

PERSONAL DETAILS**ASSOCIATE PROFESSOR ChM. DR. LEE SIEW LING**

Department of Chemistry

Faculty of Science

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✉ lsling@utm.my**ACADEMIC QUALIFICATION**

PhD. (Material Science), Universiti Putra Malaysia, 2004

BSc. (Chemistry), Universiti Putra Malaysia, 2000

PROFESSIONAL MEMBERSHIP

Institut Kimia Malaysia (IKM) – Associateship, Membership No: A/2739/5465/08

American Chemical Society (ACS), Membership No: 30186178

Persatuan Sains Analisis Malaysia (ANALIS), Membership No: L322

Malaysia Nanotechnology Association

Malaysia Zeolite Association (MyZA), Membership No: MyZA2022020

International Association of Computer Science and Information Technology (IACSIT) - Membership No: 80338569

Asian Analytical Chemistry Network (AACN)

EXPERTISE

Catalysis, Advanced Materials, Nanotechnology, Mesoporous Materials, Porous Materials, Adsorption, Materials Chemistry, Synthesis of Catalysts, Heterogeneous Catalysis

ADMINISTRATIVE EXPERIENCE

Penyelaras Jawatankuasa Kebolehpasaran FS, 2021-2023
Ahli Jawatankuasa Pengurusan CSNano, 2021, 2022
Pengurus Akademik (Penyelidikan dan Inovasi) Fakulti Sains (1 June 2016 – 31 May 2018)
Chairperson of Networking and linkages Division, CSNano, 2015 – 2017
Chairperson of Committee of OSHE, CSNano, 2015 – 2017

TEACHING EXPERIENCE**Undergraduate Course**

Chemical Kinetics and Electrochemistry

Chemical Thermodynamics
 Laboratory Occupational Safety and Health
 Chemical Reactions Process
 Corrosion Chemistry
 Research Methodology and Information Retrieval
 Laboratory of Physical Chemistry
 Laboratory of Physical Chemistry & Analysis I
 Laboratory of Analytical Chemistry I

Postgraduate Course

Research Methodology (USCP 0010 and MSCK 1303)

POSTGRADUATE SUPERVISION

PhD Student

Name	Thesis Title	Year
Nursyafreena bt Attan	Magnetic Field Effects on the Adsorption of Dyes, Heterogeneous Oxidation Catalysis and Synthesis of Well-Aligned Titania	2013
Surya Lubis, M. SI.	Porous Carbon-Coated Titania Prepared by In-Situ Polymerization of Styrene and Its Catalytic and Photocatalytic Activities in Oxidation of Alkenes	2013
Lai Sin Yuan	Fine-tuning the hydrophobicity and catalytic activity of organosilanization of titanium-Schiff base complex in oxidation of limonene by aqueous hydrogen peroxide	2014
Nur Hidayah bt Mohd Ran	Hollow carbon platinum and titanium oxide as floating catalysts in liquid-gas reaction	2014
Sam Mei Shie	Multifunctional Mesoporous Carbon Nitrite Materials as Adsorbent, Sensor and Catalyst to Remove N-nitrosopyrrolidine and Aniline	2014
Ooi Yee Khai	Investigation on Role of Silica Matrixes as Support in Titania-Based Photocatalyst	2015
Sahira Hassan Kareem	Synthesis of Polyethylene Glycol-Coated Manganese Zinc Ferrite And Polyvinyl Alcohol-Coated Manganese Zinc Ferrite Nanoparticles Via Co-Precipitation Method	2016
Shokoh Parham	Tailoring of Nanocrystalline Al ₂ O ₃ -TiO ₂ Bimetal Oxide Loaded on Textile as a Potential Antimicrobial Wound Dressing	2016
Koh Pei Wen	Comparative Study and Activity Enhancement of Transition Metal Oxides Doped Titania Photocatalysts for Dye Degradation	2016
Ali Taha Saleh	Synthesis and Characterization of Calcium Phosphate Cements and Its Application in Drug Delivery	2016
Parisa Pourdayhimi	Photodegradation of Anionic Surfactants using Nano Zn-Immobilized Hollow Silica Composite	2016
Fatemah Yaghoubidoust	Synthesis and Characterization of Reduced Graphene Oxide-Loaded Cotton as Phase-Boundary Catalyst In the Oxidation of Styrene By Aqueous Hydrogen Peroxide	2017
Mohamad Azani Bin Abd Khadir Jalani	Liquid Crystalline Properties of Gold(I) Pyrazolate Complex and Their Nanoparticles in Different Dimensional of Nanocomposites	2017

