่ดำเนินงานวิจัยที่ได้รับมอบหมาย จัดทำรายงานสรุปผลงานวิจัย และจัดทำบัญชีค่าใช้จ่ายให้เป็นไปตามหลักการเบิกจ่าย

	2014		2015		2016		2017	
	จำนวน	ร้อยละ	จำนวน	ร้อยละ	จำนวน	ร้อยละ	จำนวน	ร้อยละ
Q1	69	47.92	73	64.04	87	60.84	65	63.73
Q2	38	26.39	31	27.19	43	30.07	28	27.45
Q3	30	20.83	10	8.77	13	9.09	8	7.84
Q4	3	2.08	0	0.00	0	0.00	1	0.98
Unclassified	4	2.78	0	0.00	0	0.00	0	0
รวม	144	100.00	114	100.00	143	100.00	102	100.00

สรุปผลการดำเนินการ

1. การให้รางวัลนิสิตและอาจารย์ที่มีผลงานตีพิมพ์

ปีงบประมาณ	รางวัลสำหรับนิสิต		ค่าตอบแทนสำหรับอาจารย์			พิจารณาจาก ผลงานใน ปี ค.ศ.	จำนวน ผลงานที่คัด ไว้ (เรื่อง)	จำนวน ผลงานที่ได้ จริง (เรื่อง)
	จำนวน (คน)	เป็นเงิน (บาท)	จำนวน (คน)	ผลงาน (เรื่อง)	เป็นเงิน (บาท)			
1	29	527,500	39	79	780,000	2014	140	144
1 to 2	24	460,000	33	64	960,000	2015	150	114
2 to 3	15	290,000	36	83	1,170,000	2016	160	143
3 to 4	0	0	31	62	930,000	2017	n/a	102
4 (ขอขยาย)	0	0	17	26	196,800	2018(3 mo.)	n/a	50
รวม		1,277,500			4,036,800			

2. Chem CU-NTU graduate student exchange program

ภาควิชาฯ ได้คัดเลือกนิสิตระดับบัณฑิตศึกษาจำนวน 3 คน ได้แก่ นายธีรนนท์ แท่นคำ, นางสาววรัญญู พิพรรณพงษ์ และนางสาวสุรินทร์ยา ไตรภพ เพื่อเข้าร่วมโครงการ โดยนิสิตแต่ละคนได้เลือกหัวข้อวิจัย และอาจารย์จาก NTU ตามความสนใจของตนเอง โดยมีสรุปผลการทำวิจัยรายบุคคลดังนี้

- 2.1 ชื่อนิสิต นายธีรนนท์ แท่นคำ
 ชื่ออาจารย์ที่ปรึกษาที่จุฬาฯ รศ.ดร.สัมฤทธิ์ วัชรสินธุ์
 ชื่ออาจารย์ที่ไปเข้าร่วมกลุ่มวิจัยด้วยที่ NTU Assoc.Prof.Dr. Tan Choon Hong
 วันที่เริ่มทำงานวิจัย และวันสุดท้ายของการร่วมงานวิจัย 1 มิ.ย. - 31 ก.ค. 2559
 รายละเอียดของงานวิจัยที่ทำ และผลงานที่ได้

การทำปฏิกิริยาคัปปลิงระหว่าง N-phenyl glycine และ dihydropyran โดยใช้สีย้อมอินทรีย์เช่น Eosin Y หรือ Fluorescein เป็นตัวเร่งเชิงแสง ผลการทดลองพบว่า การใช้ตัวเร่งเชิงแสง 2%mol ทำปฏิกิริยาในเมทานอล ภายใต้การฉายแสงจากโคมไฟ 11W ที่อุณหภูมิห้องเป็นเวลา 24 ชั่วโมง ได้ผลิตภัณฑ์เป็นของแข็งสีเหลือง ร้อยละผลได้ 30% และ 56% เมื่อใช้ตัวเร่งเชิงแสงเป็น Eosin Y และ Fluorescein ตามลำดับ แยกผลิตภัณฑ์ด้วยเทคนิค คอลัมน์โครมาโทกราฟี ตรวจสอบโครงสร้างผลิตภัณฑ์โดยเทคนิค ^1H NMR แต่เมื่อเปลี่ยนตัวทำละลายเป็น เอทานอลหรือไอโซโพรพานอล ไม่สามารถแยกผลิตภัณฑ์ออกจากปฏิกิริยาได้

ความเห็นของนิสิตที่มีต่อโครงการแลกเปลี่ยนครั้งนี้

เป็นโครงการที่ให้ประสบการณ์การในการวิจัยในต่างประเทศที่มหาวิทยาลัยชั้นนำระดับโลก ทำให้มีแรงบันดาลใจและไอเดียใหม่ๆ ในการกลับมาทำวิจัยกับอาจารย์ที่ปรึกษาที่จุฬาฯ จึงคิดว่าควรมีโครงการนี้อีกทุกๆ ปี งบประมาณ 150,000 บาทเหมาะสมในการทำวิจัยที่สิงคโปร์ 2-3 เดือนแล้ว แม้ต้องหาที่พักในสิงคโปร์เอง และเอกสาร ขั้นตอนการได้บัตรนิสิตแลกเปลี่ยนของสิงคโปร์ยุ่งยาก

- 2.2 ชื่อนิสิต น.ส. วรัญญู พิพรรณพงษ์
 ชื่ออาจารย์ที่ปรึกษาที่จุฬาฯ ศ.ดร.วิทยา เรืองพรวิสุทธิ

ชื่ออาจารย์ที่ไปเข้าร่วมกลุ่มวิจัยด้วยที่ NTU

Asst. Prof. Hajime Hirao

วันที่เริ่มทำงานวิจัย และวันสุดท้ายของการร่วมงานวิจัย 31 พ.ค. -30 ก.ค. 2559

รายละเอียดของงานวิจัยที่ทำ และผลงานที่ได้

กระบวนการดูดซับ และแตกออกของแก๊สไฮโดรเจนบนผิว C_{60} และบนผิว C_{60} ที่ถูกโดปด้วยโลหะลิเทียมถูกศึกษาด้วยวิธีการ DFT/B3LYP ระดับเบสิสเซต 6-31G(d) จากการคำนวณ Optimization และ Frequency analysis สามารถศึกษาจลนศาสตร์ของปฏิกิริยาด้วยแผนภาพแสดงการเกิดปฏิกิริยา และพบว่าแก๊สไฮโดรเจนสามารถดูดซับ และแตกออกได้บนผิว C_{60} ที่ถูกโดปด้วยโลหะลิเทียมได้ดีกว่าบนผิว C_{60} บริสุทธิ์ เนื่องจากมีค่าพลังงานก่อกัมมันต์ในการเกิดปฏิกิริยาที่ต่ำกว่า ทั้งนี้ผลงานที่ทำได้อาจได้รับการศึกษาต่อโดยทีมวิจัยของ Asst. Prof. Hajime Hirao เพื่อตีพิมพ์ในวารสารวิชาการ

ความเห็นของนิสิตที่มีต่อโครงการแลกเปลี่ยนครั้งนี้

NTU เป็นมหาวิทยาลัยที่มีความเพียบพร้อมทั้งด้านบุคลากร และเครื่องมือวิทยาศาสตร์ อีกทั้งยังมีลักษณะการทำงานที่เข้มข้นมาก จึงเป็นโอกาสอย่างมากที่จะดำเนินโครงการต่อสำหรับนิสิตในรุ่นถัดไป เพื่อเป็นการกระตุ้นนิสิต และสร้างความสัมพันธ์ทางวิชาการ

2.3 ชื่อ นิสิต

ชื่ออาจารย์ที่ปรึกษาที่จุฬาฯ

น.ส.สุรินทร์ยา ไตรภพ

ชื่ออาจารย์ที่ไปเข้าร่วมกลุ่มวิจัยด้วยที่ NTU

ผศ.ดร.สุชาดา จุณนวัจนกุล

วันที่เริ่มทำงานวิจัย และวันสุดท้ายของการร่วมงานวิจัย 1 มิ.ย. – 29 ส.ค. 2559

Dr. Alessandra Bonanni

รายละเอียดของงานวิจัยที่ทำ และผลงานที่ได้

ทำการดัดแปรผิวไฟฟ้าใช้งาน glassy carbon ด้วยกราฟีนออกไซด์ที่เตรียมได้จากกระจายตัวของกราฟีนออกไซด์ใน *N,N*-dimethylformamide (DMF) ความเข้มข้น 1 mg/mL ด้วย ultrasonicator เป็นเวลา 2 ชั่วโมง หยดกราฟีนออกไซด์ที่เตรียมได้ข้างต้น 3 μ L ลงบนผิวหน้าผิว glassy carbon ที่สะอาดแล้วปล่อยให้แห้งที่อุณหภูมิห้อง และใช้ผิวไฟฟ้าที่ดัดแปรนี้ศึกษาคุณสมบัติทางเคมีไฟฟ้าของสารเคมีสำคัญในอาหาร ในงานวิจัยนี้ได้ศึกษาคุณสมบัติของ gallic acid, epigallocatechin และ epigallocatechin gallate ซึ่งเป็นสารสำคัญที่พบมากในพืช โดยเฉพาะในใบชา จากการศึกษาพบว่าสารเคมีทั้งสามชนิดสามารถให้สัญญาณทางเคมีไฟฟ้าได้โดยการเกิดปฏิกิริยาออกซิเดชันที่ผิวหน้าผิวไฟฟ้าแบบ adsorption control ผิวไฟฟ้าที่ดัดแปรนี้สามารถทำการปรับลดปริมาณออกซิเจนที่ผิวหน้าผิวไฟฟ้าโดยการให้ศักย์ไฟฟ้าที่มีค่าเป็นลบเป็นเวลา 5 นาที ก่อนทำการตรวจวัดสารที่สนใจพบว่า การให้ศักย์ไฟฟ้าในช่วง -0.9 ถึง -1.1 V สามารถเพิ่มสัญญาณทางเคมีไฟฟ้าให้สารที่สนใจได้อย่างมากถึงแม้ว่าจะยังมีออกซิเจนหลงเหลืออยู่บนผิวหน้าผิวจากการศึกษาปฏิกิริยารีดักชันของออกซิเจนที่ผิวหน้าผิวไฟฟ้าบ้างก็ตาม

ความเห็นของนิสิตที่มีต่อโครงการแลกเปลี่ยนครั้งนี้

โครงการนี้ทำให้ข้าพเจ้ามีโอกาสได้รับประสบการณ์ใหม่ ได้พัฒนาตัวเองในหลายๆ ด้าน ทั้งการทำงานวิจัย, ภาษา, และได้รู้จักกับเพื่อนใหม่ที่ทำงานคล้ายกัน เป็นประสบการณ์ที่

ดีมากค่ะ ถึงแม้ว่าจะมีอุปสรรคบ้างในบางเรื่องโดยเฉพาะด้านเอกสารทำให้การดำเนินงานต่างๆ มีความล่าช้าไปบ้างก็ตาม

3. Chem CU Research Assistantship

นางสาวพิมพ์พิมล อเนกธีรกุล	จำนวนเงิน 60,000 บาท
นายปิยวัณ แสงพิทยากร	จำนวนเงิน 60,000 บาท
นางสาวปิยะภา ดิสสระ	จำนวนเงิน 60,000 บาท
นายณัฐวุฒิ ไตรวรจรกุล	จำนวนเงิน 20,000 บาท

4. Chem CU Undergraduate Internship

นางสาววิมลลิน จรุงวรรณะ	พ.ค. – ก.ค. 2560	จำนวนเงิน 13,000 บาท
Miss Esra Irmak	มิ.ย. – ก.ย. 2560	จำนวนเงิน 22,700 บาท

Output จากโครงการวิจัยที่ได้รับทุนจาก สกว.

ผลงานตีพิมพ์ในวารสารวิชาการนานาชาติ (ระบุชื่อผู้แต่ง ชื่อเรื่อง ชื่อวารสาร ปี เล่มที่ เลขที่ และหน้า)
ดังแสดงในเอกสารแนบ

รูปแบบรายการเงิน

สัญญาเลขที่ IRG5780002

โครงการ:ทุนพัฒนาศักยภาพการวิจัยเชิงสถาบันของภาควิชาเคมี คณะวิทยาศาสตร์

จุฬาลงกรณ์มหาวิทยาลัย

รายงานสรุปการเงิน

ชื่อหัวหน้าโครงการวิจัยผู้รับทุน รองศาสตราจารย์ ดร.วดีชัย พาราสุข

รายงานในช่วงตั้งแต่วันที่ 1 กันยายน 2559 ถึงวันที่ 31 สิงหาคม 2561

รายจ่าย

หมวด (ตามสัญญา)	รายจ่ายสะสม จากรายงาน ครั้งก่อน	ค่าใช้จ่าย งวดปัจจุบัน	รวมรายจ่าย สะสมจนถึง งวดปัจจุบัน	งบประมาณ รวมทั้งโครงการ	คงเหลือ (หรือเกิน)
1. ค่าตอบแทน	2,572,500	2,741,800	5,314,300	6,000,000	685,700
2. ค่าจ้าง	0	0	0	0	0
3. ค่าวัสดุ	0	0	0	0	0
4. ค่าใช้สอย	450,000	235,700	685,700	0	0
5. ค่าครุภัณฑ์	0	0	0	0	0
6.	0	0	0	0	0
รวม	3,022,500	2,977,500	6,000,000	6,000,000	0

จำนวนเงินที่ได้รับและจำนวนเงินคงเหลือ

จำนวนเงินที่ได้รับ

งวดที่ 1 (สกว. 1)	1,000,000	บาท	เมื่อ	19 ก.ย. 57
งวดที่ 2 (จุฬาฯ 1)	500,000	บาท	เมื่อ	3 ก.พ. 58
งวดที่ 3 (สกว. 2)	1,000,000	บาท	เมื่อ	18 ส.ค. 58
งวดที่ 4 (จุฬาฯ 2)	500,000	บาท	เมื่อ	23 พ.ค. 59
งวดที่ 5 (สกว. 3)	1,000,000	บาท	เมื่อ	29 ก.ย. 59
งวดที่ 6 (คณะฯ 1)	500,000	บาท	เมื่อ	29 ก.ย. 59
งวดที่ 7 (คณะฯ 2)	500,000	บาท	เมื่อ	28 ธ.ค. 59
งวดที่ 8 (จุฬาฯ 3)	500,000	บาท	เมื่อ	31 ก.ค. 60
งวดที่ 9 (คณะฯ 3)	500,000	บาท	เมื่อ	16 ก.พ. 61
ดอกเบี้ย ครั้งที่ 1	1,364.03	บาท	เมื่อ	31 ธ.ค. 57
ดอกเบี้ย ครั้งที่ 2	93.66	บาท	เมื่อ	30 มิ.ย. 58
ดอกเบี้ย ครั้งที่ 3	374.80	บาท	เมื่อ	31 ธ.ค. 58
ดอกเบี้ย ครั้งที่ 4	26.29	บาท	เมื่อ	30 มิ.ย. 59
ดอกเบี้ย ครั้งที่ 5	1,959.48	บาท	เมื่อ	31 ธ.ค. 59
ดอกเบี้ย ครั้งที่ 6	1,106.60	บาท	เมื่อ	30 มิ.ย. 60
ดอกเบี้ย ครั้งที่ 7	75.32	บาท	เมื่อ	31 ธ.ค. 60

รวม

6,005,000.18 บาท ①

		<u>ค่าใช้จ่าย</u>	
งวดที่ 1	เป็นเงิน	1,010,000.00...	บาท
งวดที่ 2	เป็นเงิน	1,322,500.00...	บาท
งวดที่ 3	เป็นเงิน	3,667,500.00	บาท
ฯลฯ			
รวม		6,000,000.00..	บาท ②
จำนวนเงินคงเหลือ ① - ②		5,000.18.	บาท

.....
 ลงนามหัวหน้าโครงการวิจัยผู้รับทุน

.....
 ลงนามเจ้าหน้าที่การเงินโครงการ

No.	Author Names	Publication Title	Journal Name	Year	Volume	Issue	Beginning Page	Ending Page	Article no.	DOI
1	Vongnam, K; Aree, T; Sukwattanasitt, M; Rashatasakhon, P	Aminoquinoline-Salicylaldimine Dyads as Highly Selective Turn-On Fluorescent Sensors for Zinc	CHEMISTRYSELECT	2018	3	12	3495	3499		10.1002/slct.201800155
2	Nonsuwan, P; Puthong, S; Palaga, T; Muangsinn, N	Novel organic/inorganic hybrid flower-like structure of selenium nanoparticles stabilized by pullulan derivatives	CARBOHYDRATE POLYMERS	2018	184		9	19		10.1016/j.carbpol.2017.12.029
3	Kicuntod, J; Sangpheak, K; Mueller, M; Wolschann, P; Viernstein, H; Yanaka, S; Kato, K; Chavasiri, W; Pongsawasdi, P;	Theoretical and Experimental Studies on Inclusion Complexes of Pinostrobin and beta-Cyclodextrins	SCIENTIA PHARMACEUTICA	2018	86	1			UNSP 5	10.3390/scipharm86010005
4	Sichaem, J; Ruksilp, T; Sawasdee, P; Khumkratok, S; Tip-pyang, S	Chemical Constituents of the Stems of <i>Spatholobus parviflorus</i> and Their Cholinesterase	CHEMISTRY OF NATURAL COMPOUNDS	2018	54	2	356	357		10.1007/s10600-018-2344-9
5	Molee, W; Phanumartwiwath, A; Kesornpun, C; Sureram, S; Ngamrojanavanich, N; Ingkaninan, K; Mahidol, C; Ruchirawat, S; Kittakooop, P	Naphthalene Derivatives and Quinones from <i>Ventilago denticulata</i> and Their Nitric Oxide Radical Scavenging, Antioxidant, Cytotoxic, Antibacterial, and Phosphodiesterase Inhibitory	CHEMISTRY & BIODIVERSITY	2018	15	3			e1700537	10.1002/cbdv.201700537
6	Srivarangkul, P; Yuttithamnon, W; Suroengrit, A; Pankaew, S; Hengphasatporn, K; Rungrotmongkol, T;	A novel flavanone derivative inhibits dengue virus fusion and infectivity	ANTIVIRAL RESEARCH	2018	151		27	38		10.1016/j.antiviral.2018.01.010
7	Choodej, S; Pudhom, K; Mitsunaga, T	Inhibition of TNF-alpha-Induced Inflammation by Sesquiterpene Lactones from <i>Saussurea lappa</i> and Semi-Synthetic Analogues	PLANTA MEDICA	2018	84	5	329	335		10.1055/s-0043-120115
8	Kingkaew, K; Ruga, R; Chavasiri, W	6,8-Dibromo- and 6,8-Diiodo-5,7-dihydroxyflavones as New Potent Antibacterial	CHEMISTRY LETTERS	2018	47	3	358	361		10.1246/cl.171089
9	Ekabutr, P; Klinkajon, W; Sangsanoh, P; Chailapakul, O; Niamlang, P;	Electrospinning: a carbonized gold/graphene/PAN nanofiber for high	ANALYTICAL METHODS	2018	10	8	874	883		10.1039/c7ay02880f
10	Khanantong, C; Charoenthai, N; Wacharasindhu, S; Sukwattanasitt, M; Traiphon, N; Traiphon, R	Influences of solvent media on chain organization and thermochromic behaviors of polydiacetylene assemblies prepared from monomer with symmetric alkyl tails	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY	2018	58		258	265		10.1016/j.jiec.2017.09.035
11	Kaewwichit, D; Aksornkitti, V; Rojanathanes, R; Sereemasun, A; Thamyongkit, P	Synthesis and structure-property relationship of lipoic acid-containing porphyrin derivatives for mitochondria-targeting applications	INORGANICA CHIMICA ACTA	2018	471		305	309		10.1016/j.ica.2017.11.020
12	Jeong, Y; Tonga, GY; Duncan, B; Yan, B; Das, R; Sahub, C; Rotello, VM	Solubilization of Hydrophobic Catalysts Using Nanoparticle Hosts	SMALL	2018	14	7			UNSP 1702198	10.1002/sml.201702198
13	Singto, S; Tantayanon, S; Zoto, CA; Connors, RE	Syntheses and photophysical properties of diaminotetraphenylporphyrins and their corresponding polyimides	JOURNAL OF MOLECULAR STRUCTURE	2018	1154		114	130		10.1016/j.molstruc.2017.09.091
14	Sharif, KM; Kulsing, C; da Silva, AI; Marriott, PJ	Second dimension column ensemble pressure tuning in comprehensive two-dimensional gas chromatography	JOURNAL OF CHROMATOGRAPHY A	2018	1536		39	49		10.1016/j.chroma.2017.10.060
15	Verhoog, S; Kee, CW; Wang, YL; Khotavivattana, T; Wilson, TC; Kersemans, V; Smart, S; Tredwell, M;	F-18-Trifluoromethylation of Unmodified Peptides with 5-F-18-(Trifluoromethyl)dibenzothiophenium	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	2018	140	5	1572	1575		10.1021/jacs.7b10227
16	Amornwachirabodee, K; Tantimekin, N; Pan-In, P; Palaga, T; Pienpinijtham, P; Pipattanaboon, C; Sukmanee, T; Ritprajak, P; Charoenpat, P;	Oxidized Carbon Black: Preparation, Characterization and Application in Antibody Delivery across Cell Membrane	SCIENTIFIC REPORTS	2018	8				2489	10.1038/s41598-018-20650-4
17	Pongkitdachoti, U; Unob, F	Simultaneous adsorption of silver nanoparticles and silver ions on large pore mesoporous silica	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2018	6	1	596	603		10.1016/j.jece.2017.12.046

No.	Author Names	Publication Title	Journal Name	Year	Volume	Issue	Beginning Page	Ending Page	Article no.	DOI
18	Charoenkitamorn, K; Tue, PT; Kawai, K; Chailapakul, O; Takamura, Y	Electrochemical Immunoassay Using Open Circuit Potential Detection Labeled by Platinum	SENSORS	2018	18	2			444	10.3390/s18020444
19	Nunthaboot, N; Nueangaudom, A; Lugsanangarm, K; Pianwanit, S; Kokpol,	Physical quantity of residue electrostatic energy in flavin mononucleotide binding protein dimer	COMPUTATIONAL BIOLOGY AND CHEMISTRY	2018	72		96	104		10.1016/j.compbiolchem.2018.01.001
20	Phasuk, A; Srisantitham, S; Tuntulani, T; Anutrasakda, W	Facile synthesis of magnetic hydroxyapatite-supported nickel oxide nanocomposite and its dye adsorption characteristics	ADSORPTION-JOURNAL OF THE INTERNATIONAL ADSORPTION SOCIETY	2018	24	2	157	167		10.1007/s10450-017-9931-0
21	Chaiseeda, K; Chantharadet, L; Chavasiri, W	Utilization of hexabromoacetone for protection of alcohols and aldehydes and deprotection of acetals, ketals, and oximes under UV irradiation	RESEARCH ON CHEMICAL INTERMEDIATES	2018	44	2	1305	1323		10.1007/s11164-017-3168-0
22	Thompho, S; Saengsawang, O; Rungrotmongkol, T; Kungwan, N;	Structure and electronic properties of deformed single-walled carbon nanotubes: quantum	STRUCTURAL CHEMISTRY	2018	29	1	39	47		10.1007/s11224-017-0999-7
23	Luesakul, U; Puthong, S; Neamati, N; Muangsins, N	pH-responsive selenium nanoparticles stabilized by folate-chitosan delivering doxorubicin for overcoming drug-resistant cancer cells	CARBOHYDRATE POLYMERS	2018	181		841	850		10.1016/j.carbpol.2017.11.068
24	Yakoh, A; Rattanarat, P; Siangproh, W; Chailapakul, O	Simple and selective paper-based colorimetric sensor for determination of chloride ion in environmental samples using label-free silver	TALANTA	2018	178		134	140		10.1016/j.talanta.2017.09.013
25	Boonmee, C; Promarak, V; Tuntulani, T; Ngeontae, W	Cysteamine-capped copper nanoclusters as a highly selective turn-on fluorescent assay for the detection of aluminum ions	TALANTA	2018	178		796	804		10.1016/j.talanta.2017.10.006
26	Panraksa, Y; Siangproh, W; Khampieng, T; Chailapakul, O; Apilux, A	Paper-based amperometric sensor for determination of acetylcholinesterase using screen-printed graphene electrode	TALANTA	2018	178		1017	1023		10.1016/j.talanta.2017.08.096
27	Vilaivan, T	Fluorogenic PNA probes	BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY	2018	14		253	281		10.3762/bjoc.14.17
28	Boonamnaj, P; Sompornpisut, P	Insight into the Role of the Hv1 C-Terminal Domain in Dimer Stabilization	JOURNAL OF PHYSICAL CHEMISTRY B	2018	122	3	1037	1048		10.1021/acs.jpcb.7b08669
29	Prabphal, J; Vilaivan, T; Praneenararat, T	Fabrication of a Paper-Based Turn-Off Fluorescence Sensor for Cu2+ Ion from a	CHEMISTRYSELECT	2018	3	3	894	899		10.1002/slct.201702382
30	Preechakasedkit, P; Osada, K; Katayama, Y; Ruecha, N; Suzuki, K; Chailapakul, O; Citterio, D	Gold nanoparticle core-europium(III) chelate fluorophore-doped silica shell hybrid nanocomposites for the lateral flow immunoassay of human thyroid stimulating	ANALYST	2018	143	2	564	570		10.1039/c7an01799e
31	Park, Y; Nim-anussornkul, D; Vilaivan, T; Morii, T; Kim, BH	Facile conversion of ATP-binding RNA aptamer to quencher-free molecular aptamer beacon	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2018	28	2	77	80		10.1016/j.bmcl.2017.12.008
32	Lertvachirapaiboon, C; Baba, A; Ekgasit, S; Shinbo, K; Kato, K; Kaneko, F	Transmission surface plasmon resonance techniques and their potential biosensor	BIOSENSORS & BIOELECTRONICS	2018	99		399	415		10.1016/j.bios.2017.07.069
33	Taboonpong, P; Chavasiri, W	CuCl2/[hmim]Br: A new recyclable catalytic system for aromatization of cyclic dienes	CATALYSIS COMMUNICATIONS	2018	104		9	12		10.1016/j.catcom.2017.10.009
34	Kumar, S; Sharma, RP; Venugopalan, P; Aree, T	Synthesis, characterization and single crystal X-ray structure determination of three cadmium(II) complexes derived from picric acid and p-nitrobenzoic acid in the presence and absence of nitrogen donor ligand N-	POLYHEDRON	2018	139		178	188		10.1016/j.poly.2017.09.053
35	Solic, I; Seankongsuk, P; Loh, JK; Vilaivan, T; Bates, RW	Scandium as a pre-catalyst for the deoxygenative allylation of benzylic alcohols	ORGANIC & BIOMOLECULAR CHEMISTRY	2018	16	1	119	123		10.1039/c7ob02219k