Faizal Bin Hussin	Design of zinc-oxide based composites for photocatalytic removal of phenol and hydrogen production from water	2017
Nurul Najidah Binti Mohamed	The Utilization of Averrhoa Bilimbi as Titania Support in Catalytic and Photocatalytic Reaction	2018
Mohd Hayrie Bin Mohd Hatta	Synthesis of crystalline mesoporous carbon nitrides for photocatalytic degradation of phenol	2019
Siti Maryam binti Jasman	Copper species modified carbon nitride for detection and conversion of nitrate and nitrite ions	2019
Chong Jia Cherng	Optical Characterisation Of Growth Dynamics For Colloidal Gold Nanoparticles In Citrate Environment	2019
Nur Fadzilah Binti Abd Razak	Synthesis, Sorption-Bioreduction And Catalytic Activity Of Gold On Thioctic Acid Functionalised Silica Coated Magnetite Nanoparticles	2019
Hayder Jawad Maktoof	Synthesis of Al/Ga co-doped ZnO nanostructures by laser ablation towards as gas sensor	2020
Nurul Husna binti Sabran	Phosphorescent bimetallic copper(II) pyrazolate complexes/titanium oxide composites for photocatalyst applications	Ongoing
Leong Cheng Yee	Multifunctional PDMS Coated- (Chitosan Modified Silver-Doped Titanium Dioxide Nanoparticles) Photocatalyst for Antibacterial and antifungal Activity	Ongoing
Alice Sim Hui Li	Transparent TiO ₂ coating on glass for self-cleaning and antibacterial applications	Ongoing
Shi Zhi Yi	Control Of Heavy Metal Content Of Panax Notoginseng Powder In Commercially Available Miao Medicine In Guiyang City	Ongoing

Master Student (By Research)

Name	Thesis Title	Year
Tan Yin Yin	Synthesis and Characterization of Transition Metal-Doped Silica Aerogels as Photocatalysts	2008
Nor Suriani bte Hj Sani	Enzyme Encapsulated Silica Matrix	2010
Nurul Hidayah bte Mohd Yunus	Nano-Enabled Drug Delivery System for Piperine	2010
Nur Rahimah binti Said	Synthesis, Characterization and Catalytic Activity of Polystyrene Anchored Palladium(II) Hydrazone Complexes in Heck Reaction	2011
Yong Shih Ween	Synthesis of Bismuth Titanate Materials via Modified Hot Injection Method	2012
Jamilah bt Mohd Ekhsan	Niobium-Phosphate Impregnated Silica-Titania as Oxidative-Acidic Bifunctional Catalyst in Synthesis of Diols	2013
Hartini bt Khairi Osman	Synthesis and Characterization of Bismuth Based Materials via Hot Injection Method	2013
Nurul Diyana binti Zainal	Synthesis and Characterization of Nitrogen Modified TiO ₂ for application in Textile Industry	2015
Shamsuddin Bin Chik Zi	A New Approach To Synthesize Mesoporous Titania By High intensity Ultraviolet Irradiation As Photocatalyst For Oxidation Of Styrene	2015
Ahmad Hanami Bin Abd Kadir	Photocatalytic Removal of Nitrosamines over Mesoporous Carbon Nitride catalyst	2015

Tan Win Hon	Synthesis and Characterization of Carbon Nanotubes from Hydrocarbon Rich Flames	2016
Salasiah binti Che Me	Synthesis and Characterization of Tungsten-Phosphoric acid Treated Silica-Titania as Acidic-Oxidative Bifunctional Catalyst	2017
Goh Cheow Kat	Multiresponsive Phosphorescent Metallogels using Azobenzene of Gold(I) Pyrazolate Complexes with Liquid Crystalline Properties	2019
Ling Chui Min	TUD-C Doped tungsten oxide catalysts for cyclohexane oxidation	2021
Chen Man Ching	ZnO-TiO ₂ photocatalyst as antibacterial additives in paint design	Ongoing
Chew Yi Bin	Cu-TiO ₂ photocatalyst as antibacterial agent in fabric	Ongoing

Master Student (By Mixed Mode)

Name	Dissertation Title	Year
Khaw Swee Por	Synthesis and Characterization of Vanadium oxides Doped Porous Titania Photocatalyst	2015

POSTGRADUATE EXAMINER

(PhD/Master Thesis/Dissertation)

Name	Thesis/Dissertation Title	Year
Wee Boon Hong	Fabrication and Characterization of Flexible Manganese Dioxide (MnO ₂) Thin-Film Electrochemical Capacitor (EC) Prototypes	2011
Siti Munirah Sidik	Nickel Supported On Mesoporous Silica Nanoparticles For Carbon Dioxide Reforming Of Methane	2012
Mohd Hydrie Bin Mohd Hatta	Synthesis of Carbon Modified Titanium Dioxide Photocatalysts for Removal of Phenol	2013
Hayman Saeed Salih	Effect of Cetyltrimethylammonium Bromide on the Properties of Nickel Oxide Nanoparticle	2014
Norfariha Binti Hassan	Synthesis and Characterization of Luminol Functionalized Siliceous Zeolite Nanoparticles as Chemosensor for Metal Ions	2014
Hwda Ghafur Gauf	Effect of Cationic Surfactants on Zinc Oxide Nanoparticles Properties Synthesized via Sol-gel Technique	2015
Kamelia Karimnezhad	Synthesis, Characterization and Catalytic Application of Lanthanum Modified MCM-41 in Henry Reaction	2016
Mohamad Faiz bin Othman	Synthesis of mesoporous sodalite by mixed quaternary ammonium cation templates for Knoevenagel condensation reaction	2016
Wong Sze Ting	Biosynthesized Mono- and Bimetallic Gold-Palladium Nanoparticles as Catalyst for Reduction and Oxidation Reactions	2017
Ong Kok Tong	Optimization and Catalytic Study of pyrazine-1,4-dium from α,β -conjugated Schiff Base	2017
Nor Shuhada Alim	Polymer modified carbon nitride composite as potential fluorescence sensors for detection of nitride and nitrate ions	2017

Nadzidah Yusof	Synthesis and Characterization of Cobalt Loaded Fibrous Silica KCC-1 for Catalytic Methanation of Carbon Monoxide	2018
Nur Izzati binti Abu Bakar	Well Aligned One-Dimensional-Like Titania Composite Synthesized Under Magnetic Field and Its Structure-Photocatalytic Activity Relationship	2018
Farah Syuhada Abdul Halim	Carbon-Containing Titania Coated Stainless Steel Prepared by High Voltage Powder Spray Coating and its Adhesion Phenomena	2018
Jagath Retchanan S/O Sivalingam	Ionic Liquid Mediated Synthesis of Fe/CeO ₂ -TiO ₂ Photocatalyst, Characterization and Visible Light Degradation of Diisopropanolamine	2018
Suhaila Binti Borhamdin	Magnetically Recoverable Biosynthesized Gold Nanoparticles as Catalysts for Oxidation of Benzyl Alcohol and Reduction of 4-Nitrophenol	2019
Rasidah binti Razali	Hydrophobic Titania-Polystyrene Textile Based Catalyst for Phase Boundary Catalysis System	2019
Nurulhuda Binti Raja Nordin	Biosynthesis of Copper(II) Oxide Nanoparticles Using <i>Murayya koniggi</i> Leaf Extract and its Catalytic Activity in the Reduction of Nitroaromatic Compounds	2019
Nur Adilah Binti Hussien	Effects of Carbon Content on the Photocatalytic Activity of Zinc Oxide Under Visible Light Irradiation	2019
Nabahan Bin Hamood Bin Ali Alkhanbashi	Natural Products Gum Arabic and Frankincense as Green Inhibitor for Mild Steel Corrosion in Acidic Medium	2019
Fathin Najihah Nor Mohd Hussein	Ternary Blend Alginate-Monmorillonite and nanocellulose from oil palm leaves support for lipase immobilization	2019
Roslina Binti Rusli	Synthesis and Application of Inclusion Complexes of Beta-cyclodextrin with Boron-Dipyrromethene Dye for Selective Detection of Bisphenol A by Fluorescence Competitive Displacement Assay Method	2019
Nur Afiqah Binti Badli	Synthesis, Physicochemical and Mechanism Studies over Transition Metal-Titania Nano Hetrostructure Photocatalysts for the Degradation of Paraquat Dichloride	2019
Nuridayah Binti Yusmaidi	Biodiesel Production from Refined Cooking Oil Using Alumina Supported Calcium/M* (M* = Lanthanum, Cerium and Praseodymium) Oxides Catalysts	2020
Syahira Binti Omar	Fuzzy Logic Graph Approach to Elucidate Structure-Photocatalytic Activity Relationship of Carbon-Doped Titanium Dioxide	2020
Yahaya Muhammad	Optimization of process parameters for the methyl ester production from palm oil via K ₂ O/Dolomite	2020
Norfazreen Binti Saffee	Biosynthesized Gold Nanoparticles Supported on Magnetic Chitosan Matrix as Catalyst for Reduction of 4-Nitrophenol	2020
Ismail Alhassan Auwal	Characterization and Catalytic Study of Silicoaluminophosphate Number 5 (Sapo-5) Microporous Solid in Friedel-Crafts Acylation of 2-Methyl Furan	2021
Nurul Hidayah Hussain	Fabrication of Polyethersulfone Electrospun Nanofibrous Incorporated with <i>Aspergillus Oryzae</i> Lipase for Esterification of Ethyl Valerate	2021