No.	Author Names	Publication Title	Journal Name	Year	Volume	Issue	Beginning Page	Ending Page	Article no.	DOI
36	Ekabutr, P; Ariyathanakul, T; Chaiyo, S; Niamlang, P; Rattanaveeranon, S; Chailapakul, O; Supaphol, P	Carbonized electrospun polyvinylpyrrolidone/metal hybrid nanofiber composites for electrochemical applications	JOURNAL OF APPLIED POLYMER SCIENCE	2018	135	1			45639	10.1002/app.45639
37	Srisa-Art, M; Boehle, KE; Geiss, BJ; Henry, CS	Highly Sensitive Detection of Salmonella typhimurium Using a Colorimetric Paper-Based Analytical Device Coupled with Immunomagnetic	ANALYTICAL CHEMISTRY	2018	90	1	1035	1043		10.1021/acs.analchem.7b04628
38	Kaennakam, S; Rassamee, K; Siripong, P; Tip-pyang, S	Catomentosaponin, a new triterpene saponin from the roots of <i>Catunaregam tomentosa</i>	NATURAL PRODUCT RESEARCH	2018	32	13	1499	1505		10.1080/14786419.2017.1385009
39	Godoy, DJD; Banlunara, W; Jaroenporn, S; Sangvanich, P; Thunyakitpisal, P	Collagen and mPCL-TCP scaffolds induced differential bone regeneration in ovary-intact and ovariectomized rats	BIO-MEDICAL MATERIALS AND ENGINEERING	2018	29	3	389	399		10.3233/BME-181733
40	Sowanpreecha, R; Kanchanabanca, C; Sangvanich, P; Rerngsamran, P	<i>Bacillus subtilis</i> N3 as a Biocontrol Agent for <i>Curvularia lunata</i> and its Antifungal Protein	INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY	2018	20	3	531	538		10.17957/IJAB/15.0511
41	Samutprasert, P; Chiablaem, K; Teeraseranee, C; Phaiyarin, P; Pukfukdee, P; Pienpinijtham, P; Svasti, J;	Epigallocatechin gallate-zinc oxide co-crystalline nanoparticles as an anticancer drug that is non-toxic to normal cells	RSC ADVANCES	2018	8	14	7369	7376		10.1039/c7ra10997k
42	Atikarnsakul, U; Varanusupakul, P; Alahmad, W	Isolation of Chromium(VI) from Aqueous Solution by Electromembrane Extraction	ANALYTICAL LETTERS	2018	51	7	983	997		10.1080/00032719.2017.1370596
43	Mahalapbutr, P; Nutho, B; Wolschann, P; Chavasiri, W; Kungwan, N; Rungrotmongkol, T	Molecular insights into inclusion complexes of mansonone E and H enantiomers with various beta-cyclodextrins	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	2018	79		72	80		10.1016/j.jmgm.2017.11.006
44	Ishii, M; Preechakasedkit, P; Yamada, K; Chailapakul, O; Suzuki, K; Citterio, D	Wax-Assisted One-Step Enzyme-Linked Immunosorbent Assay on Lateral Flow Test	ANALYTICAL SCIENCES	2018	34	1	51	56		
45	Sununta, S; Rattananarat, P; Challapakul, O; Praphairaksit, N	Microfluidic Paper-based Analytical Devices for Determination of Creatinine in Urine Samples	ANALYTICAL SCIENCES	2018	34	1	109	113		
46	Surapinit, S; Sichaem, J; Tip-pyang, S	Non-redox Lipoxygenase Inhibitors from <i>Nauclea orientalis</i>	NATURAL PRODUCT COMMUNICATIONS	2018	13	1	33	36		
47	Ajavakom, V; Yutthaseri, T; Chantanatrakul, R; Suksamrarn, A;	Curcuminoids in Multi-Component Synthesis	JOURNAL OF HETEROCYCLIC CHEMISTRY	2018	55	1	13	20		10.1002/jhet.3005
48	Khunsuk, PO; Chawalitpong, S; Sawutdeechaikul, P; Palaga, T; Hoven, VP	Gold Nanorods Stabilized by Biocompatible and Multifunctional Zwitterionic Copolymer for Synergistic Cancer Therapy	MOLECULAR PHARMACEUTICS	2018	15	1	164	174		10.1021/acs.molpharmaceut.7b00780
49	Do, LTM; Aree, T; Siripong, P; Vo, NT; Nguyen, TTA; Nguyen, PKP; Tip-pyang, S	Cytotoxic Flavones from the Stem Bark of <i>Bougainvillea spectabilis</i> Willd	PLANTA MEDICA	2018	84	2	129	134		10.1055/s-0043-118102
50	Kumar, S; Sharma, RP; Venugopalan, P; Gondil, VS; Chhibber, S; Aree, T; Witwicki, M; Ferretti, V	Hybrid inorganic-organic complexes: Synthesis, spectroscopic characterization, single crystal X-ray structure determination and antimicrobial activities of three copper(II)-diethylenetriamine-p-nitrobenzoate complexes	INORGANICA CHIMICA ACTA	2018	469		288	297		10.1016/j.ica.2017.09.032
51	Poomsuk, N; Remsungnen, T; Vilaivan, T; Hunt, AJ; Siriwigong, K	Conformational and energetic properties of pyrrolidinyl PNA-DNA duplexes: A molecular dynamics simulation	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2017	1122		27	33		10.1016/j.comptc.2017.10.017
52	Rattanangkool, E; Sukwattanasinitt, M; Wacharasindhu, S	Organocatalytic Visible Light Enabled SNAr of Heterocyclic Thiols: A Metal-Free Approach to 2-Aminobenzoxazoles and 4-Aminoquinazolines	JOURNAL OF ORGANIC CHEMISTRY	2017	82	24	13256	13262		10.1021/acs.joc.7b02357

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53	Nim-anussornkul, D; Vilaivan, T	Synthesis and optical properties of pyrrolidinyl peptide nucleic acid bearing a base discriminating fluorescence nucleobase 8-(pyrene-1-yl)-ethynyladenine	BIOORGANIC & MEDICINAL CHEMISTRY	2017	25	24	6388	6397		10.1016/j.bmc.2017.10.008
54	Nantaphol, S; Watanabe, T; Nomura, N; Siangproh, W; Chailapakul, O; Einaga, Y	Bimetallic Pt-Au nanocatalysts electrochemically deposited on boron-doped diamond electrodes for nonenzymatic glucose detection	BIOSENSORS & BIOELECTRONICS	2017	98		76	82		10.1016/j.bios.2017.06.034
55	Majumdar, R; Tantayanon, S; Bag, BG	Synthesis of palladium nanoparticles with leaf extract of Chrysophyllum cainito (Star apple) and their applications as efficient catalyst for C-C coupling and reduction reactions	INTERNATIONAL NANO LETTERS	2017	7	4	267	274		10.1007/s40089-017-0220-4
56	Mahalapbutr, P; Chusuth, P; Kungwan, N; Chavasiri, W; Wolschann, P; Rungrotmongkol, T	Molecular recognition of naphthoquinone-containing compounds against human DNA topoisomerase II alpha ATPase domain: A	JOURNAL OF MOLECULAR LIQUIDS	2017	247		374	385		10.1016/j.molliq.2017.10.021
57	Kuamit, T; Ratanasak, M; Rungnim, C; Parasuk, V	Effects of shape, size, and pyrene doping on electronic properties of graphene nanoflakes	JOURNAL OF MOLECULAR MODELING	2017	23	12			355	10.1007/s00894-017-3521-7
58	Jirasirichote, A; Punrat, E; Suea-Ngam, A; Chailapakul, O; Chuanuwatanakul, S	Voltammetric detection of carbofuran determination using screen-printed carbon electrodes modified with gold nanoparticles and	TALANTA	2017	175		331	337		10.1016/j.talanta.2017.07.050
59	Thepphankulngarm, N; Wonganan, P; Sapcharoenkun, C; Tuntulani, T; Leeladee, P	Combining vitamin B-12 and cisplatin-loaded porous silica nanoparticles via coordination: a facile approach to prepare a targeted drug	NEW JOURNAL OF CHEMISTRY	2017	41	22	13823	13829		10.1039/c7nj02754k
60	Jiraroj, D; Tungasmita, S; Tungasmita, DN	Zeolite A-polypropylene and silver-zeolite A-polypropylene composite films for antibacterial and breathable applications	JOURNAL OF APPLIED POLYMER SCIENCE	2017	134	43			45450	10.1002/app.45450
61	Solonenko, D; Gasiorowski, J; Apaydin, D; Oppelt, K; Nuss, M; Keawsongsaeng, W; Salvan, G; Hingerl, K; Sariciftci, NS;	Doping-Induced Polaron Formation and Solid-State Polymerization in Benzoporphyrin-Oligothiophene Conjugated Systems	JOURNAL OF PHYSICAL CHEMISTRY C	2017	121	44	24397	24407		10.1021/acs.jpcc.7b06771
62	Pangdam, A; Nootchanat, S; Lertvachirapaiboon, C; Ishikawa, R;	Investigation of Gold Quantum Dot Enhanced Organic Thin Film Solar Cells	PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION	2017	34	11			1700133	10.1002/ppsc.201700133
63	Chan, CH; Fellows, CM; Hess, M; Hiorns, RC; Hoven, VP; Russell, GT; dos Santos,	The Contribution of IUPAC to Polymer Science Education	JOURNAL OF CHEMICAL EDUCATION	2017	94	11	1618	1628		10.1021/acs.jchemed.6b00800
64	Graisuwan, W; Puthong, S; Zhao, H; Kiatkarmjornwong, S; Theato, P; Hoven,	Thermoresponsive and Active Functional Fiber Mats for Cultured Cell Recovery	BIOMACROMOLECULES	2017	18	11	3714	3725		10.1021/acs.biomac.7b00382
65	Pisuchpen, T; Keaw-on, N; Kitikulvarakorn, K; Kusonsong, S; Sritananant, Y; Supaphol, P; Hoven, VP	Electrospinning and solid state polymerization: A simple and versatile route to conducting PEDOT composite films	EUROPEAN POLYMER JOURNAL	2017	96		452	462		10.1016/j.eurpolymj.2017.09.033
66	Siangproh, W; Somboonsuk, T; Chailapakul, O; Songsrirote, K	Novel colorimetric assay for paraquat detection on-silica bead using negatively charged silver nanoparticles	TALANTA	2017	174		448	453		10.1016/j.talanta.2017.06.045
67	Toworakajohnkun, N; Sukwattanasinitt, M; Rashatasakhon, P	N-Bromosuccinimide mediated synthesis of triazatruxenes from indoles	TETRAHEDRON LETTERS	2017	58	43	4149	4152		10.1016/j.tetlet.2017.09.061
68	Suroengrit, A; Yuttithamnon, W; Srivarangkul, P; Pankaew, S; Kingkaew,	Halogenated Chrysins Inhibit Dengue and Zika Virus Infectivity	SCIENTIFIC REPORTS	2017	7				13696	10.1038/s41598-017-14121-5
69	Ruecha, N; Chailapakul, O; Suzuki, K; Citterio, D	Fully Inkjet-Printed Paper-Based Potentiometric Ion-Sensing Devices	ANALYTICAL CHEMISTRY	2017	89	19	10608	10616		10.1021/acs.analchem.7b03177

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70	Thanetnit, OA; Tantayanon, S	Synthesis of Cationic Polymer Coated Magnetite Nanoparticles Based on Poly(maleic anhydride-alt-1-octadecene)	CHIANG MAI JOURNAL OF SCIENCE	2017	44	4	1487	1496		
71	Chaiseeda, K; Nishimura, S; Ebitani, K	Gold Nanoparticles Supported on Alumina as a Catalyst for Surface Plasmon-Enhanced Selective Reductions of Nitrobenzene	ACS OMEGA	2017	2	10	7066	7070		10.1021/acsomega.7b01248
72	Lugsanangarm, K; Nueangaudom, A; Pianwanit, S; Kokpol, S; Nunthaboot, N; Tanaka, F; Taniguchi, S; Chosrowjan, H	Dynamics of the protein structure of T169S pyranose 2-oxidase in solution: Molecular dynamics simulation	PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS	2017	85	10	1913	1924		10.1002/prot.25345
73	Pongkai, P; Saisavoe, T; Sangtanoo, P; Sangvanich, P; Karnchanatat, A	Effects of protein hydrolysate from chicken feather meal on tyrosinase activity and melanin formation in B16F10 murine melanoma cells	FOOD SCIENCE AND BIOTECHNOLOGY	2017	26	5	1199	1208		10.1007/s10068-017-0186-z
74	Laksee, S; Puthong, S; Teerawatananon, T; Palaga, T; Muangsina, N	Highly efficient and facile fabrication of monodispersed Au nanoparticles using pullulan and their application as anticancer drug carriers	CARBOHYDRATE POLYMERS	2017	173		178	191		10.1016/j.carbpol.2017.05.101
75	Lertvachirapaiboon, C; Baba, A; Ekgasit, S; Shinbo, K; Kato, K; Kaneko, F	Transmission surface plasmon resonance imaging of silver nanoprisms enhanced propagating surface plasmon resonance on a metallic grating	SENSORS AND ACTUATORS B-CHEMICAL	2017	249		39	43		10.1016/j.snb.2017.04.037
76	Duong, TH; Bui, XH; Le Pogam, P; Nguyen, HH; Tran, TT; Nguyen, TAT;	Two novel diterpenes from the roots of <i>Phyllanthus acidus</i> (L.) Skeel	TETRAHEDRON	2017	73	38	5634	5638		10.1016/j.tet.2017.07.021
77	Chaiendoo, K; Tuntulani, T; Ngeontae, W	A paper-based ferrous ion sensor fabricated from an ion exchange polymeric membrane coated on a silver nanocluster-impregnated filter paper	MATERIALS CHEMISTRY AND PHYSICS	2017	199		272	279		10.1016/j.matchemphys.2017.07.013
78	Wong-u-ra, O; Ekgasit, S; Wongravee, K	Phase transferring of silver nanoparticles to organic solvents using modified graphene oxide	MATERIALS CHEMISTRY AND PHYSICS	2017	199		348	355		10.1016/j.matchemphys.2017.07.014
79	Pangdam, A; Wongravee, K; Nootchanat, S; Ekgasit, S	Urchin-like gold microstructures with tunable length of nanothorns	MATERIALS & DESIGN	2017	130		140	148		10.1016/j.matdes.2017.05.008
80	Saetan, T; Lertvachirapaiboon, C; Ekgasit, S; Sukwattanasinitt, M; Wacharasindhu, S	Palladium Nanoparticles Immobilized on Individual Calcium Carbonate Plates Derived from Mussel Shell Waste: An Ecofriendly Catalyst for the Copper-Free Sonogashira Coupling Reaction	CHEMISTRY-AN ASIAN JOURNAL	2017	12	17	2221	2230		10.1002/asia.201700537
81	Kumar, S; Sharma, RP; Venugopalan, P; Aree, T	Effect of differently substituted methoxybenzoates on the supramolecular assemblies of three [Cu(N-hyden)(2)](o-/m-/p-methoxybenzoate)(2) complexes: Synthesis, spectroscopic characterization and single crystal	POLYHEDRON	2017	133		213	221		10.1016/j.poly.2017.05.021
82	Srisurichan, S; Piapukiew, J; Puthong, S; Pornpakakul, S	Lanostane triterpenoids, spiro-astraodoric acid, and astraodoric acids E and F, from the edible mushroom <i>Astraeus odoratus</i>	PHYTOCHEMISTRY LETTERS	2017	21		78	83		10.1016/j.phytol.2017.05.020
83	Pansuwan, H; Dittmangklo, B; Vilaivan, C; Jiangchareon, B; Pan-In, P; Wanichwecharungruang, S; Palaga, T;	Hydrophilic and Cell-Penetrable Pyrrolidinyl Peptide Nucleic Acid via Post-synthetic Modification with Hydrophilic Side Chains	BIOCONJUGATE CHEMISTRY	2017	28	9	2284	2292		10.1021/acs.bioconjchem.7b00308
84	Boonsri, M; Vongnam, K; Namuangruk, S; Sukwattanasinitt, M; Rashatasakhon, P	Pyrenyl benzimidazole-isoquinolinones: Aggregation-induced emission enhancement property and application as TNT fluorescent	SENSORS AND ACTUATORS B-CHEMICAL	2017	248		665	672		10.1016/j.snb.2017.03.170
85	Noree, S; Tangpasuthadol, V; Kiatkamjornwong, S; Hoven, VP	Cascade post-polymerization modification of single pentafluorophenyl ester-bearing homopolymer as a facile route to redox-	JOURNAL OF COLLOID AND INTERFACE SCIENCE	2017	501		94	102		10.1016/j.jcis.2017.04.030

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86	Sianglam, P; Kulchat, S; Tuntulani, T; Ngeontae, W	A circular dichroism sensor for selective detection of Cd ²⁺ and S ²⁻ based on the in-situ generation of chiral CdS quantum dots	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR	2017	183		408	416		10.1016/j.saa.2017.04.071
87	Prabpal, J; Vilaivan, T; Praneenarat, T	Paper-Based Heavy Metal Sensors from the Concise Synthesis of an Anionic Porphyrin: A Practical Application of Organic Synthesis to Environmental Chemistry	JOURNAL OF CHEMICAL EDUCATION	2017	94	8	1137	1142		10.1021/acs.jchemed.6b00943
88	Kim, HK; Hairani, R; Jeong, H; Jeong, MG; Chavasiri, W; Hwang, ES	CBMG, a novel derivative of mansonone G suppresses adipocyte differentiation via suppression of PPAR gamma activity	CHEMICO-BIOLOGICAL INTERACTIONS	2017	273		160	170		10.1016/j.cbi.2017.06.017
89	Khonkayan, K; Sansuk, S; Sriaranai, S; Tuntulani, T; Saiyasombat, C; Busayaporn, W; Ngeontae, W	New approach for detection of chromate ion by preconcentration with mixed metal hydroxide coupled with fluorescence sensing of copper nanoclusters	MICROCHIMICA ACTA	2017	184	8	2965	2974		10.1007/s00604-017-2320-2
90	Ariyageadsakul, P; Vchirawongkwin, V; Kritayakornupong, C	Role and impact of differently charged polypyrrole on formaldehyde sensing behavior	SYNTHETIC METALS	2017	230		27	38		10.1016/j.synthmet.2017.05.014
91	Sahub, C; Tumcharern, G; Chirawatkul, P; Ruangpornvisuti, V; Ekgasit, S; Wanichweacharungruang, S; Tuntulani,	Self-assembly of Gd ³⁺ /SDS/HEPES complex and curcumin entrapment for enhanced stability, fluorescence image in cellular system	COLLOIDS AND SURFACES B-BIOINTERFACES	2017	156		254	261		10.1016/j.colsurfb.2017.05.026
92	Panta, R; Ruangpornvisuti, V	Adsorption of hydrogen molecule on noble metal doped on oxygen-vacancy defect of anatase TiO ₂ (101) surface: Periodic DFT study	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2017	42	30	19106	19113		10.1016/j.ijhydene.2017.04.251
93	Gatemala, H; Ekgasit, S; Pienpinijtham, P	3D structure-preserving galvanic replacement to create hollow Au microstructures	CRYSTENGCOMM	2017	19	27	3808	3816		10.1039/c7ce00484b
94	Sae-Ung, P; Kolewe, KW; Bai, Y; Rice, EW; Schiffman, JD; Emrick, T; Hoven, VP	Antifouling Stripes Prepared from Clickable Zwitterionic Copolymers	LANGMUIR	2017	33	28	7028	7035		10.1021/acs.langmuir.7b01431
95	Kruawan, S; Ratanasak, M; Chanajaree, R; Rungrotmongkol, T; Saengsawang, O; Parasuk, V; Kungwan, N; Hannongbua, S	Ethylene insertion in the presence of new alkoxyisilane electron donors for Ziegler-Natta catalyzed polyethylene	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2017	1112		10	19		10.1016/j.comptc.2017.04.002
96	Nootchanat, S; Lertvachirapaiboon, C; Amornkitbamrung, V; Uppachai, P; Ekgasit, S; Wongravee, K	Shape evolution of 3D flower-like gold microstructures from gold nanosheets via oriented attachment	MATERIALS & DESIGN	2017	125		158	166		10.1016/j.matdes.2017.04.012
97	Jiang, KM; Luesakul, U; Zhao, SY; An, K; Muangsin, N; Neamati, N; Jin, Y; Lin, J	Tautomeric-Dependent Lactam Cycloaddition with Nitrile Oxide: Facile Synthesis of 1,2,4-Oxadiazole[4,5- α] indolone Derivatives	ACS OMEGA	2017	2	7	3123	3134		10.1021/acsomega.7b00490
98	Songsiripraduboon, S; Kladkaew, S; Trairatvorakul, C; Sangvanich, P; Soontornvipart, K; Banlunara, W;	Stimulation of Dentin Regeneration by Using Acemannan in Teeth with Lipopolysaccharide-induced Pulp Inflammation	JOURNAL OF ENDODONTICS	2017	43	7	1097	1103		10.1016/j.joen.2017.01.037
99	Songkhao, J; Banerjee, R; Debnath, S; Narasimhan, S; Wannaprom, N; Vanalabhpattana, P; Seriani, N; Gebauer,	Structure-property relationship of pi-extended boron-dipyrromethene derivatives towards optoelectronic applications	DYES AND PIGMENTS	2017	142		558	571		10.1016/j.dyepig.2017.03.050
100	Srivilai, J; Rabgay, K; Khorana, N; Waranuch, N; Nuengchamnong, N; Wisuitiprot, W; Chuprajob, T;	Anti-androgenic curcumin analogues as steroid 5- α reductase inhibitors	MEDICINAL CHEMISTRY RESEARCH	2017	26	7	1550	1556		10.1007/s00044-017-1869-y
101	Gatemala, H; Ekgasit, S; Wongravee, K	High purity silver microcrystals recovered from silver wastes by eco-friendly process using hydrogen peroxide	CHEMOSPHERE	2017	178		249	258		10.1016/j.chemosphere.2017.03.051

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102	Ngamdee, K; Kulchat, S; Tuntulani, T; Ngeontae, W	Fluorescence sensor based on D-penicillamine capped cadmium sulfide quantum dots for the detection of cysteamine	JOURNAL OF LUMINESCENCE	2017	187		260	268		10.1016/j.jlumin.2017.03.016
103	Paisuwan, W; Chantra, T; Rashatasakhon, P; Sukwattanasinitt, M;	Direct synthesis of oxazolidin-2-ones from tert-butyl allylcarbamate via halo-induced cyclisation	TETRAHEDRON	2017	73	24	3363	3367		10.1016/j.tet.2017.04.063
104	Siridechakorn, I; Yue, ZW; Mittraphab, Y; Lei, XG; Pudhom, K	Identification of spirobisnaphthalene derivatives with anti-tumor activities from the endophytic fungus Rhytidhysterion rufulum AS21B	BIOORGANIC & MEDICINAL CHEMISTRY	2017	25	11	2878	2882		10.1016/j.bmc.2017.02.054
105	Kanokudom, S; Vilaivan, T; Wikan, N; Thepparit, C; Smith, DR; Assavalapsakul,	miR-21 promotes dengue virus serotype 2 replication in HepG2 cells	ANTIVIRAL RESEARCH	2017	142		169	177		10.1016/j.antiviral.2017.03.020
106	Punrat, E; Tutiyaarn, P; Chuanuwatanakul, S; Chailapakul, O	Determination of nickel(II) by ion-transfer to hydroxide medium using sequential injection-electrochemical analysis (SIECA)	TALANTA	2017	168		286	290		10.1016/j.talanta.2017.03.062
107	Kaewtong, C; Kampaengsri, S; Singhana, B; Pulpoka, B	Highly selective detection of Au3+ using rhodamine-based modified polyacrylic acid (PAA)-	DYES AND PIGMENTS	2017	141		277	285		10.1016/j.dyepig.2017.02.033
108	Thanayupong, E; Suttisintong, K; Sukwattanasinitt, M; Niamnont, N	Turn-on fluorescent sensor for the detection of cyanide based on a novel dicyanovinyl phenylacetylene	NEW JOURNAL OF CHEMISTRY	2017	41	10	4058	4064		10.1039/c6nj03794a
109	Chokbunpam, T; Fritzsche, S; Caro, J; Chmelik, C; Janke, W; Hannongbua, S	Importance of ZIF-90 Lattice Flexibility on Diffusion, Permeation, and Lattice Structure for an adsorbed H-2/CH4 Gas Mixture: A Re-Examination by Gibbs Ensemble Monte Carlo and Molecular Dynamics Simulations	JOURNAL OF PHYSICAL CHEMISTRY C	2017	121	19	10455	10462		10.1021/acs.jpcc.7b02602
110	Teengam, P; Siangproh, W; Tuantranont, A; Vilaivan, T; Chailapakul, O; Henry, CS	Multiplex Paper-Based Colorimetric DNA Sensor Using Pyrrolidinyl Peptide Nucleic Acid-Induced AgNPs Aggregation for Detecting MERS-CoV, MTB, and HPV Oligonucleotides	ANALYTICAL CHEMISTRY	2017	89	10	5428	5435		10.1021/acs.analchem.7b00255
111	Nunthaboot, N; Lugsanangarm, K; Nueangaudom, A; Pianwanit, S; Kokpol, S; Tanaka, F; Taniguchi, S; Chosrowjan, H; Nakanishi, T; Kitamura, M	Photoinduced electron transfer from aromatic amino acids to the excited isoalloxazine in single mutated flavin mononucleotide binding proteins: Effect of the dimer formation on the rate and the electrostatic energy inside the proteins	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2017	1108		1	9		10.1016/j.comptc.2017.03.005
112	Promchat, A; Rashatasakhon, P; Sukwattanasinitt, M	A novel indolium salt as a highly sensitive and selective fluorescent sensor for cyanide detection in water	JOURNAL OF HAZARDOUS MATERIALS	2017	329		255	261		10.1016/j.jhazmat.2017.01.024
113	Kustiawan, PM; Lirdprapamongkol, K; Palaga, T; Puthong, S; Phuwapraisirisan, P; Svasti, J; Chanchao, C	Molecular mechanism of cardol, isolated from Trigona incisa stingless bee propolis, induced apoptosis in the SW620 human colorectal cancer	BMC PHARMACOLOGY & TOXICOLOGY	2017	18				32	10.1186/s40360-017-0139-4
114	Jaturakan, O; Dissayabuttra, T; Chaibabutr, N; Kijawornrat, A; Tosukhowong, P; Rungsipipat, A;	Combination of vitamin E and vitamin C alleviates renal function in hyperoxaluric rats via antioxidant activity	JOURNAL OF VETERINARY MEDICAL SCIENCE	2017	79	5	896	903		10.1292/jvms.17-0083
115	Komenek, S; Luesakul, U; Ekgasit, S; Vilaivan, T; Praphairaksit, N; Puthong, S;	Nanogold-Gallate Chitosan-Targeted Pulmonary Delivery for Treatment of Lung Cancer	AAPS PHARMSCITECH	2017	18	4	1104	1115		10.1208/s12249-016-0644-6
116	Seankongsuk, P; Vchirawongkwin, V; Bates, RW; Padungros, P; Vilaivan, T	Enantioselective Synthesis of (2S,3S)-epi-Oxetin and Its Incorporation into Conformationally Constrained Pyrrolidinyl PNA with an Oxetane	ASIAN JOURNAL OF ORGANIC CHEMISTRY	2017	6	5	551	560		10.1002/ajoc.201600575

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117	Duong, TH; Bui, LCH; Chavasiri, W; Chollet-Krugler, M; Nguyen, VK; Thi, HTN; Hansen, PE; Le Pogam, P; Thus, H;	New erythritol derivatives from the fertile form of <i>Rocella montagnei</i>	PHYTOCHEMISTRY	2017	137		156	164		10.1016/j.phytochem.2017.02.012
118	Boontom, S; Boonkitpatarakul, K; Sukwattanasinitt, M; Niamnont, N	Highly selective detection of Cu ²⁺ based on a thiosemicarbazone triphenylacetylene	TETRAHEDRON	2017	73	17	2483	2487		10.1016/j.tet.2017.03.044
119	Nootchanat, S; Pangdam, A; Ishikawa, R; Wongravee, K; Shinbo, K; Kato, K; Kaneko, F; Ekgasit, S; Baba, A	Grating-coupled surface plasmon resonance enhanced organic photovoltaic devices induced by Blu-ray disc recordable and Blu-ray disc	NANOSCALE	2017	9	15	4963	4971		10.1039/c6nr09951c
120	Sharma, RP; Kumar, S; Kumar, J; Venugopalan, P; Aree, T	First structural evidence of biologically important dinegative ferulate ion: Synthesis, characterization, single crystal X-ray structure and DFT calculation of [Cu(en)(2)(H ₂ O)(2)](fer)	POLYHEDRON	2017	126		245	251		10.1016/j.poly.2017.01.004
121	Nantaphol, S; Channon, RB; Kondo, T; Siangproh, W; Chailapakul, O; Henry, CS	Boron Doped Diamond Paste Electrodes for Microfluidic Paper-Based Analytical Devices	ANALYTICAL CHEMISTRY	2017	89	7	4100	4107		10.1021/acs.analchem.6b05042
122	Ruengpirasiri, P; Punrat, E; Chailapakul, O; Chuanuwatanakul, S	Graphene Oxide-Modified Electrode Coated with in-situ Antimony Film for the Simultaneous Determination of Heavy Metals by Sequential Injection-Anodic Stripping Voltammetry	ELECTROANALYSIS	2017	29	4	1022	1030		10.1002/elan.201600568
123	Khuntawee, W; Kunaseth, M; Rungnim, C; Intagorn, S; Wolschann, P; Kungwan, N; Rungrotmongkol, T; Hannongbua, S	Comparison of Implicit and Explicit Solvation Models for Iota-Cyclodextrin Conformation Analysis from Replica Exchange Molecular	JOURNAL OF CHEMICAL INFORMATION AND MODELING	2017	57	4	778	786		10.1021/acs.jcim.6b00595
124	Chimpibul, W; Rengpipat, S; Wanichwecharungruang, S	Water-dispersible microparticles of polyunsaturated oils	INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY	2017	52	4	1057	1063		10.1111/ijfs.13372
125	Chanhom, P; Charoenlap, N; Tomapatanaget, B; Insin, N	Colloidal titania-silica-iron oxide nanocomposites and the effect from silica thickness on the photocatalytic and bactericidal activities	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	427		54	59		10.1016/j.jmmm.2016.10.123
126	Injumba, W; Ritprajak, P; Insin, N	Size-dependent cytotoxicity and inflammatory responses of PEGylated silica-iron oxide nanocomposite size series	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	427		60	66		10.1016/j.jmmm.2016.11.015
127	Ajkidkarn, P; Ritprajak, P; Injumba, W; Porntaveetus, T; Insin, N	Synthesis, characterization, drug release and transdermal delivery studies of magnetic nanocubes coated with biodegradable poly(2-(dimethyl amino) ethyl methacrylate)	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2017	427		235	240		10.1016/j.jmmm.2016.11.020
128	Mehmeti, E; Stankovic, DM; Chaiyo, S; Zavasnik, J; Zagar, K; Kalcher, K	Wiring of glucose oxidase with graphene nanoribbons: an electrochemical third generation	MICROCHIMICA ACTA	2017	184	4	1127	1134		10.1007/s00604-017-2115-5
129	Thunyakitpisal, P; Ruangpornvisuti, V; Kengkwasing, P; Chokboribal, J; Sangvanich, P	Acemannan increases NF-kappa B/DNA binding and IL-6/-8 expression by selectively binding Toll-like receptor-5 in human gingival fibroblasts	CARBOHYDRATE POLYMERS	2017	161		149	157		10.1016/j.carbpol.2016.12.034
130	Akkarachanchainon, N; Rattanawaleedirojn, P; Chailapakul, O; Rodthongkum, N	Hydrophilic graphene surface prepared by electrochemically reduced micellar graphene oxide as a platform for electrochemical sensor	TALANTA	2017	165		692	701		10.1016/j.talanta.2016.12.092
131	Meksiarun, P; Ishigaki, M; Huck-Pezzei, VAC; Huck, CW; Wongravee, K; Sato, H; Ozaki, Y	Comparison of multivariate analysis methods for extracting the paraffin component from the paraffin-embedded cancer tissue spectra for	SCIENTIFIC REPORTS	2017	7				44890	10.1038/srep44890
132	Ruecha, N; Lee, J; Chae, H; Cheong, H; Soum, V; Preechakasedkit, P; Chailapakul, O; Tanev, G; Madsen, J;	Paper-Based Digital Microfluidic Chip for Multiple Electrochemical Assay Operated by a Wireless Portable Control System	ADVANCED MATERIALS TECHNOLOGIES	2017	2	3			1600267	10.1002/admt.201600267

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133	Krappitz, T; Feibusch, P; Aroonsirichock, C; Hoven, VP; Theato, P	Synthesis of Poly(glycidyl 2-ylidene-acetate) and Functionalization by Nucleophilic Ring-Opening Reactions	MACROMOLECULES	2017	50	4	1415	1421		10.1021/acs.macromol.6b02465
134	Sharma, RP; Saini, A; Kumar, S; Kumar, J; Venugopalan, P; Gondil, VS; Chhibber, S; Aree, T	Diaquabis(ethylenediamine)copper(II) vs. monoaquabis (ethylenediamine)copper(II): Synthesis, characterization, single crystal X-ray structure determination, theoretical calculations and antimicrobial activities of [Cu(en)(2)((H2O)(2))](2-phenoxybenzoate)(2)center dot H2O and [Cu(en)(2)((H2O))](diphenylacetate)(2)center dot	POLYHEDRON	2017	123		430	440		10.1016/j.poly.2016.11.042
135	Raj, T; Sharma, H; Mayank; Singh, A; Aree, T; Kaur, N; Singh, N; Jang, DO	Solvent-Less Mechanochemical Approach to the Synthesis of Pyrimidine Derivatives	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2017	5	2	1468	1475		10.1021/acssuschemeng.6b02030
136	Nguyen, DMT; Do, LMT; Nguyen, VT; Chavasiri, W; Mortier, J; Nguyen, PPK	Phenolic Compounds from the Lichen Lobaria orientalis	JOURNAL OF NATURAL PRODUCTS	2017	80	2	261	268		10.1021/acs.jnatprod.6b00465
137	Teengam, P; Siangproh, W; Tuantranont, A; Henry, CS; Vilaivan, T;	Electrochemical paper-based peptide nucleic acid biosensor for detecting human papillomavirus	ANALYTICA CHIMICA ACTA	2017	952		32	40		10.1016/j.aca.2016.11.071
138	Apilux, A; Siangproh, W; Insin, N; Chailapakul, O; Prachayasittikul, V	Paper-based thioglycolic acid (TGA)-capped CdTe QD device for rapid screening of organophosphorus and carbamate insecticides	ANALYTICAL METHODS	2017	9	3	519	527		10.1039/c6ay02883g
139	Yukird, J; Wongtangprasert, T; Rangkupan, R; Chailapakul, O; Pisitkun, T; Rodthongkum, N	Label-free immunosensor based on graphene/polyaniline nanocomposite for neutrophil gelatinase-associated lipocalin	BIOSENSORS & BIOELECTRONICS	2017	87		249	255		10.1016/j.bios.2016.08.062
140	Chaiseeda, K; Chavasiri, W	Thioacetalization of aldehydes and ketones catalyzed by hexabromoacetone	PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS	2017	192	9	1034	1039		10.1080/10426507.2017.1321646
141	Chanprapai, P; Chavasiri, W	Antimicrobial activity from &ITPiper&IT &ITsarmentosum&IT Roxb. against rice pathogenic bacteria and fungi	JOURNAL OF INTEGRATIVE AGRICULTURE	2017	16	11	2513	2524		10.1016/S2095-3119(17)61693-9
142	Opitakorn, A; Rauytanapanit, M; Waditee-Sirisattha, R; Praneenarat, T	Non-leaching antibacterial cotton fabrics based on lipidated peptides	RSC ADVANCES	2017	7	54	34267	34275		10.1039/c7ra03565a
143	Phattamajintatamrong, N; Puanngam, M; Imyim, A	Speciation Analysis of Arsenite, Arsenate and Dimethylarsenic Acid Using Silica-based Columns and ICP-OES	CURRENT ANALYTICAL CHEMISTRY	2017	13	2	137	143		10.2174/1573411012666160210225523
144	Sichaem, J; Aree, T; Lugsanangarm, K; Tip-Pyang, S	Identification of highly potent alpha-glucosidase inhibitory and antioxidant constituents from Zizyphus rugosa bark: enzyme kinetic and molecular docking studies with active metabolites	PHARMACEUTICAL BIOLOGY	2017	55	1	1436	1441		10.1080/13880209.2017.1304426
145	Meesakul, P; Pudhom, K; Pyne, SG; Laphookhieo, S	Hybrid flavan-flavanones from Friesodielsia desmoides and their inhibitory activities against nitric oxide production	RSC ADVANCES	2017	7	28	17545	17550		10.1039/c7ra02528a
146	Leelahawong, C; Srisomsap, C; Cherdshewasart, W;	Proteomic analysis of isozymes in Butea superba leaves	RUSSIAN JOURNAL OF PLANT PHYSIOLOGY	2017	64	1	100	108		10.1134/S1021443717010101
147	Chareonsiriwat, L; Chavasiri, W	Convenient method for the transformation of epoxide to aldehyde and acetone mediated by	SYNTHETIC COMMUNICATIONS	2017	47	4	257	267		10.1080/00397911.2016.1254799

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148	Sukmanee, T; Wongravee, K; Ekgasit, S; Thammacharoen, C; Pienpinijtham, P	Facile and Sensitive Detection of Carbofuran Carbamate Pesticide in Rice and Soybean Using Coupling Reaction-based Surface-Enhanced Raman Scattering	ANALYTICAL SCIENCES	2017	33	1	89	94		10.2116/analsci.33.89
149	Kaennakam, S; Siripong, P; Tip-pyang, S	Cytotoxicities of two new isoflavanes from the roots of Dalbergia velutina	JOURNAL OF NATURAL MEDICINES	2017	71	1	310	314		10.1007/s11418-016-1039-4
150	Lertvachirapaiboon, C; Baba, A; Ekgasit, S; Shinbo, K; Kato, K; Kaneko, F	Microfluidic transmission surface plasmon resonance enhancement for biosensor	JAPANESE JOURNAL OF APPLIED PHYSICS	2017	56	1			17002	10.7567/JJAP.56.017002
151	Sumrunronnasak, S; Tantayanon, S; Kiatgamolchai, S	Influence of layer compositions and annealing conditions on complete formation of ternary PdAgCu alloys prepared by sequential electroless and electroplating methods	MATERIALS CHEMISTRY AND PHYSICS	2017	185		98	103		10.1016/j.matchemphys.2016.10.010
152	Sichaem, J; Ingkaninan, K; Tip-pyang, S	A novel pyrrole alkaloid from the fruit peels of Strychnos nux-blanda	NATURAL PRODUCT RESEARCH	2017	31	2	149	154		10.1080/14786419.2016.1222388
153	Chaianansutcharit, S; Ju, YW; Ida, S; Ishihara, T	Ni doped PrSr3Fe3O10-delta Ruddlesden-Popper oxide for active oxygen reduction cathode for solid oxide fuel cell	ELECTROCHIMICA ACTA	2016	222		1853	1860		10.1016/j.electacta.2016.11.178
154	Vongnam, K; Muangnoi, C; Rojsitthisak, P; Sukwattanasinitt, M; Rashatasakhon,	A highly selective turn-on fluorescent sensor for glucosamine from amidoquinoline-napthalimide	BIOSENSORS & BIOELECTRONICS	2016	86		472	476		10.1016/j.bios.2016.07.008
155	Yotapan, N; Nim-anussornkul, D; Vilaivan, T	Pyrrolidinyl peptide nucleic acid terminally labeled with fluorophore and end-stacking quencher as a probe for highly specific DNA	TETRAHEDRON	2016	72	49	7992	7999		10.1016/j.tet.2016.10.040
156	Jetsadawisut, W; Nutho, B; Meeprasert, A; Rungrotmongkol, T; Kungwan, N; Wolschann, P; Hannongbua, S	Susceptibility of inhibitors against 3C protease of coxsackievirus A16 and enterovirus A71 causing hand, foot and mouth disease: A molecular	BIOPHYSICAL CHEMISTRY	2016	219		9	16		10.1016/j.bpc.2016.09.005
157	Pimparu, R; Nitiyanontakit, S; Miro, M; Varanusupakul, P	Dynamic single-interface hollow fiber liquid phase microextraction of Cr (VI) using ionic liquid containing supported liquid membrane	TALANTA	2016	161		730	734		10.1016/j.talanta.2016.09.036
158	Thanawatpoontawee, S; Imyim, A; Praphairaksit, N	Iron-loaded zein beads as a biocompatible adsorbent for arsenic(V) removal	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY	2016	43		127	132		10.1016/j.jiec.2016.07.058
159	Bhanthumnavin, W; Wanichapichart, P; Taweepreeda, W; Sirijarukula, S;	Surface modification of bacterial cellulose membrane by oxygen plasma treatment	SURFACE & COATINGS TECHNOLOGY	2016	306		272	278		10.1016/j.surfcoat.2016.06.035
160	Paosawatyanong, B; Pongsopa, J; Visuttipitukul, P; Bhanthumnavin, W	Nitriding of tool steel using dual DC/RFICP plasma process	SURFACE & COATINGS TECHNOLOGY	2016	306		351	357		10.1016/j.surfcoat.2016.08.016
161	Sharma, RP; Kumar, S; Kumar, J; Venugopalan, P; Gondil, VS; Chibber, S; Aree, T	Syntheses, characterization, single crystal X-ray structures and antimicrobial activities of four Cu(II) 3-halobenzoate complexes; Cu(3-chloro/bromobenzoate)(2) in the presence of heterocyclic N-donor ligands beta/gamma-	POLYHEDRON	2016	119		494	504		10.1016/j.poly.2016.09.013
162	Luesakul, U; Komenek, S; Puthong, S; Muangsin, N	Shape-controlled synthesis of cubic-like selenium nanoparticles via the self-assembly method	CARBOHYDRATE POLYMERS	2016	153		435	444		10.1016/j.carbpol.2016.08.004
163	Phuong, VT; Chokbunpiam, T; Fritzsche, S; Remsungnen, T; Rungrotmongkol, T; Chmelik, C; Caro, J; Hannongbua, S	Methane in zeolitic imidazolate framework ZIF-90: Adsorption and diffusion by molecular dynamics and Gibbs ensemble Monte Carlo	MICROPOROUS AND MESOPOROUS MATERIALS	2016	235		69	77		10.1016/j.micromeso.2016.06.029
164	Vinayavekhin, N; Sueajai, J; Chaihad, N; Panrak, R; Chokchaisiri, R; Sangvanich,	Serum lipidomics analysis of ovariectomized rats under Curcuma comosa treatment	JOURNAL OF ETHNOPHARMACOLOGY	2016	192		273	282		10.1016/j.jep.2016.07.054

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165	Boonlua, C; Charoenpakdee, C; Vilaivan, T; Praneenarat, T	Preparation and Performance Evaluation of a PyrrolidinyI Peptide Nucleic-Acid-Based Displacement Probe as a DNA Sensor	CHEMISTRYSELECT	2016	1	18	5691	5697		10.1002/slct.201601075
166	Niyomploy, P; Chan, LY; Poth, AG; Colgrave, ML; Sangvanich, P; Craik, DJ	Discovery, isolation, and structural characterization of cyclotides from Viola	BIOPOLYMERS	2016	106	6	796	805		10.1002/bip.22914
167	Inthuwanaarud, K; Sangvanich, P; Puthong, S; Karnchanatat, A	Antioxidant and antiproliferative activities of protein hydrolysate from the rhizomes of	PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES	2016	29	6	1893	1900		
168	Hairani, R; Mongkol, R; Chavasiri, W	Allyl and prenyl ethers of mansonone G, new potential semisynthetic antibacterial agents	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2016	26	21	5300	5303		10.1016/j.bmcl.2016.09.044
169	Chotechuang, N; Lekkumlu, M; Changsiripun, C; Wongravee, K;	The pilot study: Umami taste induced saliva secretion in Thai older adults	CHEMICAL SENSES	2016	41	9	E279	E279		
170	Jampasa, S; Siangproh, W; Duangmal, K; Chailapakul, O	Electrochemically reduced graphene oxide-modified screen-printed carbon electrodes for a simple and highly sensitive electrochemical detection of synthetic colorants in beverages	TALANTA	2016	160		113	124		10.1016/j.talanta.2016.07.011
171	Keawsongsaeng, W; Gasiorowski, J; Denk, P; Oppelt, K; Apaydin, DH; Rojanathanes, R; Hingerl, K; Scharber,	Systematic Investigation of Porphyrin-Thiophene Conjugates for Ternary Bulk Heterojunction Solar Cells	ADVANCED ENERGY MATERIALS	2016	6	20			1600957	10.1002/aenm.201600957
172	Chantarasriwong, O; Jiangchareon, B; Putra, CK; Suwankrua, W; Chavasiri, W	NBS and Br3CCOCBr3 as highly efficient catalysts for the chemoselective N-tert-butyloxycarbonylation of amines	TETRAHEDRON LETTERS	2016	57	43	4807	4811		10.1016/j.tetlet.2016.09.052
173	Chokbunpiam, T; Fritzsche, S; Chmelik, C; Caro, J; Janke, W; Hannongbua, S	Gate Opening, Diffusion, and Adsorption of CO2 and N-2 Mixtures in ZIF-8	JOURNAL OF PHYSICAL CHEMISTRY C	2016	120	41	23458	23468		10.1021/acs.jpcc.6b05506
174	Aree, T; Jongrungruangchok, S	Enhancement of antioxidant activity of green tea epicatechins in beta-cyclodextrin cavity: Single-crystal X-ray analysis, DFT calculation and DPPH	CARBOHYDRATE POLYMERS	2016	151		1139	1151		10.1016/j.carbpol.2016.05.113
175	Baglia, RA; Krest, CM; Yang, T; Leeladee, P; Goldberg, DP	High-Valent Manganese-Oxo Valence Tautomers and the Influence of Lewis/Bronsted Acids on C-H Bond Cleavage	INORGANIC CHEMISTRY	2016	55	20	10800	10809		10.1021/acs.inorgchem.6b02109
176	Kitjaruwankul, S; Khрутto, C; Sompornpisut, P; Farmer, BL; Pandey, RB	Asymmetry in structural response of inner and outer transmembrane segments of CorA protein by a coarse-grain model	JOURNAL OF CHEMICAL PHYSICS	2016	145	13				10.1063/1.4963807
177	Chaiyo, S; Apiluk, A; Siangproh, W; Chailapakul, O	High sensitivity and specificity simultaneous determination of lead, cadmium and copper using mu PAD with dual electrochemical and colorimetric detection	SENSORS AND ACTUATORS B-CHEMICAL	2016	233		540	549		10.1016/j.snb.2016.04.109
178	Boonyasit, Y; Laiwattanapaisa, W; Chailapakul, O; Emneus, J; Heiskanen, AR	Boronate-Modified Interdigitated Electrode Array for Selective Impedance-Based Sensing of Glycated Hemoglobin	ANALYTICAL CHEMISTRY	2016	88	19	9582	9589		10.1021/acs.analchem.6b02234
179	Nunthaboot, N; Lugsanangarm, K; Pianwanit, S; Kokpol, S; Tanaka, F; Nakanishi, T; Kitamura, M	Conformational difference between two subunits in flavin mononucleotide binding protein dimers from Desulfovibrio vulgaris (MF): molecular dynamics simulation	COMPUTATIONAL BIOLOGY AND CHEMISTRY	2016	64		113	125		10.1016/j.compbiolchem.2016.05.007
180	Phanich, J; Rungrotmongkol, T; Kungwan, N; Hannongbua, S	Role of R292K mutation in influenza H7N9 neuraminidase toward oseltamivir susceptibility: MD and MM/PB(GB)SA study	JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN	2016	30	10	917	926		10.1007/s10822-016-9981-5

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181	Worawalai, W; Khongchai, P; Surachaitanawat, N; Phuwapraisirisan, P	Synthesis of furofuran lignans as antidiabetic agents simultaneously achieved by inhibiting alpha-glucosidase and free radical	ARCHIVES OF PHARMACAL RESEARCH	2016	39	10	1370	1381		10.1007/s12272-016-0778-9
182	Kantang, W; Chunsriviro, S; Muangsin, N; Poovorawan, Y; Krusong, K	Design of peptides as inhibitors of human papillomavirus 16 transcriptional regulator E1-E2	CHEMICAL BIOLOGY & DRUG DESIGN	2016	88	4	475	484		10.1111/cbdd.12790
183	Uppa, Y; Kulchat, S; Ngamdee, K; Pradublai, K; Tuntulani, T; Ngeontae, W	Silver ion modulated CdS quantum dots for highly selective detection of trace Hg2+	JOURNAL OF LUMINESCENCE	2016	178		437	445		10.1016/j.jlumin.2016.06.001
184	Janjarasskul, T; Tananuwig, K; Kongpensook, V; Tantratian, S; Kokpol, S	Shelf life extension of sponge cake by active packaging as an alternative to direct addition of chemical preservatives	LWT-FOOD SCIENCE AND TECHNOLOGY	2016	72		166	174		10.1016/j.lwt.2016.04.049
185	Seemork, J; Sansureungsikul, T; Sathomsantikun, K; Sinthusake, T; Shigyou, K; Tree-Udom, T; Jiangchareon, B; Chiablaem, K; Lirdpramongkol, K;	Penetration of Oxidized Carbon Nanospheres through Lipid Bilayer Membrane: Comparison to Graphene Oxide and Oxidized Carbon Nanotubes, and Effects of pH and Membrane Composition	ACS APPLIED MATERIALS & INTERFACES	2016	8	36	23549	23557		10.1021/acsami.6b07908
186	Boonyasit, Y; Chailapakul, O; Laiwattanapaisa, W	A multiplexed three-dimensional paper-based electrochemical impedance device for simultaneous label-free affinity sensing of total and glycated haemoglobin: The potential of using a specific single-frequency value for analysis	ANALYTICA CHIMICA ACTA	2016	936		1	11		10.1016/j.aca.2016.05.047
187	Majumdar, R; Tantayanon, S; Bag, BG	A Novel Trihybrid Material Based on Renewables: An Efficient Recyclable Heterogeneous Catalyst for C-C Coupling and Reduction Reactions	CHEMISTRY-AN ASIAN JOURNAL	2016	11	17	2406	2414		10.1002/asia.201600773
188	Songsiripraduboon, S; Banlunara, W; Sangvanich, P; Trairatvorakul, C; Thunyakitpisal, P	Clinical, radiographic, and histologic analysis of the effects of acemannan used in direct pulp capping of human primary teeth: short-term	ODONTOLOGY	2016	104	3	329	337		10.1007/s10266-015-0215-4
189	Jeenpadiphat, S; Mongkolpichayarak, I; Tungasmita, DN	Catechol production from lignin by Al-doped mesoporous silica catalytic cracking	JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS	2016	121		318	328		10.1016/j.jaap.2016.08.011
190	Sichaem, J; Khumkratok, S; Sawasdee, P; Tip-pyang, S	A New Coumarin from the Stems of Pterocarpus indicus	NATURAL PRODUCT COMMUNICATIONS	2016	11	9	1287	1288		
191	Dissayabut, T; Kalpongkukul, N; Mingmongkol, S; Rattanaphan, J; Srisa-Art, M; Ungjareonwattana, W; Boonla,	URINARY METABOLIC ABNORMALITIES IN FAMILIES WITH NEPHROLITHIASIS	NEPHROLOGY	2016	21		105	106		
192	Rattanangkool, E; Vilaivan, T; Sukwattanasinitt, M; Wacharasindhu, S	An Atom-Economic Approach for Vinylation of Indoles and Phenols Using Calcium Carbide as Acetylene Surrogate	EUROPEAN JOURNAL OF ORGANIC CHEMISTRY	2016		25	4347	4353		10.1002/ejoc.201600666
193	Jeenpadiphat, S; Kasiban, C; Tungasmita, DN	Corn cob to value-added chemical transformation by metal/beta zeolite and metal/mesoporous SBA-15 catalytic pyrolysis	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	2016	91	9	2519	2528		10.1002/jctb.4852
194	Masuoka, N; Tamsampaoloet, K; Chavasiri, W; Kubo, I	Superoxide anion scavenging activity of alk(en)yl phenol compounds by using PMS-NADH system	HELIYON	2016	2	9			UNSP e00169	10.1016/j.heliyon.2016.e00169
195	Suea-Ngam, A; Rattanarat, P; Wongravee, K; Chailapakul, O; Srisa-Art,	Droplet-based glucosamine sensor using gold nanoparticles and polyaniline-modified electrode	TALANTA	2016	158		134	141		10.1016/j.talanta.2016.05.052
196	Ariyageadsakul, P; Vchirawongkwin, V; Kritayakornupong, C	Determination of toxic carbonyl species including acetone, formaldehyde, and phosgene by polyaniline emeraldine gas sensor using DFT	SENSORS AND ACTUATORS B-CHEMICAL	2016	232		165	174		10.1016/j.snb.2016.03.137
197	Khadsai, S; Rutnakornpituk, B; Vilaivan, T; Nakkuntod, M; Rutnakornpituk, M	Anionic magnetite nanoparticle conjugated with pyrrolidiny peptide nucleic acid for DNA base discrimination	JOURNAL OF NANOPARTICLE RESEARCH	2016	18	9			263	10.1007/s11051-016-3574-z

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198	Kuipers, A; Promdet, P; Henry, A; Blumenfeld, C; Hovsepyan, A; Khuu, T;	Targeting folate receptors with fluorescent dye-metal oxide nanoconjugates	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	2016	252					
199	Sukato, R; Sangpetch, N; Palaga, T; Jantra, S; Vchirawongkwin, V; Jongwohan, C; Sukwattanasinitt, M;	New turn-on fluorescent and colorimetric probe for cyanide detection based on BODIPY-salicylaldehyde and its application in cell imaging	JOURNAL OF HAZARDOUS MATERIALS	2016	314		277	285		10.1016/j.jhazmat.2016.04.001
200	Thipmanee, O; Numnuam, A; Limbut, W; Buranachai, C; Kanatharana, P; Vilaivan, T; Hirankarn, N; Thavarungkul,	Enhancing capacitive DNA biosensor performance by target overhang with application on screening test of HLA-B*58:01 and HLA-	BIOSENSORS & BIOELECTRONICS	2016	82		99	104		10.1016/j.bios.2016.03.065
201	Ekgasit, S; Kaewmanee, N; Jangtawee, P; Thammacharoen, C; Donphoongpri, M	Elastomeric PDMS Planoconvex Lenses Fabricated by a Confined Sessile Drop Technique	ACS APPLIED MATERIALS & INTERFACES	2016	8	31	20474	20482		10.1021/acsami.6b06305
202	Thuesombat, P; Hannongbua, S; Ekgasit, S; Chadchawan, S	Effects of Silver Nanoparticles on Hydrogen Peroxide Generation and Antioxidant Enzyme	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2016	16	8	8030	8043		10.1166/jnn.2016.12754
203	Yutthaseri, T; Ajavakom, A; Ajavakom, V	NATURAL TETRAHYDROCURCUMIN IN MULTI-COMPONENT SYNTHESIS OF 1,4-DIHYDROPYRIDINE DERIVATIVES	HETEROCYCLES	2016	92	8	1512	1520		
204	Pangdam, A; Nootchanat, S; Ishikawa, R; Shinbo, K; Kato, K; Kaneko, F;	Effect of urchin-like gold nanoparticles in organic thin-film solar cells	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2016	18	27	18500	18506		10.1039/c6cp02373h
205	Nunthaboot, N; Lugsanangarm, K; Nueangaudom, A; Pianwanit, S; Kokpol, S; Tanaka, F; Taniguchi, S; Chosrowjan, H; Nakanishi, T; Kitamura, M	Photoinduced electron transfer from aromatic amino acids to the excited isoalloxazine in flavin mononucleotide binding protein. Is the rate in the inverted region of donor-acceptor distance	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2016	326		60	68		10.1016/j.jphotochem.2016.04.005
206	Pienpinijtham, P; Vantasin, S; Kitahama, Y; Ekgasit, S; Ozaki, Y	Nanoscale pH Profile at a Solution/Solid Interface by Chemically Modified Tip-Enhanced Raman	JOURNAL OF PHYSICAL CHEMISTRY C	2016	120	27	14663	14668		10.1021/acs.jpcc.6b03460
207	Singto, S; Supap, T; Idem, R; Tontiwachwuthikul, P; Tantayanon, S; Al-Marri, MJ; Benamor, A	Synthesis of new amines for enhanced carbon dioxide (CO ₂) capture performance: The effect of chemical structure on equilibrium solubility, cyclic capacity, kinetics of absorption and regeneration, and heats of absorption and	SEPARATION AND PURIFICATION TECHNOLOGY	2016	167		97	107		10.1016/j.seppur.2016.05.002
208	Vantasin, S; Ji, W; Tanaka, Y; Kitahama, Y; Wang, M; Wongravee, K; Gatemala,	3D SERS Imaging Using Chemically Synthesized Highly Symmetric Nanoporous Silver	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	2016	55	29	8391	8395		10.1002/anie.201603758
209	Jiraroj, D; Chaipurimat, A; Kerdsa, N; Hannongbua, S; Tungasmita, DN	Catalytic cracking of polypropylene using aluminosilicate catalysts	JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS	2016	120		529	539		10.1016/j.jaap.2016.07.008
210	Mettakoonpitak, J; Boehle, K; Nantaphol, S; Teengam, P; Adkins, JA;	Electrochemistry on Paper-based Analytical Devices: A Review	ELECTROANALYSIS	2016	28	7	1420	1436		10.1002/elan.201501143
211	Choodej, S; Teerawatananond, T; Mitsunaga, T; Pudhom, K	Chamigrane Sesquiterpenes from a Basidiomycetous Endophytic Fungus XG8D Associated with Thai Mangrove Xylocarpus	MARINE DRUGS	2016	14	7			132	10.3390/md14070132
212	Sridaeng, D; Jitaree, W; Thiampanya, P; Chantarasiri, N	Preparation of rigid polyurethane foams using low-emission catalysts derived from metal acetates and ethanolamine	E-POLYMERS	2016	16	4	265	275		10.1515/epoly-2016-0021
213	Leelahawong, C; Srisomsap, C; Cherdshewasart, W;	Comparative protein profiles of Butea superba tubers under seasonal changes	MOLECULAR BIOLOGY REPORTS	2016	43	7	719	736		10.1007/s11033-016-4010-2
214	Mehmeti, E; Stankovic, DM; Chaiyo, S; Svorc, L; Ortner, A; Kalcher, K	Electrochemical determination of ajmalicine using glassy carbon electrode modified with gold nanoparticles	MONATSHFTE FUR CHEMIE	2016	147	7	1161	1166		10.1007/s00706-016-1741-7
215	Srithanrat, S; Osathaphan, K; Sharma, VK; Kraiya, C	Rapid and efficient removal of Ni(II) in water using constant-current electrolysis	DESALINATION AND WATER TREATMENT	2016	57	34	15952	15957		10.1080/19443994.2015.1075430

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216	Worawalai, W; Sompornpisut, P; Wacharasindhu, S; Phuwapraisirisan, P	Voglibose-inspired synthesis of new potent alpha-glucosidase inhibitors N-1,3-dihydroxypropylaminocyclitols	CARBOHYDRATE RESEARCH	2016	429		155	162		10.1016/j.carres.2016.04.014
217	Rattanasat, P; Suea-Ngam, A; Ruecha, N; Siangproh, W; Henry, CS; Monpichar, SA; Chailapakul, O	Graphene-polyaniline modified electrochemical droplet-based microfluidic sensor for high-throughput determination of 4-aminophenol	ANALYTICA CHIMICA ACTA	2016	925		51	60		10.1016/j.aca.2016.03.010
218	Chaniad, P; Wattanapiromsakul, C; Pianwanit, S; Tewtrakul, S	Anti-HIV-1 integrase compounds from Dioscorea bulbifera and molecular docking study	PHARMACEUTICAL BIOLOGY	2016	54	6	1077	1085		10.3109/13880209.2015.1103272
219	Sichaem, J; Khumkratok, S; Siripong, P; Tip-pyang, S	A New Non-glucosidic Iridoid from the Roots of Strychnos nux-blanda	NATURAL PRODUCT COMMUNICATIONS	2016	11	6	709	710		
220	Sittiwong, J; Unob, F	Paper-based Platform for Urinary Creatinine	ANALYTICAL SCIENCES	2016	32	6	639	643		10.2116/analsci.32.639
221	Schaduangrat, N; Phanich, J; Rungrotmongkol, T; Lerdsamran, H; Puthavathana, P; Ubol, S	The significance of naturally occurring neuraminidase quasispecies of H5N1 avian influenza virus on resistance to oseltamivir: a	JOURNAL OF GENERAL VIROLOGY	2016	97		1311	1323		10.1099/jgv.0.000444
222	Sukandar, ER; Siripong, P; Khumkratok, S; Tip-pyang, S	New depsidones and xanthone from the roots of Garcinia schomburgkiana	FITOTERAPIA	2016	111		73	77		10.1016/j.fitote.2016.04.012
223	Siangproh, W; Chailapakul, O; Songsrirote, K	Simple and fast colorimetric detection of inorganic arsenic selectively adsorbed onto ferrihydrite-coated silica gel using silver	TALANTA	2016	153		197	202		10.1016/j.talanta.2016.03.028
224	Pipornpong, W; Kaewruksa, B; Ruangpornvisuti, V	DFT investigation on molecular structures of metal and nonmetal-doped ZnO sodalite-like cage and their electronic properties	STRUCTURAL CHEMISTRY	2016	27	3	773	784		10.1007/s11224-015-0625-5
225	Raj, P; Singh, A; Kaur, K; Aree, T; Singh, A; Singh, N	Fluorescent Chemosensors for Selective and Sensitive Detection of Phosmet/Chlorpyrifos with Octahedral Ni2+ Complexes	INORGANIC CHEMISTRY	2016	55	10	4874	4883		10.1021/acs.inorgchem.6b00332
226	Tateyama, S; Masuo, S; Suvannasara, P; Oka, Y; Miyazato, A; Yasaki, K; Teerawatananond, T; Muangsin, N;	Ultrastrong, Transparent Polytruxillamides Derived from Microbial Photodimers	MACROMOLECULES	2016	49	9	3336	3342		10.1021/acs.macromol.6b00220
227	Khuntawee, W; Rungrotmongkol, T; Wolschann, P; Pongsawasdi, P;	Conformation study of epsilon-cyclodextrin: Replica exchange molecular dynamics simulations	CARBOHYDRATE POLYMERS	2016	141		99	105		10.1016/j.carbpol.2015.10.018
228	Jettanajit, A; Nhujak, T	Determination of Mycotoxins in Brown Rice Using QuEChERS Sample Preparation and UHPLC-	JOURNAL OF CHROMATOGRAPHIC SCIENCE	2016	54	5	720	729		10.1093/chromsci/bmv244
229	Trakarnpruk, W	Mn- and Co-substituted polyoxotungstates on MCM-41 and layered double hydroxide as catalysts in the oxidation of benzyl alcohol and	MENDELEEV COMMUNICATIONS	2016	26	3	256	258		10.1016/j.mencom.2016.05.012
230	Sang-aroon, W; Ruangpornvisuti, V; Amornkitbamrung, V	Tautomeric transformation of temozolomide, their proton affinities and chemical reactivities: A theoretical approach	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	2016	66		76	84		10.1016/j.jmgm.2016.03.016
231	Mehmeti, E; Stankovic, DM; Chaiyo, S; Svorc, L; Kalcher, K	Manganese dioxide-modified carbon paste electrode for voltammetric determination of	MICROCHIMICA ACTA	2016	183	5	1619	1624		10.1007/s00604-016-1789-4
232	Saengsookwaow, C; Rangkupan, R; Chailapakul, O; Rodthongkum, N	Nitrogen-doped graphene-polyvinylpyrrolidone/gold nanoparticles modified electrode as a novel hydrazine sensor	SENSORS AND ACTUATORS B-CHEMICAL	2016	227		524	532		10.1016/j.snb.2015.12.091
233	Chaiyo, S; Mehmeti, E; Zagar, K; Siangproh, W; Chailapakul, O; Kalcher, K	Electrochemical sensors for the simultaneous determination of zinc, cadmium and lead using a Nafion/ionic liquid/graphene composite modified screen-printed carbon electrode	ANALYTICA CHIMICA ACTA	2016	918		26	34		10.1016/j.aca.2016.03.026

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234	Aree, T; Jongrungruangchok, S	Crystallographic evidence for beta-cyclodextrin inclusion complexation facilitating the improvement of antioxidant activity of tea (+)-catechin and (-)-epicatechin	CARBOHYDRATE POLYMERS	2016	140		362	373		10.1016/j.carbpol.2015.12.066
235	Tirawattanakoson, R; Rattanasarat, P; Ngamrojanavanich, N; Rodthongkum, N; Chailapakul, O	Free radical scavenger screening of total antioxidant capacity in herb and beverage using graphene/PEDOT: PSS-modified electrochemical	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	2016	767		68	75		10.1016/j.jelechem.2015.11.037
236	Mungkarndee, R; Techakriengkrai, I; Tumcharern, G; Sukwattanasinitt, M	Fluorescence sensor array for identification of commercial milk samples according to their thermal treatments	FOOD CHEMISTRY	2016	197		198	204		10.1016/j.foodchem.2015.10.083
237	Puripattanavong, J; Tungcharoen, P; Chaniad, P; Pianwanit, S; Tewtrakul, S	Anti-HIV-1 integrase effect of compounds from Aglaia andamanica leaves and molecular docking study with acute toxicity test in mice	PHARMACEUTICAL BIOLOGY	2016	54	4	654	659		10.3109/13880209.2015.1071413
238	Kengpipat, N; Pornpakakul, S; Piapukiew, J; Palaga, T; Robson, G; Whalley, AJS; Sihanonth, P	Effect of NaCl Concentration on Production of Actinomycin-D by Streptomyces sp Strain J6.2 Isolated from Thailand	CHIANG MAI JOURNAL OF SCIENCE	2016	43	3	683	687		
239	Khongkhaem, P; Suttinun, O; Intasiri, A; Pinyakong, O; Luepromchai, E	Degradation of Phenolic Compounds in Palm Oil Mill Effluent by Silica-Immobilized Bacteria in Internal Loop Airlift Bioreactors	CLEAN-SOIL AIR WATER	2016	44	4	383	392		10.1002/clen.201300853
240	Do, LTM; Aree, T; Siripong, P; Pham, TNK; Nguyen, PKP; Tip-Pyang, S	Bougainvinones A-H, Peltogynoids from the Stem Bark of Purple Bougainvillea spectabilis and Their Cytotoxic Activity	JOURNAL OF NATURAL PRODUCTS	2016	79	4	939	945		10.1021/acs.jnatprod.5b00996
241	Rungnim, C; Chanajaree, R; Rungrotmongkol, T; Hannongbua, S;	How strong is the edge effect in the adsorption of anticancer drugs on a graphene cluster?	JOURNAL OF MOLECULAR MODELING	2016	22	4			85	10.1007/s00894-016-2937-9
242	Yasarawan, N; Thipyapong, K; Ruangpornvisuti, V	Substituent effect on the proton-related phenomena and chelation behavior of hydroxypicolinic compounds: a DFT investigation	STRUCTURAL CHEMISTRY	2016	27	2	505	524		10.1007/s11224-015-0579-7
243	Punrat, E; Maksuk, C; Chuanuwatanakul, S; Wonsawat, W; Chailapakul, O	Polyaniline/graphene quantum dot-modified screen-printed carbon electrode for the rapid determination of Cr(VI) using stopped-flow analysis coupled with voltammetric technique	TALANTA	2016	150		198	205		10.1016/j.talanta.2015.12.016
244	Phaopongthai, J; Noiphrom, J; Phaopongthai, S; Pakmanee, N; Sichaem, J	Biological activities of Peristrophe bivalvis extracts: promising potential for anti-snake venoms against Naja kaouthia and Trimeresurus	NATURAL PRODUCT RESEARCH	2016	30	6	697	699		10.1080/14786419.2015.1038810
245	Chokbunpiam, T; Fritzsche, S; Chmelik, C; Caro, J; Janke, W; Hannongbua, S	Gate opening effect for carbon dioxide in ZIF-8 by molecular dynamics - Confirmed, but at high CO2 pressure	CHEMICAL PHYSICS LETTERS	2016	648					10.1016/j.cplett.2016.01.060
246	Kaewruksa, B; Vchirawongkwin, V; Ruangpornvisuti, V	DFT investigation on molecular structure of zirconia nanoparticle and its adsorption structures with elementary gases	JOURNAL OF MOLECULAR STRUCTURE	2016	1108		187	194		10.1016/j.molstruc.2015.12.013
247	Kesornpun, C; Aree, T; Mahidol, C; Ruchirawat, S; Kittakoop, P	Water-Assisted Nitrile Oxide Cycloadditions: Synthesis of Isoxazoles and Stereoselective Syntheses of Isoxazolines and 1,2,4-Oxadiazoles	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	2016	55	12	3997	4001		10.1002/anie.201511730
248	Sharma, RP; Kumar, S; Venugopalan, P; Aree, T; Starynowicz, P	Unusual coordination modes of ligand 2-chloro-5-nitrobenzene sulfonate: Synthesis, spectroscopic characterization, thermal and X-ray structural studies of metal 2-chloro-5-nitrobenzene sulfonate complexes, metal = Ti(II), Cu(II), Ag(I)	JOURNAL OF MOLECULAR STRUCTURE	2016	1107		47	56		10.1016/j.molstruc.2015.11.020

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249	Yasarawan, N; Thipyapong, K; Ruangpornvisuti, V	Chelation behavior of various flavonols and transfer of flavonol-chelated zinc(II) to alanylalpartic dipeptide: A PCM/DFT investigation	JOURNAL OF MOLECULAR STRUCTURE	2016	1107		278	290		10.1016/j.molstruc.2015.11.059
250	Jansisyant, P; Tiyaopongprapan, S; Chuenchompoonut, V; Sangvanich, P; Thunyakitpisal, P	The effect of acemannan sponges in post-extraction socket healing: A randomized trial	JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY MEDICINE AND PATHOLOGY	2016	28	2	105	110		10.1016/j.ajoms.2015.07.006
251	Rungsawang, T; Punrat, E; Adkins, J; Henry, C; Chailapakul, O	Development of Electrochemical Paper-based Glucose Sensor Using Cellulose-4-aminophenylboronic Acid-modified Screen-	ELECTROANALYSIS	2016	28	3	462	468		10.1002/elan.201500406
252	Khaokew, C; Sukwattanasinitt, M; Rashatasakhon, P	Salicyl Fluorene Derivatives as Fluorescent Sensors for Cu(II) Ions	JOURNAL OF FLUORESCENCE	2016	26	2	745	752		10.1007/s10895-016-1766-7
253	Pransilp, P; Pruettiphap, M; Bhanthumnavin, W; Paosawatanyong,	Surface modification of cotton fabrics by gas plasmas for color strength and adhesion by inkjet	APPLIED SURFACE SCIENCE	2016	364		208	220		10.1016/j.apsusc.2015.12.102
254	Tankam, T; Poochampa, K; Vilaivan, T; Sukwattanasinitt, M; Wacharasindhu, S	Organocatalytic visible light induced S-S bond formation for oxidative coupling of thiols to	TETRAHEDRON	2016	72	6	788	793		10.1016/j.tet.2015.12.036
255	Hitzenberger, M; Ratanasak, M; Parasuk, V; Hofer, TS	Optimizing link atom parameters for DNA QM/MM simulations	THEORETICAL CHEMISTRY ACCOUNTS	2016	135	3	1	7	47	10.1007/s00214-016-1819-7
256	Wiarachai, O; Vilaivan, T; Iwasaki, Y; Hoven, VP	Clickable and Antifouling Platform of Poly[(propargyl methacrylate)-ran-(2-methacryloyloxyethyl phosphorylcholine)] for	LANGMUIR	2016	32	4	1184	1194		10.1021/acs.langmuir.5b02727
257	Boonkitpatarakul, K; Wang, JF; Niamnont, N; Liu, B; Mcdonald, L; Pang,	Novel Turn-On Fluorescent Sensors with Mega Stokes Shifts for Dual Detection of Al3+ and Zn2+	ACS SENSORS	2016	1	2	144	150		10.1021/acssensors.5b00136
258	Wibowo, M; Prachyawarakorn, V; Aree, T; Mahidol, C; Ruchirawat, S; Kittakoo,	Cytotoxic sesquiterpenes from the endophytic fungus Pseudolagarobasidium acaciicola	PHYTOCHEMISTRY	2016	122		126	138		10.1016/j.phytochem.2015.11.016
259	Chokpaiboon, S; Choodej, S; Boonyuen, N; Teerawatananond, T; Pudhom, K	Highly oxygenated chromones from mangrove-derived endophytic fungus Rhytidhysterion	PHYTOCHEMISTRY	2016	122		172	177		10.1016/j.phytochem.2015.12.010
260	Sintupachee, S; Promden, W; Ngamrojanavanich, N; Sitthithaworn, W; De-Eknamkul, W	Functional expression of a putative geraniol 8-hydroxylase by reconstitution of bacterially expressed plant CYP76F45 and NADPH-cytochrome P450 reductase CPR I from Croton stellatopilous Ohba (vol 118, pg 204, 2015)	PHYTOCHEMISTRY	2016	122		303	303		10.1016/j.phytochem.2015.12.002
261	Kajornkavinkul, S; Punrat, E; Siangproh, W; Rodthongkum, N; Praphairaksit, N; Chailapakul, O	Graphene/polyvinylpyrrolidone/polyaniline nanocomposite-modified electrode for simultaneous determination of parabens by high performance liquid chromatography	TALANTA	2016	148		655	660		10.1016/j.talanta.2015.05.044
262	Bardpho, C; Rattanasat, P; Siangproh, W; Chailapakul, O	Ultra-high performance liquid chromatographic determination of antioxidants in teas using inkjet-printed graphene-polyaniline electrode	TALANTA	2016	148		673	679		10.1016/j.talanta.2015.05.020
263	Chanthasakda, N; Nitiyanontakit, S; Varanusupakul, P	Electro-enhanced hollow fiber membrane liquid phase microextraction of Cr(VI) oxoanions in drinking water samples	TALANTA	2016	148		680	685		10.1016/j.talanta.2015.04.080
264	Sumrunnonnasak, S; Tantayanon, S; Kiatgamolchai, S; Sukonket, T	Improved hydrogen production from dry reforming reaction using a catalytic packed-bed membrane reactor with Ni-based catalyst and dense PdAgCu alloy membrane	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2016	41	4	2621	2630		10.1016/j.ijhydene.2015.10.129
265	Arifin; Puripat, M; Yokogawa, D; Parasuk, V; Irie, S	Glucose transformation to 5-hydroxymethylfurfural in acidic ionic liquid: A	JOURNAL OF COMPUTATIONAL CHEMISTRY	2016	37	3	327	335		10.1002/jcc.24214

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266	Kitjaruwankul, S; Wapeesittippan, P; Boonamnaj, P; Sompompisut, P	Inner and Outer Coordination Shells of Mg ²⁺ in CorA Selectivity Filter from Molecular Dynamics	JOURNAL OF PHYSICAL CHEMISTRY B	2016	120	3	406	417		10.1021/acs.jpcc.5b10925
267	Imyim, A; Sirithaweessit, T; Ruangpornvisuti, V	Arsenite and arsenate removal from wastewater using cationic polymer-modified waste tyre	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2016	166		574	578		10.1016/j.jenvman.2015.11.005
268	Kaewkhonkaen, C; Ruangpornvisuti, V	Hydrogen adsorption on Pt-decorated closed-end armchair (3,3), (4,4) and (5,5) single-walled carbon nanotubes	MOLECULAR PHYSICS	2016	114	23	3508	3517		10.1080/00268976.2016.1241907
269	Mongkol, R; Chavasiri, W	Antimicrobial, herbicidal and antifeedant activities of mansonone E from the heartwoods of <i>Mansonia gagei</i> Drumm.	JOURNAL OF INTEGRATIVE AGRICULTURE	2016	15	12	2795	2802		10.1016/S2095-3119(16)61444-2
270	Ratanasak, M; Parasuk, V	Understanding the roles of novel electron donors in Ziegler-Natta catalyzed propylene	RSC ADVANCES	2016	6	114	112776	112783		10.1039/c6ra22101g
271	Maluin, FN; Sharifah, M; Rattanasarat, P; Siangproh, W; Chailapakul, O; Issam, AM; Manan, NSA	Synthesis of PANI/hematite/PB hybrid nanocomposites and fabrication as screen printed paper based sensors for cholesterol	ANALYTICAL METHODS	2016	8	45	8049	8058		10.1039/c6ay02478e
272	Meeprasert, A; Hannongbua, S; Kungwan, N; Rungrotmongkol, T	Effect of D168V mutation in NS3/4A HCV protease on susceptibilities of faldaprevir and	MOLECULAR BIOSYSTEMS	2016	12	12	3666	3673		10.1039/c6mb00610h
273	Suvokhiaw, S; Imyim, A; Sukpirom, N	As(V) removal using a magnetic layered double hydroxide composite	SEPARATION SCIENCE AND TECHNOLOGY	2016	51	18	2948	2957		10.1080/01496395.2016.1231206
274	Phaphon, K; Wacharasindhu, S; Petsom, A	Preparation of PEG-rosin derivative for water soluble rosin flux	SOLDERING & SURFACE MOUNT TECHNOLOGY	2016	28	4	188	200		10.1108/SSMT-08-2015-0025
275	Ekkaphan, P; Sooksai, S; Chantarasiri, N; Petsom, A	Bio-Based Polyols from Seed Oils for Water-Blown Rigid Polyurethane Foam Preparation	INTERNATIONAL JOURNAL OF POLYMER SCIENCE	2016					4909857	10.1155/2016/4909857
276	Nguyen, TP; Le, TD; Minh, PN; Dat, BT; Pham, NKT; Do, TML; Nguyen, DT; Mai,	A new dihydrofurocoumarin from the fruits of <i>Pandanus tectorius</i> Parkinson ex Du Roi	NATURAL PRODUCT RESEARCH	2016	30	21	2389	2395		10.1080/14786419.2016.1188095
277	Gatamala, H; Thammacharoen, C; Ekgasit, S; Pienpinijtham, P	3D nanoporous Ag microstructures fabricated from AgCl microcrystal templates via concerted oxidative etching/re- deposition and galvanic	CRYSTENGCOMM	2016	18	35	6664	6672		10.1039/c6ce01260d
278	Rungnim, C; Rungrotmongkol, T; Kungwan, N; Hannongbua, S	Protein-protein interactions between SWCNT/chitosan/EGF and EGF receptor: a model of drug delivery system	JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS	2016	34	9	1919	1929		10.1080/07391102.2015.1095114
279	Dangsopon, A; Poomsuk, N; Siritwong, K; Vilaivan, T; Suparpprom, C	Synthesis and fluorescence properties of 3,6-diaminocarbazole-modified pyrrolidinyl peptide nucleic acid	RSC ADVANCES	2016	6	78	74314	74322		10.1039/c6ra15861g
280	Pisetpackdeekul, P; Supmuang, P; Pan-In, P; Banlunara, W; Limcharoen, B;	Preretinal nanoparticles: stability, release, efficacy, and irritation	INTERNATIONAL JOURNAL OF NANOMEDICINE	2016	11		3277	3286		10.2147/IJN.S111748
281	Jungsukcharoen, J; Chokchaichamnankit, D; Srisomsap, C;	Proteome analysis of <i>Pueraria mirifica</i> tubers collected in different seasons	BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY	2016	80	6	1070	1080		10.1080/09168451.2016.1141035
282	Rutnakornpituk, B; Theppaleak, T; Rutnakornpituk, M; Vilaivan, T	Recyclable magnetite nanoparticle coated with cationic polymers for adsorption of DNA	JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION	2016	27	11	1200	1210		10.1080/09205063.2016.1189378
283	Imyim, A; Thanacharuphamorn, C; Saithongdee, A; Unob, F; Ruangpornvisuti, V	Simultaneous removal of Ag(I), Cd(II), Cr(III), Ni(II), Pb(II), and Zn(II) from wastewater using humic acid-coated aminopropyl silica gel	DESALINATION AND WATER TREATMENT	2016	57	37	17411	17420		10.1080/19443994.2015.1085445
284	Techajaroonjit, T; Namuangruk, S; Prachumrak, N; Promarak, V;	Synthesis, characterization, and hole-transporting properties of pyrenyl N-substituted	RSC ADVANCES	2016	6	61	56392	56398		10.1039/c6ra09688c
285	Kaennakam, S; Siripong, P; Tip-pyang, S	Dalvelutinoside, a new isoflavone glycoside from the methanol extract of <i>Dalbergia velutina</i> roots	NATURAL PRODUCT RESEARCH	2016	30	13	1493	1498		10.1080/14786419.2015.1114936

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286	Wittayarak, I; Imyim, A; Wongravee, K	Simultaneous removal of As(III) and As(V) from wastewater by co-precipitation using an experimental design approach	DESALINATION AND WATER TREATMENT	2016	57	35	16571	16582		10.1080/19443994.2015.1079802
287	Charoensuk, L; Pinlaor, P; Wanichwecharungruang, S; Intuyod, K; Vaeteewoottacharn, K; Chaidee, A; Yongvanit, P; Pairojkul, C; Suwannateep,	Nanoencapsulated curcumin and praziquantel treatment reduces periductal fibrosis and attenuates bile canalicular abnormalities in <i>Opisthorchis viverrini</i> -infected hamsters	NANOMEDICINE- NANOTECHNOLOGY BIOLOGY AND MEDICINE	2016	12	1	21	32		10.1016/j.nano.2015.10.005
288	Phanich, J; Rungrotmongkol, T; Sindhikara, D; Phongphanphane, S; Yoshida, N; Hirata, F; Kungwan, N; Hannongbua, S	A 3D-RISM/RISM study of the oseltamivir binding efficiency with the wild-type and resistance-associated mutant forms of the viral influenza B neuraminidase	PROTEIN SCIENCE	2016	25	1	147	158		10.1002/pro.2718
289	Kicuntod, J; Khuntawee, W; Wolschann, P; Pongsawasdi, P; Chavasiri, W;	Inclusion complexation of pinostrobin with various cyclodextrin derivatives	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	2016	63		91	98		10.1016/j.jmgm.2015.11.005
290	Saengprachum, N; Pengprecha, S	Preparation and characterization of aluminum oxide coated extracted silica from rice husk ash for monoglyceride removal in crude biodiesel	JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS	2016	58		441	450		10.1016/j.jtice.2015.06.037
291	Ishigaki, M; Maeda, Y; Taketani, A; Andriana, BB; Ishihara, R; Wongravee, K;	Diagnosis of early-stage esophageal cancer by Raman spectroscopy and chemometric	ANALYST	2016	141	3	1027	1033		10.1039/c5an01323b
292	Prapagdee, S; Piyatiratitivorakul, S; Petsom, A	Physico-chemical Activation on Rice Husk Biochar for Enhancing of Cadmium Removal from Aqueous Solution	ASIAN JOURNAL OF WATER ENVIRONMENT AND POLLUTION	2016	13	1	27	34		10.3233/AJW-160004
293	Sukandar, ER; Ersam, T; Fatmawati, S; Siripong, P; Aree, T; Tip-pyang, S	Cylindroxanthones A-C, three new xanthones and their cytotoxicity from the stem bark of <i>Garcinia cylindrocarpa</i>	FITOTERAPIA	2016	108		62	65		10.1016/j.fitote.2015.11.017
294	Nugitrangson, P; Puthong, S; Iempridee, T; Pimtong, W; Pornpakakul, S; Chanchao, C	In vitro and in vivo characterization of the anticancer activity of Thai stingless bee (<i>Tetragonula laeviceps</i>) cerumen	EXPERIMENTAL BIOLOGY AND MEDICINE	2016	241	2	166	176		10.1177/1535370215600102
295	Bates, RW; Vilaivan, T; Apparao, SP; Ho, TT	Synthesis of a Tetrahydrofuranyl -Amino Acid for Peptide Nucleic Acid Construction	SYNLETT	2016	27	1	93	95		10.1055/s-0035-1560649
296	Kongpeth, J; Jampasa, S; Chaumpluk, P; Chailapakul, O; Vilaivan, T	Immobilization-free electrochemical DNA detection with anthraquinone-labeled pyrrolidinyl peptide nucleic acid probe	TALANTA	2016	146		318	325		10.1016/j.talanta.2015.08.059
297	Upan, J; Reanpang, P; Chailapakul, O; Jakmunee, J	Flow injection amperometric sensor with a carbon nanotube modified screen printed electrode for determination of hydroquinone	TALANTA	2016	146		766	771		10.1016/j.talanta.2015.06.026
298	Duong, TH; Chavasiri, W; Boustie, J; Nguyen, KPP	New meta-depsidones and diphenyl ethers from the lichen <i>Parmotrema tsavoense</i> (Krog & Swinscow) Krog & Swinscow, Parmeliaceae	TETRAHEDRON	2015	71	52	9684	9691		10.1016/j.tet.2015.06.107
299	Buahorm, S; Puthong, S; Palaga, T; Lirdprapamongkol, K; Phuwapraisirisan, P; Svasti, J; Chanchao, C	Cardanol isolated from Thai <i>Apis mellifera</i> propolis induces cell cycle arrest and apoptosis of BT-474 breast cancer cells via p21 upregulation	DARU-JOURNAL OF PHARMACEUTICAL SCIENCES	2015	23				55	10.1186/s40199-015-0138-1
300	Jeenpadiphat, S; Bjork, EM; Oden, M; Tungasmita, DN	Propylsulfonic acid functionalized mesoporous silica catalysts for esterification of fatty acids	JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL	2015	410		253	259		10.1016/j.molcata.2015.10.002
301	Kaewtong, C; Pulpoka, B; Tuntulani, T	Reversible fluorescent and colorimetric rhodamine based-chemosensor of Cu ²⁺ contact ion-pairs using a ditopic receptors	DYES AND PIGMENTS	2015	123		204	211		10.1016/j.dyepig.2015.08.001
302	Sujaree, K; Kitjaruwankul, S; Boonamnaj, P; Supunyabut, C;	Transmembrane Helix Assembly by Max-Min Ant System Algorithm	CHEMICAL BIOLOGY & DRUG DESIGN	2015	86	6	1360	1372		10.1111/cbdd.12600

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303	Pan-In, P; Wongsomboon, A; Kokpol, C; Chaichanawongsaroj, N;	Depositing alpha-mangostin nanoparticles to sebaceous gland area for acne treatment	JOURNAL OF PHARMACOLOGICAL SCIENCES	2015	129	4	226	232		10.1016/j.jphs.2015.11.005
304	Vongachariya, A; Parasuk, V	Stabilities and mechanical and electronic properties on BN doped zigzag single-wall carbon	SOLID STATE COMMUNICATIONS	2015	223		28	31		10.1016/j.ssc.2015.09.006
305	Reamtong, O; Srimuang, K; Saralamba, N; Sangvanich, P; Day, NPJ; White, NJ;	Protein profiling of mefloquine resistant Plasmodium falciparum using mass spectrometry-	INTERNATIONAL JOURNAL OF MASS SPECTROMETRY	2015	391		82	92		10.1016/j.ijms.2015.09.009
306	Amornkitbamrung, L; Pienpinijtham, P; Thammacharoen, C; Ekgasit, S	Formation and self-assembly growth of palladium nanospheres into flowerlike microstructures using hydrogen peroxide as a sole reducing and shape-controlling agent	JOURNAL OF NANOPARTICLE RESEARCH	2015	17	11			446	10.1007/s11051-015-3259-z
307	Chokboribal, J; Tachaboonyakiat, W; Sangvanich, P; Ruangpornvisuti, V; Jettanacheawchankit, S; Thunyakitpisal,	Deacetylation affects the physical properties and bioactivity of acemannan, an extracted polysaccharide from Aloe vera	CARBOHYDRATE POLYMERS	2015	133		556	566		10.1016/j.carbpol.2015.07.039
308	Tree-Udom, T; Seemork, J; Shyou, K; Hamada, T; Sangphech, N; Palaga, T;	Shape Effect on Particle-Lipid Bilayer Membrane Association, Cellular Uptake, and Cytotoxicity	ACS Applied Materials & Interfaces	2015	7	43	23993	24000		10.1021/acsami.5b06781
309	Sangsuwan, A; Narupai, B; Sae-ung, P; Rodtamai, S; Rodthongkum, N; Hoven, VP	Patterned Poly(acrylic acid) Brushes Containing Gold Nanoparticles for Peptide Detection by Surface-Assisted Laser Desorption/Ionization Mass Spectrometry	ANALYTICAL CHEMISTRY	2015	87	21	10738	10746		10.1021/acs.analchem.5b00734
310	Herdman, MT; Sriboonvorakul, N; Leopold, SJ; Douthwaite, S; Mohanty, S; Hassan, MMU; Maude, RJ; Kingston, HWF; Plewes, K; Charunwatthana, P; Silamut, K; Woodrow, CJ; Ghose, A; Chotinavich, K; Hossain, MA; Faiz, MA;	the role of previously unmeasured organic acids in the pathogenesis of severe malaria (vol 19, 317, 2015)	CRITICAL CARE	2015	19				382	10.1186/s13054-015-1116-1
311	Chanchao, C; Buahorm, S; Palaga, T; Phuwapraisirisan, P; Puthong, S;	Mechanism of cardanol isolated from Thai propolis on apoptosis of BT474 breast cancer cells	PLANTA MEDICA	2015	81	16	1456	1456		
312	Kustiawan, PM; Arung, ET; Phuwapraisirisan, P; Puthong, S; Palaga, T; Chanchao, C	Exploration of apoptotic effect in cancer cells treated with stingless bee Trigona incisa propolis native to East Kalimantan, Indonesia	PLANTA MEDICA	2015	81	16	1498	1498		
313	Duanglaor, P; Thiampanya, P; Sudyoadsuk, T; Promarak, V; Pulpoka, B	Synthesis and photophysical properties of donor-acceptor system based bipyridylporphyrins for dye-sensitized solar cells	JOURNAL OF ENERGY CHEMISTRY	2015	24	6	779	785		10.1016/j.jechem.2015.10.016
314	Reanpang, P; Themsirimongkon, S; Saipanya, S; Chailapakul, O; Jakmune, J	Cost-effective flow injection amperometric system with metal nanoparticle loaded carbon nanotube modified screen printed carbon electrode for sensitive determination of	TALANTA	2015	144		868	874		10.1016/j.talanta.2015.07.041
315	Talalak, K; Noiphung, J; Songjaroen, T; Chailapakul, O; Laiwattanapaisa, W	A facile low-cost enzymatic paper-based assay for the determination of urine creatinine	TALANTA	2015	144		915	921		10.1016/j.talanta.2015.07.040
316	Tamiyakul, S; Ubolcharoen, W; Tungasmita, DN; Jongpatiwut, S	Conversion of glycerol to aromatic hydrocarbons over Zn-promoted HZSM-5 catalysts	CATALYSIS TODAY	2015	256		325	335		10.1016/j.cattod.2014.12.030
317	Ngamdee, K; Puangmali, T; Tuntulani, T; Ngeontae, W	Circular dichroism sensor based on cadmium sulfide quantum dots for chiral identification and detection of penicillamine	ANALYTICA CHIMICA ACTA	2015	898		93	100		10.1016/j.aca.2015.09.038
318	Meebungpraw, J; Wiarachai, O; Vilaivan, T; Kiatkamjornwong, S; Hoven, VP	Quaternized chitosan particles as ion exchange supports for label-free DNA detection using PNA probe and MALDI-TOF mass spectrometry	CARBOHYDRATE POLYMERS	2015	131		80	89		10.1016/j.carbpol.2015.05.043

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319	Ramadhan, R; Phuwapraisiran, P	New arylalkanonones from <i>Horsfieldia macrobotrys</i> , effective antidiabetic agents concomitantly inhibiting alpha-glucosidase and free radicals	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2015	25	20	4529	4533		10.1016/j.bmcl.2015.08.069
320	Chainok, K; Duangthongyou, T; Tuntulani, T; Chuenka, A; Wannalarse, B	The crystal structure of 2-[5-(dimethyl-amino)naphthalene-1-sulfonamido]- phenyl 5-(dimethylamino)naphthalene-1-sulfonate	ACTA CRYSTALLOGRAPHICA SECTION E- CRYSTALLOGRAPHIC	2015	71		0721	U244		10.1107/S2056989015016199
321	Sintupachee, S; Promden, W; Ngamrojanavanich, N; Sitthithaworn, W; De-Eknamkul, W	Functional expression of a putative geraniol 8-hydroxylase by reconstitution of bacterially expressed plant CYP76F45 and NADPH-cytochrome P450 reductase CPR I from <i>Croton</i>	PHYTOCHEMISTRY	2015	118		204	215		10.1016/j.phytochem.2015.08.005
322	Aramwit, P; Ekasit, S; Yamdech, R	The development of non-toxic ionic-crosslinked chitosan-based microspheres as carriers for the controlled release of silk sericin	BIOMEDICAL MICRODEVICES	2015	17	5			84	10.1007/s10544-015-9991-4
323	Sriboonvorakul, N; Leepipatpiboon, N; Pukrittayakamee, S; Wongravee, K; Yutavorasit, S; Sukthana, Y; Day, NPJ;	ASSESSMENT OF ACIDOSIS PROFILE IN PATIENTS WITH SEVERE MALARIA USING INNOVATIVE TECHNIQUE	AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE	2015	93	4	76	76		
324	Herdman, MT; Sriboonvorakul, N; Leopold, SJ; Douthwaite, S; Mohanty, S; Hassan, MMU; Maude, RJ; Kingston, HWF; Plewes, K; Charunwathana, P; Silamut, K; Woodrow, CJ; Chotinavich,	The role of previously unmeasured organic acids in the pathogenesis of severe malaria	CRITICAL CARE	2015	19				317	10.1186/s13054-015-1023-5
325	Nantaphol, S; Chailapakul, O; Siangproh, W	A novel paper-based device coupled with a silver nanoparticle-modified boron-doped diamond electrode for cholesterol detection	ANALYTICA CHIMICA ACTA	2015	891		136	143		10.1016/j.aca.2015.08.007
326	Kongkaew, S; Yotmanee, P; Rungrotmongkol, T; Kaiyawet, N; Meeprasert, A; Kaburaki, T; Noguchi, H;	Molecular Dynamics Simulation Reveals the Selective Binding of Human Leukocyte Antigen Alleles Associated with BehCet's Disease	PLOS ONE	2015	10	9			e0135575	10.1371/journal.pone.0135575
327	Yakoh, A; Pinyorosphathum, C; Siangproh, W; Chailapakul, O	Biomedical Probes Based on Inorganic Nanoparticles for Electrochemical and Optical Spectroscopy Applications	SENSORS	2015	15	9	21427	21477		10.3390/s150921427
328	Khuntawee, W; Wolschann, P; Rungrotmongkol, T; Wong-ekkabut, J;	Molecular Dynamics Simulations of the Interaction of Beta Cyclodextrin with a Lipid	JOURNAL OF CHEMICAL INFORMATION AND MODELING	2015	55	9	1894	1902		10.1021/acs.jcim.5b00152
329	Kaennakam, S; Siripong, P; Tip-pyang, S	Velucarpins A-C, three new pterocarpans and their cytotoxicity from the roots of <i>Dalbergia</i>	FITOTERAPIA	2015	105		165	168		10.1016/j.fitote.2015.07.004
330	Miyazawa, M; Nakashima, Y; Nakahashi, H; Hara, N; Nakagawa, H; Usami, A; Chavasiri, W	Volatile Compounds with Characteristic Odor of Essential Oil from <i>Magnolia obovata</i> Leaves by Hydrodistillation and Solvent-assisted Flavor Evaporation	JOURNAL OF OLEO SCIENCE	2015	64	9	999	1007		10.5650/jos.ess15114
331	Dutta, S; Reamtong, O; Panvongsa, W; Kitdumrongthum, S; Janpipatkul, K; Sangvanich, P; Piyachaturawat, P;	Proteomics profiling of cholangiocarcinoma exosomes: A potential role of oncogenic protein transferring in cancer progression	BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR BASIS OF DISEASE	2015	1852	9	1989	1999		10.1016/j.bbadis.2015.06.024
332	Ngamdee, K; Tuntulani, T; Ngeontae, W	L-Cysteine modified luminescence nanomaterials as fluorescence sensor for Co ²⁺ : Effects of core nanomaterials in detection selectivity	SENSORS AND ACTUATORS B-CHEMICAL	2015	216		150	158		10.1016/j.snb.2015.04.019
333	Sridaeng, D; Limsirinawa, A; Sirojpornphasut, P; Chawiwannakorn, S; Chantarasiri, N	Metal acetylacetonate-amine and metal nitrate-amine complexes as low-emission catalysts for rigid polyurethane foam preparation	JOURNAL OF APPLIED POLYMER SCIENCE	2015	132	31			42332	10.1002/app.42332

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334	Kloypan, C; Srisa-art, M; Mutirangura, A; Boonla, C	LINE-1 hypomethylation induced by reactive oxygen species is mediated via depletion of S-adenosylmethionine	CELL BIOCHEMISTRY AND FUNCTION	2015	33	6	375	385		10.1002/cbf.3124
335	Chosrowjan, H; Taniguchi, S; Tanaka, F	Ultrafast fluorescence upconversion technique and its applications to proteins	FEBS JOURNAL	2015	282	16	3003	3015		10.1111/febs.13180
336	Lertvachirapaiboon, C; Parnklang, T; Pienpinijtham, P; Wongravee, K;	Selective colors reflection from stratified aragonite calcium carbonate plates of mollusk	JOURNAL OF STRUCTURAL BIOLOGY	2015	191	2	184	189		10.1016/j.jsb.2015.06.015
337	Sichaem, J; Rojpitikul, T; Sawasdee, P; Lugsanangarm, K; Tip-pyang, S	Furoquinoline Alkaloids from the Leaves of Evodia lepta as Potential Cholinesterase Inhibitors and their Molecular Docking	NATURAL PRODUCT COMMUNICATIONS	2015	10	8	1359	1362		
338	Gulprasertrat, N; Chapromma, J; Aree, T; Sritana-anant, Y	Synthesis of functionalizable derivatives of 3,4-ethylenedioxythiophene and their solid-state polymerizations	JOURNAL OF APPLIED POLYMER SCIENCE	2015	132	28			42233	10.1002/app.42233
339	Puripat, M; Ramozzi, R; Hatanaka, M; Parasuk, W; Parasuk, V; Morokuma, K	The Biginelli Reaction Is a Urea-Catalyzed Organocatalytic Multicomponent Reaction	JOURNAL OF ORGANIC CHEMISTRY	2015	80	14	6959	6967		10.1021/acs.joc.5b00407
340	Sriwarom, P; Padungros, P; Vilaivan, T	Synthesis and DNA/RNA Binding Properties of Conformationally Constrained Pyrrolidiny PNA with a Tetrahydrofuran Backbone Deriving from	JOURNAL OF ORGANIC CHEMISTRY	2015	80	14	7058	7065		10.1021/acs.joc.5b00890
341	Kumar, S; Sharma, RP; Venugopalan, P; Aree, T; Ferretti, V	The role of steric constraints in the formation of rare aqua bridged coordination polymers: Synthesis, characterization and X-ray structures of polymeric, [Cu(2-chlorobenzoate)(2)(beta-picoline)(2)(mu-H2O))(n) and monomeric, [Cu(2-chlorobenzoate)(2)(gamma-picoline)(2)(H2O)]	JOURNAL OF MOLECULAR STRUCTURE	2015	1092		225	232		10.1016/j.molstruc.2015.03.019
342	Suea-Ngam, A; Rattanasart, P; Chailapakul, O; Srisa-Art, M	Electrochemical droplet-based microfluidics using chip-based carbon paste electrodes for high-throughput analysis in pharmaceutical	ANALYTICA CHIMICA ACTA	2015	883		45	54		10.1016/j.aca.2015.03.008
343	Boonla, C; Kloypan, C; Srisa-art, M; Mutirangura, A	Oxidative stress induces LINE-1 hypomethylation through depletion of S-adenosylmethionine	FEBS JOURNAL	2015	282		57	57		
344	Yotmanee, P; Rungrotmongkol, T; Wichapong, K; Choi, SB; Wahab, HA; Kungwan, N; Hannongbua, S	Binding specificity of polypeptide substrates in NS2B/NS3pro serine protease of dengue virus type 2: A molecular dynamics Study	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	2015	60		24	33		10.1016/j.jmgm.2015.05.008
345	Fujita, K; Chavasiri, W; Kubo, I	Anti-Salmonella Activity of Volatile Compounds of Vietnam Coriander	PHYTOTHERAPY RESEARCH	2015	29	7	1081	1087		10.1002/ptr.5351
346	Vinayavekhin, N; Mahipant, G; Vangnai, AS; Sangvanich, P	Untargeted metabolomics analysis revealed changes in the composition of glycerolipids and phospholipids in Bacillus subtilis under 1-butanol	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2015	99	14	5971	5983		10.1007/s00253-015-6692-0
347	Boonyasit, Y; Heiskanen, A; Chailapakul, O; Laiwattanapaisai, W	Selective label-free electrochemical impedance measurement of glycated haemoglobin on 3-aminophenylboronic acid-modified eggshell membranes	ANALYTICAL AND BIOANALYTICAL CHEMISTRY	2015	407	18	5287	5297		10.1007/s00216-015-8680-8
348	Lugsanangarm, K; Nueangaudom, A; Kokpol, S; Pianwanit, S; Nunthaboot, N; Tanaka, F; Taniguchi, S; Chosrowjan, H	Heterogeneous subunit structures in the pyranose 2-oxidase homotetramer revealed by theoretical analysis of the rates of photoinduced electron transfer from a tryptophan to the	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2015	306		66	79		10.1016/j.jphotochem.2015.03.016
349	Worawalai, W; Wacharasindhu, S; Phuwapraisirisan, P	N-Arylmethylaminoquercitols, a new series of effective antidiabetic agents having alpha-glucosidase inhibition and antioxidant activity	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2015	25	12	2570	2573		10.1016/j.bmcl.2015.04.033

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350	Wang, F; Gao, WW; Thamphiwatana, S; Luk, BT; Angsantikul, P; Zhang, QZ; Hu, CMJ; Fang, RH; Copp, JA;	Hydrogel Retaining Toxin-Absorbing Nanosponges for Local Treatment of Methicillin-Resistant Staphylococcus aureus Infection	ADVANCED MATERIALS	2015	27	22	3437	3443		10.1002/adma.201501071
351	Kitjaruwankul, S; Boonamnaj, P; Fuklang, S; Supunyabut, C; Sompornpisut, P	Shaping the Water Crevise To Accommodate the Voltage Sensor in a Down Conformation: A Molecular Dynamics Simulation Study	JOURNAL OF PHYSICAL CHEMISTRY B	2015	119	22	6516	6524		10.1021/acs.jpcb.5b00787
352	Supunyabut, C; Fuklang, S; Sompornpisut, P	Continuum electrostatic approach for evaluating positions and interactions of proteins in a bilayer membrane	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	2015	59		81	91		10.1016/j.jmgm.2015.04.003
353	Ngokpol, S; Suwakulsiri, W; Sureram, S; Lirdprapamongkol, K; Aree, T; Wiyakrutta, S; Mahidol, C; Ruchirawat,	Drimane Sesquiterpene-Conjugated Amino Acids from a Marine Isolate of the Fungus Talaromyces minioluteus (Penicillium Minioluteum)	MARINE DRUGS	2015	13	6	3567	3580		10.3390/md13063567
354	Vilaivan, T	Pyrrrolidinyl PNA with alpha/beta-Dipeptide Backbone: From Development to Applications	ACCOUNTS OF CHEMICAL RESEARCH	2015	48	6	1645	1656		10.1021/acs.accounts.5b00080
355	Srisurichan, S; Pornpakakul, S	Triterpenoids from the seedpods of Holarrhena curtisii King and Gamble	PHYTOCHEMISTRY LETTERS	2015	12		282	286		10.1016/j.phytol.2015.04.013
356	Mongkol, R; Chavasiri, W; Ishida, M; Matsuda, K; Morimoto, M	Phytotoxic and antiphytopathogenic compounds from Thai Alpinia galanga (L.) Willd. rhizomes	WEED BIOLOGY AND MANAGEMENT	2015	15	2	87	93		10.1111/wbm.12071
357	Nguyen, THT; Pham, HVT; Pham, NKT; Quach, NDP; Pudhom, K; Hansen, PE; Nguyen, KPP	Chemical constituents from Sonneratia ovata Backer and their in vitro cytotoxicity and acetylcholinesterase inhibitory activities	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2015	25	11	2366	2371		10.1016/j.bmcl.2015.04.017
358	Ruecha, N; Rodthongkum, N; Cate, DM; Volckens, J; Chailapakul, O; Henry, CS	Sensitive electrochemical sensor using a graphene-polyaniline nanocomposite for simultaneous detection of Zn(II), Cd(II), and Pb(II)	ANALYTICA CHIMICA ACTA	2015	874		40	48		10.1016/j.aca.2015.02.064
359	Nunthaboot, N; Lugsanangarm, K; Nueangaudom, A; Pianwanit, S; Kokpol, S; Tanaka, F	Role of the electrostatic energy between the photo-products and ionic groups on the photoinduced electron transfer rates from aromatic amino acids to the excited flavin in five single-point substitution isoforms of the charged amino acid residue-13 in the FMN-binding protein	MOLECULAR SIMULATION	2015	41	7	580	591		10.1080/08927022.2014.902534
360	Leevutinin, P; Krisadaphong, P; Petsom, A	Clinical evaluation of Gac extract (Momordica cochinchinensis) in an antiwrinkle cream	JOURNAL OF COSMETIC SCIENCE	2015	66	3	175	187		
361	Paosawatyanong, B; Thitianan, S; Bhanthumnavin, B; Promros, N; Wong, CS	Plasma Parameter Analysis During Nano-Crystalline Diamond Growth Using Automated Langmuir Probe	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2015	12	5	894	900		10.1166/jctn.2015.3824
362	Tewtrakul, S; Chaniad, P; Pianwanit, S; Karalai, C; Ponglimanont, C; Yodsaoe, O	Anti-HIV-1 Integrase Activity and Molecular Docking Study of Compounds from	PHYTOTHERAPY RESEARCH	2015	29	5	724	729		10.1002/ptr.5307
363	Ntoukam, DHS; Jiworrawathanakul, S; Hoven, VP; Luinstra, GA; Theato, P	1,1-Disubstituted-2-vinylcyclopropanes for the synthesis of amphiphilic polymers	EUROPEAN POLYMER JOURNAL	2015	66		319	327		10.1016/j.eurpolymj.2015.02.023
364	Graisuwan, W; Zhao, H; Kiatkamjornwong, S; Theato, P; Hoven, VP	Formation of Thermo-Sensitive and Cross-Linkable Micelles by Self-Assembly of Poly(pentafluorophenyl acrylate)-Containing	JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY	2015	53	9	1103	1113		10.1002/pola.27541
365	Hongnak, S; Jongaramruong, J; Khumkratok, S; Siriphong, P; Tip-pyang, S	Chemical Constituents and Derivatization of Melodorinol from the Roots of Melodorum	NATURAL PRODUCT COMMUNICATIONS	2015	10	4	633	636		
366	Tedsana, W; Tuntulani, T; Ngeontae, W	A circular dichroism sensor for Ni2+ and Co2+ based on L-cysteine capped cadmium sulfide	ANALYTICA CHIMICA ACTA	2015	867		1	8		10.1016/j.aca.2014.12.004
367	Kongprathet, T; Wanichwecharungruang, S	Sustaining guest molecules on bio-surfaces by grafting the surfaces with cyclodextrins	CARBOHYDRATE POLYMERS	2015	119		110	117		10.1016/j.carbpol.2014.11.051

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368	Jainae, K; Sukpirom, N; Fuangswasdi, S; Unob, F	Adsorption of Hg(II) from aqueous solutions by thiol-functionalized polymer-coated magnetic	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY	2015	23		273	278		10.1016/j.jiec.2014.08.028
369	Chaiyo, S; Siangproh, W; Apilux, A; Chailapakul, O	Highly selective and sensitive paper-based colorimetric sensor using thiosulfate catalytic etching of silver nanoplates for trace determination of copper ions	ANALYTICA CHIMICA ACTA	2015	866		75	83		10.1016/j.aca.2015.01.042
370	Sittiwong, J; Unob, FF	Detection of urinary creatinine using gold nanoparticles after solid phase extraction	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR	2015	138		381	386		10.1016/j.saa.2014.11.080
371	Sridaeng, D; Sukkaneeawat, B; Chueasakol, N; Chantarasiri, N	Copper-amine complex solution as a low-emission catalyst for flexible polyurethane foam	E-POLYMERS	2015	15	2	119	126		10.1515/epoly-2014-0197
372	Srinonate, A; Banlunara, W; Maneewattanapinyo, P; Thammacharoen, C; Ekgasit, S; Kaewamatawong, T	Acute Toxicity Study of Nanosilver Particles in Tilapia (<i>Oreochromis niloticus</i>): Pathological Changes, Particle Bioaccumulation and Metallothionein Protein Expression	THAI JOURNAL OF VETERINARY MEDICINE	2015	45	1	81	89		
373	Sarigaputi, C; Sangpech, N; Palaga, T; Pudhom, K	Suppression of Inducible Nitric Oxide Synthase Pathway by 7-Deacetylgedunin, a Limonoid from <i>Xylocarpus</i> sp.	PLANTA MEDICA	2015	81	4	312	319		10.1055/s-0034-1396308
374	Parnklang, T; Lamlua, B; Gatemala, H; Thammacharoen, C; Kuimalee, S; Lohwongwatana, B; Ekgasit, S	Shape transformation of silver nanospheres to silver nanoplates induced by redox reaction of hydrogen peroxide	MATERIALS CHEMISTRY AND PHYSICS	2015	153		127	134		10.1016/j.matchemphys.2014.12.044
375	Choksakulporn, S; Punkvang, A; Sritana-Anant, Y	Synthesis and amino acids complexation of tripodal hexasubstituted benzene chiral receptors	JOURNAL OF MOLECULAR STRUCTURE	2015	1082		97	102		10.1016/j.molstruc.2014.10.059
376	Ninsonti, H; Hara, K; Nootchanat, S; Chomkitichai, W; Baba, A; Phanichphant, S; Shinbo, K; Kato, K;	Enhanced Photocurrent Generation at a Spiro-OMeTAD/AuNPs-TiO ₂ Interface with Grating-coupled Surface Plasmon Excitation	IEICE TRANSACTIONS ON ELECTRONICS	2015	E98C	2	104	109		10.1587/transele.E98.C.104
377	Kaiyawet, N; Lonsdale, R; Rungrotmongkol, T; Mulholland, AJ; Hannongbua, S	High-Level QM/MM Calculations Support the Concerted Mechanism for Michael Addition and Covalent Complex Formation in Thymidylate	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	2015	11	2	713	722		10.1021/ct5005033
378	Sabphon, C; Temkitthawon, P; Ingkaninan, K; Sawasdee, P	Phosphodiesterase Inhibitory Activity of the Flavonoids and Xanthones from <i>Anaxagorea luzonensis</i>	NATURAL PRODUCT COMMUNICATIONS	2015	10	2	301	303		
379	Ramadhan, R; Phuwapraisirisan, P	Arylalkanones from <i>Horsfieldia macrobotrys</i> are Effective Antidiabetic Agents Achieved by alpha-Glucosidase Inhibition and Radical Scavenging	NATURAL PRODUCT COMMUNICATIONS	2015	10	2	325	328		
380	Chansuvarn, W; Tuntulani, T; Imyim, A	Colorimetric detection of mercury(II) based on gold nanoparticles, fluorescent gold nanoclusters and other gold-based nanomaterials	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	2015	65		83	96		10.1016/j.trac.2014.10.013
381	Schierz, P; Fritzsche, S; Janke, W; Hannongbua, S; Saengsawang, O;	MD simulations of hydrogen diffusion in ZIF-11 with a force field fitted to experimental	MICROPOROUS AND MESOPOROUS MATERIALS	2015	203		132	138		10.1016/j.micromeso.2014.10.031
382	Nantaphol, S; Chailapakul, O; Siangproh, W	Sensitive and selective electrochemical sensor using silver nanoparticles modified glassy carbon electrode for determination of cholesterol in	SENSORS AND ACTUATORS B-CHEMICAL	2015	207		193	198		10.1016/j.snb.2014.10.041
383	Promphet, N; Rattanasat, P; Rangkupan, R; Chailapakul, O; Rodthongkum, N	An electrochemical sensor based on graphene/polyaniline/polystyrene nanoporous fibers modified electrode for simultaneous determination of lead and cadmium	SENSORS AND ACTUATORS B-CHEMICAL	2015	207		526	534		10.1016/j.snb.2014.10.126

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384	Chaiendoo, K; Tuntulani, T; Ngeontae, W	A highly selective colorimetric sensor for ferrous ion based on polymethylacrylic acid-templated silver nanoclusters	SENSORS AND ACTUATORS B-CHEMICAL	2015	207		658	667		10.1016/j.snb.2014.10.062
385	Yudthavorasit, S; Meecharoen, W; Leepipatpiboon, N	New practical approach for using an analyte protectant for priming in routine gas chromatographic analysis	FOOD CONTROL	2015	48		25	32		10.1016/j.foodcont.2014.05.005
386	Charoenkitamorn, K; Chailapakul, O; Siangproh, W	Development of gold nanoparticles modified screen-printed carbon electrode for the analysis of thiram, disulfiram and their derivative in food using ultra-high performance liquid	TALANTA	2015	132		416	423		10.1016/j.talanta.2014.09.020
387	Ratanasak, M; Rungrotmongkol, T; Saengsawang, O; Hannongbua, S; Parasuk, V	Towards the design of new electron donors for Ziegler-Natta catalyzed propylene polymerization using QSPR modeling	POLYMER	2015	56		340	345		10.1016/j.polymer.2014.11.022
388	Kaur, N; Kaur, K; Raj, T; Kaur, G; Singh, A; Aree, T; Park, SJ; Kim, TJ; Singh, N;	One-pot synthesis of tricyclic dihydropyrimidine derivatives and their biological evaluation	TETRAHEDRON	2015	71	2	332	337		10.1016/j.tet.2014.11.039
389	Antoni, PM; Naik, A; Albert, I; Rubbiani, R; Gupta, S; Ruiz-Sanchez, P; Munikorn, P; Mateos, JM; Luginbuehl, V;	(Metallo)porphyrins as Potent Phototoxic Anti-Cancer Agents after Irradiation with Red Light	CHEMISTRY-A EUROPEAN JOURNAL	2015	21	3	1179	1183		10.1002/chem.201405470
390	Ganihigama, DU; Sureram, S; Sangher, S; Hongmanee, P; Aree, T; Mahidol, C; Ruchirawat, S; Kittakoo, P	Antimycobacterial activity of natural products and synthetic agents: Pyrrolodiquinolines and vermelhotin as anti-tubercular leads against clinical multidrug resistant isolates of	EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY	2015	89		1	12		10.1016/j.ejmech.2014.10.026
391	Tree-Udom, T; Thamyongkit, P; Wiratkasem, N; Chanchao, C; Palaga, T; Insin, N; Rengpipat, S; Pienpinijtham, P;	Harmonization of upconverting nanocrystals and photosensitizer for antimicrobial application	RSC ADVANCES	2015	5	124	102416	102423		10.1039/c5ra18373a
392	Sanguansap, Y; Ruangpornvisuti, V; Tuntulani, T; Promarak, V; Tomapatanaget, B	Highly promising discrimination of various catecholamines using ratiometric fluorescence probes with intermolecular self-association of two sensing elements	RSC ADVANCES	2015	5	96	78468	78475		10.1039/c5ra10321e
393	Songsurang, K; Siraleartmukul, K; Muangsin, N	Muoadhesive drug carrier based on functional-modified cellulose as poorly water-soluble drug delivery system	JOURNAL OF MICROENCAPSULATION	2015	32	5	450	459		10.3109/02652048.2015.1046516
394	Panthong, P; Bunluepuech, K; Boonnak, N; Chaniad, P; Pianwanit, S;	Anti-HIV-1 integrase activity and molecular docking of compounds from Albizia procera bark	PHARMACEUTICAL BIOLOGY	2015	53	12	1861	1866		10.3109/13880209.2015.1014568
395	Pienpinijtham, P; Sornprasit, P; Wongravee, K; Thammacharoen, C; Ekgasit, S	Gold microspheres having nano/microporous structures fabricated by ultrasonic-assisted cyclic galvanic replacement	RSC ADVANCES	2015	5	95	78315	78323		10.1039/c5ra11193e
396	Mungkarndee, R; Tumcharern, G; Thiramanus, R; Techakriengkrai, I;	Fluorescence sensor arrays for identification of foodborne pathogens	ANALYTICAL METHODS	2015	7	18	7431	7435		10.1039/c5ay00797f
397	Raksasorn, D; Namuangruk, S; Prachumrak, N; Sudyoadsuk, T;	Synthesis and characterization of hole-transporting star-shaped carbazoyl truxene	RSC ADVANCES	2015	5	89	72841	72848		10.1039/c5ra12011j
398	Bohlender, PR; Vilaivan, T; Wagenknecht, HA	Strand displacement and duplex invasion into double-stranded DNA by pyrrolidinyl peptide	ORGANIC & BIOMOLECULAR CHEMISTRY	2015	13	35	9223	9230		10.1039/c5ob01273b
399	Niamnont, N; Promchat, A; Siangma, C; Pramaulpornsatit, C; Sukwattanasitt,	A novel phenylacetylene-indolium fluorophore for detection of cyanide by the naked eye	RSC ADVANCES	2015	5	79	64763	64768		10.1039/c5ra10273a
400	Gatemala, H; Pienpinijtham, P; Thammacharoen, C; Ekgasit, S	Rapid fabrication of silver microplates under an oxidative etching environment consisting of O-2/Cl-, NH4OH/H2O2, and H2O2	CRYSTENGCOMM	2015	17	29	5530	5537		10.1039/c5ce00603a

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401	Tanaka, F; Lugsanangarm, K; Nunthaboot, N; Nueangaudom, A; Pianwanit, S; Kokpol, S; Taniguchi, S;	Classification of the mechanisms of photoinduced electron transfer from aromatic amino acids to the excited flavins in flavoproteins	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2015	17	26	16813	16825		10.1039/c5cp01432h
402	Chaianansutcharit, S; Hosoi, K; Hyodo, J; Ju, YW; Ishihara, T	Ruddlesden Popper oxides of $\text{LnSr}(3)\text{Fe}(3)\text{O}(10\text{-delta})$ ($\text{Ln} = \text{La}, \text{Pr}, \text{Nd}, \text{Sm}, \text{Eu}$, and Gd) as active cathodes for low temperature solid oxide fuel	JOURNAL OF MATERIALS CHEMISTRY A	2015	3	23	12357	12366		10.1039/c5ta01273b
403	Boonkitpatarakul, K; Yodta, Y; Niamnont, N; Sukwattanasinitt, M	Fluorescent phenylethynylene calix[4]arenes for sensing TNT in aqueous media and vapor phase	RSC ADVANCES	2015	5	42	33306	33311		10.1039/c5ra02758f
404	Arunchai, R; Sudyoadsuk, T; Prachumrak, N; Namuangruk, S; Promarak, V; Sukwattanasinitt, M;	Synthesis and characterization of new triphenylamino-1,8-naphthalimides for organic light-emitting diode applications	NEW JOURNAL OF CHEMISTRY	2015	39	4	2807	2814		10.1039/c4nj01785d
405	Yeyongchaiwat, J; Nonthawissarut, K; Charojrochkul, S; Sukpirom, N	Compatibility and conductivity of $\text{La}_2\text{Ni}_{1-x}\text{Fe}_x\text{O}_{4+\delta}$ and $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_{3-\delta}$ with GDC electrolyte	ADVANCES IN APPLIED CERAMICS	2015	114	1	1	8		10.1179/1743676114Y.0000000203
406	Rattanarat, P; Teengam, P; Siangproh, W; Ishimatsu, R; Nakano, K; Chailapakul,	An Electrochemical Compact Disk-type Microfluidics Platform for Use as an Enzymatic	ELECTROANALYSIS	2015	27	3	703	712		10.1002/elan.201400590
407	Jirakittiwut, N; Panyain, N; Nuanyai, T; Vilaivan, T; Praneenararat, T	Pyrrolidinyl peptide nucleic acids immobilised on cellulose paper as a DNA sensor	RSC ADVANCES	2015	5	31	24110	24114		10.1039/c4ra15287e
408	Pinrat, O; Boonkitpatarakul, K; Paisuwan, W; Sukwattanasinitt, M; Ajavakom, A	Glucopyranosyl-1,4-dihydropyridine as a new fluorescent chemosensor for selective detection of 2,4,6-trinitrophenol	ANALYST	2015	140	6	1886	1893		10.1039/c4an01843e
409	Kaewchangwat, N; Sukato, R; Vchirawongkwin, V; Vilaivan, T; Sukwattanasinitt, M; Wacharasindhu, S	Direct synthesis of aryl substituted pyrroles from calcium carbide: an underestimated chemical feedstock	GREEN CHEMISTRY	2015	17	1	460	465		10.1039/c4gc01615g
410	Ratanasak, M; Parasuk, V	Roles of malonate donor on activity and stereoselectivity of Ziegler-Natta catalyzed propylene polymerization	JOURNAL OF ORGANOMETALLIC CHEMISTRY	2015	775		6	11		10.1016/j.jorganchem.2014.10.018
411	Wongravee, K; Gatemala, H; Thammacharoen, C; Ekgasit, S;	Nanoporous silver microstructure for single particle surface-enhanced Raman scattering	RSC ADVANCES	2015	5	2	1391	1397		10.1039/c4ra11890a
412	Chinapang, P; Ruangpornvisuti, V; Sukwattanasinitt, M; Rashatasakhon, P	Ferrocenyl derivative of 1,8-naphthalimide as a new turn-on fluorescent sensor for Au(III) ion	DYES AND PIGMENTS	2015	112		236	238		10.1016/j.dyepig.2014.07.013
413	Vchirawongkwin, V; Tongraar, A; Kritayakornupong, C	Characterization of structure and dynamics of the solvated indium(III) ion by an extended QM/MM molecular dynamics simulation	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2014	1050		74	82		10.1016/j.comptc.2014.10.016
414	Pimsen, R; Khumsri, A; Wacharasindhu, S; Tumcharern, G; Sukwattanasinitt, M	Colorimetric detection of dichlorvos using polydiacetylene vesicles with acetylcholinesterase and cationic surfactants	BIOSENSORS & BIOELECTRONICS	2014	62		8	12		10.1016/j.bios.2014.05.069
415	Eab, CH; Lim, SC	Fokker-Planck equation and path integral representation of the fractional Ornstein-Uhlenbeck process with two indices	JOURNAL OF PHYSICS A- MATHEMATICAL AND THEORETICAL	2014	47	49			495203	10.1088/1751-8113/47/49/495203
416	Chaiyo, S; Chailapakul, O; Siangproh, W	Highly sensitive determination of mercury using copper enhancer by diamond electrode coupled with sequential injection-anodic stripping	ANALYTICA CHIMICA ACTA	2014	852		55	62		10.1016/j.aca.2014.09.011
417	Anusiri, P; Choodej, S; Chumriang, P; Adisakwattana, S; Pudhom, K	Inhibitory effects of flavonoids from stem bark of <i>Derris indica</i> on the formation of advanced glycation end products	JOURNAL OF ETHNOPHARMACOLOGY	2014	158		437	441		10.1016/j.jep.2014.10.053
418	Kijprayoon, S; Tolieng, V; Petsom, A;	Molluscicidal activity of <i>Camellia oleifera</i> seed	SCIENCEASIA	2014	40	6	393	399		10.2306/scienceasia1513-1874.2014.40.39:

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419	Hewage, RT; Aree, T; Mahidol, C; Ruchirawat, S; Kittakoop, P	One strain-many compounds (OSMAC) method for production of polyketides, azaphilones, and an isochromanone using the endophytic fungus <i>Dothideomycete</i> sp.	PHYTOCHEMISTRY	2014	108		87	94		10.1016/j.phytochem.2014.09.013
420	Sirawatcharin, S; Saithongdee, A; Chaicham, A; Tomapatanaget, B; Imyim, A; Praphairaksit, N	Naked-eye and Colorimetric Detection of Arsenic(III) Using Difluoroboron-curcumin in Aqueous and Resin Bead Support Systems	ANALYTICAL SCIENCES	2014	30	12	1129	1134		10.2116/analsci.30.1129
421	Sintupachee, S; Ngamrojanayanich, N; Sitthithaworn, W; De-Eknamkul, W	Molecular cloning, bacterial expression and functional characterisation of cytochrome P450 monooxygenase, CYP97C27, and NADPH-cytochrome P450 reductase, CPR I, from <i>Croton stellatopilosus</i> Ohba	PLANT SCIENCE	2014	229		131	141		10.1016/j.plantsci.2014.09.001
422	Nguyen, THT; Pham, NKT; Pudhom, K; Hansen, PE; Nguyen, KPP	Structure elucidation of four new megastigmanes from <i>Sonneratia ovata</i> Backer	MAGNETIC RESONANCE IN CHEMISTRY	2014	52	12	795	802		10.1002/mrc.4132
423	Prapagdee, S; Piyatiratitivorakul, S; Petsom, A; Tawinteung, N	Application of Biochar for Enhancing Cadmium and Zinc Phytostabilization in <i>Vigna radiata</i> L.	WATER AIR AND SOIL POLLUTION	2014	225	12			2233	10.1007/s11270-014-2233-1
424	Worawalai, W; Wacharasindhu, S; Phuwapraisirisan, P	Amine-linked diquercitols as new alpha-glucosidase inhibitors	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2014	24	23	5530	5533		10.1016/j.bmcl.2014.09.064
425	Naganagowda, G; Thamyongkit, P; Klai-U-dom, R; Pengsakut, O; Petsom, A	Synthesis of 3-chloro-N ¹ -(2-hydroxy-6-pentadecylbenzylidene)benzothioephene-2-carbohydrazide	JOURNAL OF SAUDI CHEMICAL SOCIETY	2014	18	6	1011	1014		10.1016/j.jscs.2011.12.005
426	Mokkaphan, J; Banlunara, W; Palaga, T; Sombuntham, P;	Silicone Surface with Drug Nanodepots for Medical Devices	ACS APPLIED MATERIALS & INTERFACES	2014	6	22	20188	20196		10.1021/am505566m
427	Kongsong, M; Songsurang, K; Sangvanich, P; Siralermukul, K; Muangsin, N	Design, synthesis, fabrication and in vitro evaluation of mucoadhesive 5-amino-2-mercaptobenzimidazole chitosan as low water	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS	2014	88	3	986	997		10.1016/j.ejpb.2014.08.016
428	Pisuchpen, T; Intasanta, V; Hoven, VP	Highly porous organic-inorganic hybrid fiber from copolymers of styrene and polyhedral oligomeric silsesquioxane-derived methacrylate: Syntheses, fiber formation and potential modification	EUROPEAN POLYMER JOURNAL	2014	60		38	48		10.1016/j.eurpolymj.2014.08.017
429	Phontree, K; Sichaem, J; Siripong, P; Tip-pyang, S	Chemical Constituents of the Roots of <i>Clerodendrum paniculatum</i>	CHEMISTRY OF NATURAL COMPOUNDS	2014	50	5	950	951		10.1007/s10600-014-1129-z
430	Tachaprutinun, A; Pan-In, P; Samutprasert, P; Banlunara, W; Chaichanawongsaroj, N;	Acrylate-Tethering Drug Carrier: Covalently Linking Carrier to Biological Surface and Application in the Treatment of <i>Helicobacter</i>	BIOMACROMOLECULES	2014	15	11	4239	4248		10.1021/bm501261818
431	Pipornpong, W; Ruangpornvisuti, V	First-principles investigation of ZnO sodalite-like cage binding onto TiO ₂ (001) surface and its ability for CO oxidation to CO ₂	JOURNAL OF MATERIALS SCIENCE	2014	49	21	7620	7624		10.1007/s10853-014-8470-2
432	Aree, T; Burgi, HB; Chernyshov, D; Tornroos, KW	Dynamics and Thermodynamics of Crystalline Polymorphs. 3. gamma-Glycine, Analysis of Variable-Temperature Atomic Displacement Parameters, and Comparison of Polymorph	JOURNAL OF PHYSICAL CHEMISTRY A	2014	118	43	9951	9959		10.1021/jp506659c
433	Watchasit, S; Suktanarak, P; Suksai, C; Ruangpornvisuti, V; Tuntulani, T	Discriminate sensing of pyrophosphate using a new tripodal tetramine-based dinuclear Zn(II) complex under an indicator displacement assay	DALTON TRANSACTIONS	2014	43	39	14701	14709		10.1039/c3dt52392f
434	Ekabutr, P; Sangsanoh, P; Rattanasat, P; Monroe, CW; Chailapakul, O; Supaphol, P	Development of a Disposable Electrode Modified with Carbonized, Graphene-Loaded Nanofiber for the Detection of Dopamine in Human Serum	JOURNAL OF APPLIED POLYMER SCIENCE	2014	131	19			40858	10.1002/APP.40858

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435	Phoonan, W; Deowanish, S; Chavasiri, W	Food attractant from mulberry leaf tea and its main volatile compounds for the biocontrol of <i>Lasioderma serricorne</i> F. (Coleoptera: Anobiidae)	JOURNAL OF STORED PRODUCTS RESEARCH	2014	59		299	305		10.1016/j.jspr.2014.09.004
436	Songngam, S; Sukwattanasinitt, M; Siralertmukul, K; Sawasdee, P	A 5,7-Dimethoxyflavone/Hydroxypropyl-beta-Cyclodextrin Inclusion Complex with Anti-Butyrylcholinesterase Activity	AAPS PHARMSCTECH	2014	15	5	1189	1196		10.1208/s12249-014-0157-0
437	Sermasathanaswadi, J; Pianwanit, S; Pason, P; Waeonukul, R; Tachaapaikoon, C; Ratanakhanokchai, K;	The C-terminal region of xylanase domain in Xyn11A from <i>Paenibacillus curdlanolyticus</i> B-6 plays an important role in structural stability	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2014	98	19	8223	8233		10.1007/s00253-014-5748-x
438	Srisurichan, S; Puthong, S; Pornpakakul, S	Pregnane-type steroidal glycosides from <i>Gymnema griffithii</i> Craib.	PHYTOCHEMISTRY	2014	106		197	206		10.1016/j.phytochem.2014.06.014
439	Paosawatanyong, B; Jermutjarit, P; Bhanthumnavin, W	Graft copolymerization coating of methacryloyloxyethyl diphenyl phosphate flame retardant onto silk surface	PROGRESS IN ORGANIC COATINGS	2014	77	10	1585	1590		10.1016/j.porgcoat.2014.01.023
440	Kiatkumjorn, T; Rattanasat, P; Siangproh, W; Chailapakul, O; Praphairaksit, N	Glutathione and L-cysteine modified silver nanoplates-based colorimetric assay for a simple, fast, sensitive and selective determination of	TALANTA	2014	128		215	220		10.1016/j.talanta.2014.04.085
441	Saithongdee, A; Praphairaksit, N; Imyim, A	Electrospun curcumin-loaded zein membrane for iron(III) ions sensing	SENSORS AND ACTUATORS B-CHEMICAL	2014	202		935	940		10.1016/j.snb.2014.06.036
442	Choppawa, T; Sukwattanasinitt, M; Sahasithiwat, S; Ruangpornvisuti, V; Rashatasakhon, P	Substituent effect on quantum efficiency in 4-aryloxy-N-(2',6'-diisopropylphenyl)-1,8-naphthalimides: Experimental and computational	DYES AND PIGMENTS	2014	109		175	180		10.1016/j.dyepig.2014.05.007
443	Nuntapichedkul, B; Tantayanon, S; Laohasurayotin, K	Practical approach in surface modification of biaxially oriented polypropylene films for gravure	APPLIED SURFACE SCIENCE	2014	314		331	340		10.1016/j.apsusc.2014.06.032
444	Niamnont, N; Khumsri, A; Promchat, A; Tumcharern, G; Sukwattanasinitt, M	Novel salicylaldehyde derivatives as fluorescence turn-on sensors for cyanide ion	JOURNAL OF HAZARDOUS MATERIALS	2014	280		458	463		10.1016/j.jhazmat.2014.08.028
445	Yotapan, N; Charoenpakdee, C; Wathanathavorn, P; Ditmangklo, B;	Synthesis and optical properties of pyrrolidinyl peptide nucleic acid carrying a clicked Nile red	BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY	2014	10		2166	2174		10.3762/bjoc.10.224
446	Trakittiwong, P; Sukpirom, N; Shimazu, S; Chavasiri, W	Iron oxide-pillared clay catalyzed the synthesis of acetonides from epoxides	CATALYSIS COMMUNICATIONS	2014	54		104	107		10.1016/j.catcom.2014.05.002
447	Phontree, K; Sichaem, J; Khumkratok, S; Siripong, P; Tip-pyang, S	Trichostemonate, a New Anticancer Tirucallane from the Stem Bark of <i>Walsura trichostemon</i>	NATURAL PRODUCT COMMUNICATIONS	2014	9	9	1253	1254		
448	Surapinit, S; Jong-aramruang, J; Siripong, P; Khumkratok, S; Tip-pyang, S	Dipterostilbenosides A and B, Oligostilbene Glycosides from <i>Dipterocarpus tuberculatus</i>	NATURAL PRODUCT COMMUNICATIONS	2014	9	9	1323	1326		
449	Sarigaputi, C; Sommit, D; Teerawatananond, T; Pudhom, K	Weakly Anti-inflammatory Limonoids from the Seeds of <i>Xylocarpus rumphii</i>	JOURNAL OF NATURAL PRODUCTS	2014	77	9	2037	2043		10.1021/np5003687
450	Atorngitjawat, P; Pipatpanyanugoon, K; Aree, T	Structure and dielectric relaxations of antibacterial sulfonated polystyrene and silver	POLYMERS FOR ADVANCED TECHNOLOGIES	2014	25	9	1027	1033		10.1002/pat.3347
451	Boonkerd, S; Yompakdee, C; Miyakawa, T; Chavasiri, W	A flavonoid, 5-hydroxy-3,7-dimethoxyflavone, from <i>Kaempferia parviflora</i> Wall. Ex. Baker as an inhibitor of Ca ²⁺ signal-mediated cell-cycle	ANNALS OF MICROBIOLOGY	2014	64	3	1049	1054		10.1007/s13213-013-0742-6
452	Jiraroj, D; Tungasmita, S; Tungasmita, DN	Silver ions and silver nanoparticles in zeolite A composites for antibacterial activity	POWDER TECHNOLOGY	2014	264		418	422		10.1016/j.powtec.2014.05.049
453	Lertvachirapaiboon, C; Jirapisitkul, T; Pienpinijtham, P; Wongravee, K;	Air-gap-enhanced pearlescent effect in periodic stratified bilayers of <i>Perna viridis</i> shell	JOURNAL OF MATERIALS SCIENCE	2014	49	18	6282	6289		10.1007/s10853-014-8353-6

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454	Yudthavorasit, S; Wongravee, K; Leepipatpiboon, N	Characteristic fingerprint based on gingerol derivative analysis for discrimination of ginger (<i>Zingiber officinale</i>) according to geographical origin using HPLC-DAD combined with	FOOD CHEMISTRY	2014	158		101	111		10.1016/j.foodchem.2014.02.086
455	Pan-In, P; Banlunara, W; Chaichanawongsaroj, N;	Ethyl cellulose nanoparticles: Clarithromycin encapsulation and eradication of H-pylori	CARBOHYDRATE POLYMERS	2014	109		22	27		10.1016/j.carbpol.2014.03.025
456	Punwong, C; Martinez, TJ; Hannongbua, S	Direct QM/MM simulation of photoexcitation dynamics in bacteriorhodopsin and halorhodopsin	CHEMICAL PHYSICS LETTERS	2014	610		213	218		10.1016/j.cplett.2014.07.037
457	Vchirawongkwin, S; Kritayakornupong, C; Tongraar, A; Vchirawongkwin, V	Hydration properties determining the reactivity of nitrite in aqueous solution	DALTON TRANSACTIONS	2014	43	32	12164	12174		10.1039/c4dt00273c
458	Davis, BW; Burris, AJ; Niamnont, N; Hare, CD; Chen, CY; Sukwattanasinitt, M; Cheng, Q	Dual-Mode Optical Sensing of Organic Vapors and Proteins with Polydiacetylene (PDA)-Embedded Electrospun Nanofibers	LANGMUIR	2014	30	31	9616	9622		10.1021/la5017388
459	Chavasiri, W; Chanprapai, P	Potent compositions from the essential oil of <i>Polygonum odoratum</i> Lour. against pathogenic rice fungi	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	2014	248					
460	Morimoto, M; Nakamura, Y; Chavasiri, W; Matsuda, K	Structure-activity relationships of a-mangostin and derivatives against termite feeding	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	2014	248					
461	Tantatayanon, S	Achieving work-family harmony	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	2014	248					
462	Chivangkul, T; Pengprecha, S; Padungros, P; Siraleartmukul, K; Prasongsuk, S; Muangsin, N	Enhanced water-solubility and mucoadhesion of N,N,N-trimethyl-N-gluconate-N-homocysteine thiolactone chitosan	CARBOHYDRATE POLYMERS	2014	108		224	231		10.1016/j.carbpol.2014.02.078
463	Lapviboonsuk, J; Leepipatpiboon, N	A simple method for the determination of bisphenol A diglycidyl ether and its derivatives in	ANALYTICAL METHODS	2014	6	15	5666	5672		10.1039/c4ay00757c
464	Kaewpiboon, C; Winayanuwattikun, P; Yongvanich, T; Phuwapraisirisan, P; Assavalapsakul, W	Effect of three fatty acids from the leaf extract of <i>Tiliacora triandra</i> on P-glycoprotein function in multidrug-resistant A549RT-eto cell line	PHARMACOGNOSY MAGAZINE	2014	10	39	549	556		10.4103/0973-1296.139779
465	Lertvachirapaiboon, C; Baba, A; Ekgasit, S; Thammacharoen, C; Shinbo, K; Kato, K; Kaneko, F	Distance-Dependent Surface Plasmon Resonance Coupling Between a Gold Grating Surface and Silver Nanoparticles	PLASMONICS	2014	9	4	899	905		10.1007/s11468-014-9695-2
466	Muangchuen, A; Chaumpluk, P; Suriyasomboon, A; Ekgasit, S	Colorimetric Detection of Ehrlichia Canis via Nucleic Acid Hybridization in Gold Nano-Colloids	SENSORS	2014	14	8	14472	14487		10.3390/s140814472
467	Punrat, E; Chuanuwatanakul, S; Kaneta, T; Motomizu, S; Chailapakul, O	Method development for the determination of mercury(II) by sequential injection/anodic stripping voltammetry using an in situ gold-film screen-printed carbon electrode	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	2014	727		78	83		10.1016/j.jelechem.2014.05.026
468	Pudhom, K; Teerawatananond, T	Rhytidenones A-F, Spirobisnaphthalenes from <i>Rhytidhysterion</i> sp AS21B, an Endophytic Fungus	JOURNAL OF NATURAL PRODUCTS	2014	77	8	1962	1966		10.1021/np500068y
469	Saisavoey, T; Palaga, T; Malaivijitnond, S; Jaroenporn, S; Thongchul, N; Sangvanich, P; Karnchanatat, A	Anti-osteoclastogenic, estrogenic, and antioxidant activities of cell suspension cultures and tuber root extracts from <i>Pueraria mirifica</i>	FOOD SCIENCE AND BIOTECHNOLOGY	2014	23	4	1253	1259		10.1007/s10068-014-0172-7
470	Tupehiangmai, W; Choksakulporn, S; Tewtrakul, S; Pianwanit, S; Sritana-	Use of a Hexasubstituted Benzene Scaffold in the Development of Multivalent HIV-1 Integrase	CHEMICAL & PHARMACEUTICAL BULLETIN	2014	62	8	754	763		
471	Rattanangkool, E; Krailat, W; Vilaivan, T; Phuwapraisirisan, P; Sukwattanasinitt, M; Wacharasindhu, S	Hypervalent Iodine(III)-Promoted Metal-Free S-H Activation: An Approach for the Construction of S-S, S-N, and S-C Bonds	EUROPEAN JOURNAL OF ORGANIC CHEMISTRY	2014		22	4795	4804		10.1002/ejoc.201402180

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472	Kaewtong, C; Niamsa, N; Wanno, B; Morakot, N; Putpoka, B; Tuntulani, T	Optical chemosensors for Hg2+ from terthiophene appended rhodamine derivatives: FRET based molecular and in situ hybrid gold	NEW JOURNAL OF CHEMISTRY	2014	38	8	3831	3839		10.1039/c4nj00412d
473	Pluemanupat, W; Temyarasilp, P; Widhalm, M; Chavasiri, W	Camphorquinone: a new and efficient oxidant for the preparation of 2-thio-substituted benzothiazoles from alcohols by oxidation-	JOURNAL OF SULFUR CHEMISTRY	2014	35	4	418	430		10.1080/17415993.2014.907408
474	Boonyagul, S; Banlunara, W; Sangvanich, P; Thunyakitpisal, P	Effect of acemannan, an extracted polysaccharide from Aloe vera, on BMSCs proliferation, differentiation, extracellular matrix synthesis, mineralization, and bone formation in a tooth extraction model	ODONTOLOGY	2014	102	2	310	317		10.1007/s10266-012-0101-2
475	Surapinit, S; Sri-in, P; Tip-pyang, S	Highly Potent Oligostilbene sbLOX-1 Inhibitor from Gnetum macrostachyum	NATURAL PRODUCT COMMUNICATIONS	2014	9	7	969	972		
476	Wibowo, M; Prachyawarakorn, V; Aree, T; Wiyakrutta, S; Mahidol, C;	Tricyclic and Spirobicyclic Norsesquiterpenes from the Endophytic Fungus	EUROPEAN JOURNAL OF ORGANIC CHEMISTRY	2014		19	3976	3980		10.1002/ejoc.201402262
477	Luesakul, U; Palaga, T; Krusong, K; Ngarnrojanavanich, N; Vilaivan, T;	Synthesis, cytotoxicity, DNA binding and topoisomerase II inhibition of cassiarin A	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS	2014	24	13	2845	2850		10.1016/j.bmcl.2014.04.107
478	Koesukkiwat, U; Sanguankaew, K; Leepipatpiboon, N	Evaluation of a modified QuEChERS method for analysis of mycotoxins in rice	FOOD CHEMISTRY	2014	153		44	51		10.1016/j.foodchem.2013.12.029
479	Boonchiangma, S; Srijaranai, S; Tuntulani, T; Ngeontae, W	A Highly Selective Electrochemical Sensor for L-Tryptophan Based on a Screen-Printed Carbon Electrode Modified with Poly-p-Phenylenediamine and CdS Quantum Dots	JOURNAL OF APPLIED POLYMER SCIENCE	2014	131	11			40356	10.1002/app.40356
480	Yang, BW; Dissayabutra, T; Ungjaroenwathana, W; Tosukhowong, P; Srisa-Art, M; Supaprom, T; Insin, N;	Calcium Oxalate Crystallization Index (COCI): an Alternative Method for Distinguishing Nephrolithiasis Patients from Healthy Individuals	ANNALS OF CLINICAL AND LABORATORY SCIENCE	2014	44	3	262	271		
481	Paoprasert, P; Boonthong, W; Kookarinrat, C; Chantarasiri, N	Preparation of stable polymeric grafted layers on poly(ethylene terephthalate) by thermal	SCIENCEASIA	2014	40	3	224	231	10.2306/scienceasia1513-1874.2014.40.224	
482	Jungsukcharoen, J; Dhiani, BA; Cherdshewasart, W; Vinayavekhin, N;	Pueraria mirifica leaves, an alternative potential isoflavonoid source	BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY	2014	78	6	917	926		10.1080/09168451.2014.910091
483	Yasarawan, N; Thipyapong, K; Ruangpornvisuti, V	Exploring molecular structures, orbital interactions, intramolecular proton-transfer reaction kinetics, electronic transitions and complexation of 3-hydroxycoumarin species	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	2014	51		13	26		10.1016/j.jmgm.2014.04.009
484	Kuanhut, W; Aree, T; Pornpakakul, S; Sawasdee, P	Novel Cucurbitane Triterpenoids and Anti-cholinesterase Activities of Constituents from Momordica charantia L.	NATURAL PRODUCT COMMUNICATIONS	2014	9	6	765	769		
485	Thuesombat, P; Hannongbua, S; Akasit, S; Chadchawan, S	Effect of silver nanoparticles on rice (Oryza sativa L. cv. KDML 105) seed germination and seedling	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	2014	104		302	309		10.1016/j.ecoenv.2014.03.022
486	Thammasoontaree, N; Rattanarat, P; Ruecha, N; Siangproh, W; Rodthongkum, N; Chailapakul, O	Ultra-performance liquid chromatography coupled with graphene/polyaniline nanocomposite modified electrode for the determination of sulfonamide residues	TALANTA	2014	123		115	121		10.1016/j.talanta.2014.02.004
487	Khaodee, W; Aeungmaitrepirom, W; Tuntulani, T	Effectively simultaneous naked-eye detection of Cu(II), Pb(II), Al(III) and Fe(III) using cyanidin extracted from red cabbage as chelating agent	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR	2014	126		98	104		10.1016/j.saa.2014.01.125
488	Sutthiopad, M; Luengviriyi, J; Porjai, P; Tomapatanaget, B; Uller, SCM;	Unpinning of spiral waves by electrical forcing in excitable chemical media	PHYSICAL REVIEW E	2014	89	5			52902	10.1103/PhysRevE.89.052902

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489	Lugsanangarm, K; Kokpol, S; Nueangaudom, A; Pianwanit, S; Nunthaboot, N; Tanaka, F	Structural heterogeneity among four subunits in pyranose 2-oxidase: A molecular dynamics simulation study	JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY	2014	13	3			1440010	10.1142/S0219633614400100
490	Trakarnpruk, W	Platinum/phosphotungstic acid/(Zr)MCM-41 catalysts in glycerol dehydration	MENDELEEV COMMUNICATIONS	2014	24	3	167	169		10.1016/j.mencom.2014.04.015
491	Damsud, T; Grace, MH; Adisakwattana, S; Phuwapraisirisan, P	Orthosiphon A from the Aerial Parts of Orthosiphon aristatus is Putatively Responsible for Hypoglycemic Effect via alpha-Glucosidase	NATURAL PRODUCT COMMUNICATIONS	2014	9	5	639	641		
492	Nantaphol, S; Chailapakul, O; Siangproh, W	Ultrasensitive and Simple Method for Determination of N-Acetyl-L-Cysteine in Drug Formulations Using a Diamond Sensor	ELECTROANALYSIS	2014	26	5	1024	1030		10.1002/elan.201400065
493	Cate, DM; Nanthasurasak, P; Riwkulkajorn, P; L'Orange, C; Henry, CS;	Rapid Detection of Transition Metals in Welding Fumes Using Paper-Based Analytical Devices	ANNALS OF OCCUPATIONAL HYGIENE	2014	58	4	413	423		10.1093/annhyg/met078
494	Mulyani, R; Noviadri, I; Buchari, B; Ciptati, C; Chailapakul, O	Electrochemical Oxidation of Sodium Dodecylbenzenesulphonate, Cetyltrimethyl-ammonium Bromide and Oleic Acid at Platinum and Cobalt Hydroxide Modified Platinum	INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE	2014	9	5	2410	2419		
495	Kakuchi, R; Wongsanoh, K; Hoven, VP; Theato, P	Activation of Stable Polymeric Esters by Using Organo-Activated Acyl Transfer Reactions	JOURNAL OF POLYMER SCIENCE PART A-POLYMER	2014	52	9	1353	1358		10.1002/pola.27124
496	Jampasa, S; Wonsawat, W; Rodthongkum, N; Siangproh, W; Yanatatsaneejit, P; Vilaivan, T; Chailapakul, O	Electrochemical detection of human papillomavirus DNA type 16 using a pyrrolidiny peptide nucleic acid probe immobilized on screen-printed carbon electrodes	BIOSENSORS & BIOELECTRONICS	2014	54		428	434		10.1016/j.bios.2013.11.023
497	Luangkhlaiypho, A; Pattaragulwanit, K; Leepipatpiboon, N; Yompakdee, C	Development of a defined starter culture mixture for the fermentation of sato, a Thai rice-based alcoholic beverage	SCIENCEASIA	2014	40	2	125	134	10.2306/scienceasia1513-1874.2014.40.12	
498	Pengpong, T; Sangvanich, P; Sirilertmukul, K; Muangsins, N	Design, synthesis and in vitro evaluation of mucoadhesive p-coumarate-thiolated-chitosan as a hydrophobic drug carriers	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS	2014	86	3	487	497		10.1016/j.ejpb.2013.11.009
499	Noyrod, P; Chailapakul, O; Wonsawat, W; Chuanuwatanakul, S	The simultaneous determination of isoproturon and carbendazim pesticides by single drop analysis using a graphene-based electrochemical	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	2014	719		54	59		10.1016/j.jelechem.2014.02.001
500	Sangthong, S; Sangphech, N; Palaga, T; Ngamrojanavanich, N; Puthong, S; Vilaivan, T; Muangsins, N	Anthracene-9, 10-dione derivatives induced apoptosis in human cervical cancer cell line (CaSki) by interfering with HPV E6 expression	EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY	2014	77		334	342		10.1016/j.ejmech.2014.02.006
501	Arunrattiyakorn, P; Suwannasai, N; Aree, T; Kanokmedhakul, S; Ito, H; Kanzaki, H	Biotransformation of alpha-mangostin by Colletotrichum sp MT02 and Phomopsis euphorbiae K12	JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC	2014	102		174	179		10.1016/j.molcatb.2014.02.010
502	Wattanavanitchakorn, S; Prakitchaiwattana, C; Thamyongkit, P	Rapid and simple colorimetric method for the quantification of AI-2 produced from Salmonella Typhimurium	JOURNAL OF MICROBIOLOGICAL METHODS	2014	99		15	21		10.1016/j.mimet.2014.01.014
503	Kaewpi boon, C; Surapinit, S; Malilas, W; Moon, J; Phuwapraisirisan, P; Tip-Pyang, S; Johnston, RN; Koh, SS;	Feroniellin A- induced autophagy causes apoptosis in multidrug- resistant human A549 lung cancer cells	INTERNATIONAL JOURNAL OF ONCOLOGY	2014	44	4	1233	1242		10.3892/ijo.2014.2297
504	Meeprasert, A; Hannongbua, S; Rungrotmongkol, T	Key Binding and Susceptibility of NS3/4A Serine Protease Inhibitors against Hepatitis C Virus	JOURNAL OF CHEMICAL INFORMATION AND MODELING	2014	54	4	1208	1217		10.1021/ci400605a
505	Dalmas, O; Sompornpisut, P; Bezaniila, F; Perozo, E	Molecular mechanism of Mg2+-dependent gating in CorA	NATURE COMMUNICATIONS	2014	5				3590	10.1038/ncomms4590

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506	Singh, A; Kaur, S; Kaur, A; Aree, T; Kaur, N; Singh, N; Bakshi, MS	Aqueous-Phase Synthesis of Copper Nanoparticles Using Organic Nanoparticles: Application of Assembly in Detection of Cr3+	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2014	2	4	982	990		10.1021/sc400557w
507	Rattanasat, P; Dungchai, W; Cate, D; Volckens, J; Chailapakul, O; Henry, CS	Multilayer Paper-Based Device for Colorimetric and Electrochemical Quantification of Metals	ANALYTICAL CHEMISTRY	2014	86	7	3555	3562		10.1021/ac5000224
508	Chantarawaratit, P; Sangvanich, P; Banlunara, W; Soontornvipart, K; Thunyakitpisal, P	Acemannan sponges stimulate alveolar bone, cementum and periodontal ligament regeneration in a canine class II furcation defect	JOURNAL OF PERIODONTAL RESEARCH	2014	49	2	164	178		10.1111/jre.12090
509	Sichaem, J; Khumkratok, S; Siripong, P; Tip-pyang, S	New cytotoxic apotirucallanes from the leaves of Walsura trichostemon	JOURNAL OF NATURAL MEDICINES	2014	68	2	436	441		10.1007/s11418-013-0808-6
510	Amornkitbamrung, L; Pienpinijtham, P; Thammacharoen, C; Ekgasit, S	Palladium nanoparticles synthesized by reducing species generated during a successive acidic/alkaline treatment of sucrose	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR	2014	122		186	192		10.1016/j.saa.2013.10.095
511	Pray-in, Y; Rutnakornpituk, B; Wichai, U; Vilaivan, T; Rutnakornpituk, M	Hydrophilic azlactone-functionalized magnetite nanoparticle for conjugation with folic acid	JOURNAL OF NANOPARTICLE RESEARCH	2014	16	4			2357	10.1007/s11051-014-2357-7
512	Krajangsri, S; Muangsri, N; Pulpoka, B	Coordination polymers based on 1,3-alternate calix[4] arene tetrabenzoic acid: Design, synthesis and structure	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	2014	247					
513	Chokbunpiam, T; Chanajaree, R; Remsungnen, T; Saengsawang, O;	N-2 in ZIF-8: Sorbate induced structural changes and self-diffusion	MICROPOROUS AND MESOPOROUS MATERIALS	2014	187		1	6		10.1016/j.micromeso.2013.12.012
514	Navakhun, K; Sawangsri, R; Ruangpornvisuti, V	Syntheses of amide based anion receptors and investigation of their associations with anions and their molecular structures using proton NMR titration and DFT methods	JOURNAL OF MOLECULAR STRUCTURE	2014	1061		32	40		10.1016/j.molstruc.2013.12.060
515	Niyomploy, P; Srisomsap, C; Chokchaichamnankit, D; Vinayavekhin,	Superoxide dismutase isozyme detection using two-dimensional gel electrophoresis zymograms	JOURNAL OF PHARMACEUTICAL AND	2014	90		72	77		10.1016/j.jpba.2013.10.035
516	Pudhom, K; Teerawatananond, T; Chookpaiboon, S	Spirobisnaphthalenes from the Mangrove-Derived Fungus Rhytidhysterion sp AS21B	MARINE DRUGS	2014	12	3	1271	1280		10.3390/md12031271
517	Suvannasara, P; Siraletmukul, K; Muangsri, N	eElectrosprayed 4-carboxybenzenesulfonamide-chitosan microspheres for acetazolamide delivery	INTERNATIONAL JOURNAL OF BIOLOGICAL	2014	64		240	246		10.1016/j.ijbiomac.2013.12.012
518	Waluvanaruk, J; Aeungmairepirom, W; Tuntulani, T; Ngamukot, P	Preconcentration and Determination of Trace Silver Ion Using Benzothiazole Calix[4]arene Modified Silica by Flow Injection Flame Atomic Absorption Spectrometry	ANALYTICAL SCIENCES	2014	30	3	389	395		10.2116/analsci.30.389
519	Sichaem, J; Siripong, P; Tip-pyang, S; Phaopongthai, J	A New Cytotoxic Tirucallane from the Twigs of Walsura trichostemon	NATURAL PRODUCT COMMUNICATIONS	2014	9	3	367	368		
520	Nunthaboot, N; Lugsanangarm, K; Pianwanit, S; Kokpol, S; Tanaka, F; Taniguchi, S; Chosrowjan, H; Nakanishi, T; Kitamura, M	Bell-shaped dependence of the rate of ultrafast photoinduced electron transfer from aromatic amino acids to the excited flavin on the donor-acceptor distance in FMN binding proteins	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2014	1030		9	16		10.1016/j.comptc.2013.12.014
521	Ruecha, N; Rangkupan, R; Rodthongkum, N; Chailapakul, O	Novel paper-based cholesterol biosensor using graphene/polyvinylpyrrolidone/polyaniline nanocomposite	BIOSENSORS & BIOELECTRONICS	2014	52		13	19		10.1016/j.bios.2013.08.018
522	Tachaprutinun, A; Meinke, MC; Richter, H; Pan-in, P; Wanichwecharungruang, S; Knorr, F; Lademann, J; Patzelt, A	Comparison of the skin penetration of Garcinia mangostana extract in particulate and non-particulate form	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS	2014	86	2	307	313		10.1016/j.ejpb.2013.12.001
523	Ngampeungpis, W; Tumcharern, G; Pienpinijtham, P; Sukwattanasinitt, M	Colorimetric UV sensors with tunable sensitivity from diacetylenes	DYES AND PIGMENTS	2014	101		103	108		10.1016/j.dyepig.2013.09.033

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524	Li, QF; Wanderling, S; Sompornpisut, P; Perozo, E	Structural basis of lipid-driven conformational transitions in the KvAP voltage-sensing domain	NATURE STRUCTURAL & MOLECULAR BIOLOGY	2014	21	2	160	+		10.1038/nsmb.2747
525	Noipa, T; Ngamdee, K; Tuntulani, T; Ngeontae, W	Cysteamine CdS quantum dots decorated with Fe3+ as a fluorescence sensor for the detection of PPI	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR	2014	118		17	23		10.1016/j.saa.2013.08.067
526	Sam-ang, P; Raksasorn, D; Sukwattanasinitt, M; Rashatasakhon, P	A nitroaromatic fluorescence sensor from a novel tripyrenyl truxene	RSC ADVANCES	2014	4	101	58077	58082		10.1039/c4ra11407h
527	Nitinaivinij, K; Parnklang, T; Thammacharoen, C; Ekgasit, S; Wongravee, K	Colorimetric determination of hydrogen peroxide by morphological decomposition of silver nanoprisms coupled with chromaticity analysis	ANALYTICAL METHODS	2014	6	24	9816	9824		10.1039/c4ay02339k
528	Suvannasara, P; Praphairaksit, N;	Self-assembly of mucoadhesive nanofibers	RSC ADVANCES	2014	4	102	58664	58673		10.1039/c4ra09329a
529	Nueangaudom, A; Lugsanangarm, K; Pianwanit, S; Kokpol, S; Nunthaboot, N; Tanaka, F; Taniguchi, S; Chosrowjan, H	Theoretical analyses of the fluorescence lifetimes of the D-amino acid oxidase-benzoate complex dimer from porcine kidney: molecular dynamics simulation and photoinduced electron transfer	RSC ADVANCES	2014	4	96	54096	54108		10.1039/c4ra05211k
530	Nootchanat, S; Ninsonti, H; Baba, A; Ekgasit, S; Thammacharoen, C; Shinbo, K; Kato, K; Kaneko, F	Investigation of localized surface plasmon/grating-coupled surface plasmon enhanced photocurrent in TiO2 thin films	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2014	16	44	24484	24492		10.1039/c4cp03885a
531	Kaewtong, C; Niamsa, N; Pulpoka, B; Tuntulani, T	Reversible sensing of aqueous mercury using a rhodamine-appended polyterthiophene network on indium tin oxide substrates	RSC ADVANCES	2014	4	94	52235	52240		10.1039/c4ra11353e
532	Wannaprom, N; Vanalabhpata, P	Electro-Oxidation of Aldehydes in Alkaline Solution by Electropolymerized Nickel Salen-Based Film Modified Electrodes	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	2014	161	12	G86	G97		10.1149/2.0111412jes
533	Kaewtong, C; Uppa, Y; Srisa-ard, M; Pulpoka, B; Tuntulani, T	Inkpen-printed reusable colorimetric sensors for the detection of Hg(II)	RSC ADVANCES	2014	4	86	46145	46151		10.1039/c4ra07578a
534	Wichapong, K; Nueangaudom, A; Pianwanit, S; Tanaka, F; Kokpol, S	Molecular dynamics simulation, binding free energy calculation and molecular docking of human D-amino acid oxidase (DAAO) with its	MOLECULAR SIMULATION	2014	40	14	1167	1189		10.1080/08927022.2013.854892
535	Seawpakorn, S; Thamyongkit, P; Keawongsang, W; Rojanathanes, R	Picolinic diamide pincers for transition metal complexation and their electrochemical	SUPRAMOLECULAR CHEMISTRY	2014	26	10-Dec	843	849		10.1080/10610278.2014.883076
536	Nunthaboot, N; Tanaka, F; Kokpol, S	Comparison of the monomer structure of the FMN-binding protein from Desulfovibrio vulgaris obtained by NMR and molecular dynamics simulation approaches	MOLECULAR SIMULATION	2014	40	13	1026	1034		10.1080/08927022.2013.837905
537	Saithongdee, A; Varanusupakul, P; Imyim, A	Preparation of thermally sensitive poly[N-isopropylacrylamide-co-(maleic acid)] hydrogel membrane by electrospinning using a green	GREEN CHEMISTRY LETTERS AND REVIEWS	2014	7	3	220	227		10.1080/17518253.2014.923519
538	Nunthaboot, N; Tanaka, F; Kokpol, S; Visser, NV; van Amerongen, H; Visser,	Molecular dynamics simulation of energy migration between tryptophan residues in	RSC ADVANCES	2014	4	59	31443	31451		10.1039/c4ra03779k
539	Padungros, P; Wei, A	PRACTICAL SYNTHESIS OF AROMATIC DITHIOCARBAMATES	SYNTHETIC COMMUNICATIONS	2014	44	16	2336	2343		10.1080/00397911.2014.894527
540	Pan-In, P; Wanichwecharungruang, S; Hanes, J; Kim, AJ	Cellular trafficking and anticancer activity of Garcinia mangostana extract-encapsulated polymeric nanoparticles	INTERNATIONAL JOURNAL OF NANOMEDICINE	2014	9		3677	3686		10.2147/IJN.S66511
541	Gatamala, H; Thammacharoen, C; Ekgasit, S	3D AgCl microstructures selectively fabricated via Cl--induced precipitation from [Ag(NH3)(2)](+)	CRYSTENGCOMM	2014	16	29	6688	6696		10.1039/c4ce00639a

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542	Bhawawet, N; Fuangswasdi, S; lmyim, A	DETERMINATION OF MELAMINE BASED ON THE FORMATION OF AN INSOLUBLE COPPER-MELAMINE COMPLEX AND FLAME ATOMIC ABSORPTION SPECTROMETRY	ANALYTICAL LETTERS	2014	47	11	1931	1937		10.1080/00032719.2014.888728
543	Meeprasert, A; Rungrotmongkol, T; Li, MS; Hannongbua, S	In Silico Screening for Potent Inhibitors against the NS3/4A Protease of Hepatitis C Virus	CURRENT PHARMACEUTICAL DESIGN	2014	20	21	3465	3477		10.2174/13816128113199990632
544	Niyomploy, P; Boonsombat, R; Karnchanatat, A; Sangvanich, P	A SUPEROXIDE DISMUTASE PURIFIED FROM THE ROOTS FROM <i>Stemona tuberosa</i>	PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY	2014	44	7	663	679		10.1080/10826068.2013.868356
545	Stubinitzky, C; Vilaivan, T; Wagenknecht, HA	The base discriminating potential of pyrrolidinyl PNA demonstrated by magnetic FexOy particles	ORGANIC & BIOMOLECULAR CHEMISTRY	2014	12	22	3586	3589		10.1039/c4ob00487f
546	Boonsai, P; Phuwapraisirisan, P; Chanchao, C	Antibacterial Activity of a Cardanol from Thai <i>Apis mellifera</i> Propolis	INTERNATIONAL JOURNAL OF MEDICAL SCIENCES	2014	11	4	327	336		10.7150/ijms.7373
547	Vongnam, K; Vilaivan, T; Sukwattanasinitt, M; Rashatasakhon, P	New Water Soluble Terphenylene Diethynylene Fluorophores	JOURNAL OF FLUORESCENCE	2014	24	1	197	202		10.1007/s10895-013-1286-7
548	Kaewamatawong, T; Banlunara, W; Maneewattanapinyo, P; Thammachareon, C; Ekgasit, S	Acute and Subacute Pulmonary Toxicity Caused by a Single Intratracheal Instillation of Colloidal Silver Nanoparticles in Mice: Pathobiological Changes and Metallothionein Responses	JOURNAL OF ENVIRONMENTAL PATHOLOGY TOXICOLOGY AND ONCOLOGY	2014	33	1	59	68	10.1615/JEnvironPatholToxicolOncol.2014010	
549	Sangsuwan, R; Sangher, S; Aree, T; Mahidol, C; Ruchirawat, S; Kittakoop, P	An organocatalyst from renewable materials for the synthesis of coumarins and chromenes: three-component reaction and multigram scale	RSC ADVANCES	2014	4	26	13708	13718		10.1039/c4ra00673a
550	Promkatkaew, M; Suramitr, S; Karpkird, T; Wanichwecharungruang, S; Ehara, M; Hannongbua, S	Photophysical properties and photochemistry of substituted cinnamates and cinnamic acids for UVB blocking: effect of hydroxy, nitro, and fluoro substitutions at ortho, meta, and para positions	PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES	2014	13	3	583	594		10.1039/c3pp50319d
551	Sichaem, J; Jirasirichote, A; Sapasuntikul, K; Khumkratok, S;	New furoquinoline alkaloids from the leaves of <i>Evodia lepta</i>	FITOTERAPIA	2014	92		270	273		10.1016/j.fitote.2013.12.002
552	Boonlua, C; Ditmangklo, B; Reenabthue, N; Suparpprom, C; Poomsuk, N; Siri Wong, K; Vilaivan, T	Pyrene-labeled pyrrolidinyl peptide nucleic acid as a hybridization-responsive DNA probe: comparison between internal and terminal	RSC ADVANCES	2014	4	17	8817	8827		10.1039/c3ra47997h
553	Jeenpadiphat, S; Tungasmita, DN	Esterification of oleic acid and high acid content palm oil over an acid-activated bentonite catalyst	APPLIED CLAY SCIENCE	2014	87		272	277		10.1016/j.clay.2013.11.025
554	Nueangaudom, A; Lugsanangarm, K; Pianwanit, S; Kokpol, S; Nunthaboot, N; Tanaka, F	Non-equivalent conformations of D-amino acid oxidase dimer from porcine kidney between the two subunits. Molecular dynamics simulation and photoinduced electron transfer	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2014	16	5	1930	1944		10.1039/c3cp53826e
555	Reanprayoon, C; Gasiorowski, J; Sukwattanasinitt, M; Sariciftci, NS; Thamyongkit, P	Polydiacetylene-nested porphyrin as a potential light harvesting component in bulk heterojunction solar cells	RSC ADVANCES	2014	4	6	3045	3050		10.1039/c3ra45373a
556	Thavornsin, N; Sukwattanasinitt, M; Wacharasindhu, S	Direct synthesis of poly(p-phenyleneethynylene)s from calcium carbide	POLYMER CHEMISTRY	2014	5	1	48	52		10.1039/c3py01068f