Nadirah binti Ismail	Isotherm, Kinetics and Thermodynamic Studies On The Adsorption Of Chlorpyrifos Using Pineapple (Ananas Comosus) Crown Leaves Powder	2021
Nurul Hidayah Hussin	Fabrication of Electrospun Magnetic Nanocellulose Polyethersulfone Incorporate with <i>Aspergillus Oryzae</i> Lipase for Ethyl Valerate Synthesis	2021
Mohamad Fakhrul Ridhwan	Synthesis, Characterization and Photoelectrocatalytic Hydrogen Study of BiVO ₄ /GQD/g-C ₃ N ₄ Photocatalyst	2021
Muhammad Hariz Asraf Bin Hassan	In Vitro Antibacterial Wound Healing Of In Situ Bio-Synthesised Silver Nanoparticles From Orthosiphon Aristatus Immobilised On Synthesized Zeolite	2021
Ashiru Abubakar Garba	Mechanochemical Synthesis and Characterization of Supported Titanium and Zinc Oxides Photocatalysts for Degradation of Paraquat Dichloride	2021
M Jasmin Fathi Bin Jasni	Fabrication and Characterization of Composite Nylon 6,6, Polysulfone and Polystyrene Elelctrospun Nanofibre membranes for Bisphenol A Removal in Drinking Water	2022
Falynee Faha Binti Abdul Wahab	Synthesis, Spectral Characterization, Molecular Modelling and Bioactivity Studies of Tetradentate Schiff Base Complexes	2022

RESEARCH PROJECT

Structural-Ionic Conductivity Relationship of Nanocrystalline Oxide Ion Conductor Synthesized by a Novel Hot Injection Method Project Leader	Fundamental Research Grant Scheme (FRGS) (78334)	138,900	2008
Structure-catalytic activity relationship of hydrolyzed alkylsilane functionalized with amino acid as heterogeneous micellar catalysis Researcher	Fundamental Research Grant Scheme (FRGS) (78399)	46,000	2009
Electric field-induced catalysis over electrically conducting surface Researcher	Fundamental Research Grant Scheme (FRGS) (78472)	32,000	2009
1D Columnar Assembly of Alternating Bimetallic Complexes in the Nanoscopic Channels Researcher	Institutional Research Grant, UTM (77548)	30,000	2010
Synthesis of Oxide Nanoparticles Photocatalysts Using a Mesoporous Carbon Nitride Templates Researcher	Institutional Research Grant, UTM (77549)	30,000	2010
Nanostructured Bimetallic Oxide Modified Silica as Oxidative-Acidic Bifunctional Catalysts for Alkene Epoxidation Project Leader	Research University Grant (7126.00H08)	150,000	2011
A New Approach in Control of the Catalytic Activity and Selectivity in Oxidation Reactions by Magnetic Field	Research University Grant	74,000	2011

Researcher	(2526.01H06)		
Novel Nanomaterials for the Separation and Removal of New Emerging Pollutant Synthesis, Characterization and Application of Mesoporous Carbon Nitride Materials Researcher	Research University Grant-Flagship (2426.00G07)	289,080	2011
Synthesis, Characterization and Application of Dendrimer-Based Nanostructured Materials for the Separation and Removal of New Emerging Pollutant Researcher	Research University Grant-Flagship (2426.00G04)	299,600	2011
Synthesis, characterization and application of amine Surface bonded nanoporous carbon spheres Researcher	Research University Grant-Flagship (2426.00G05)	300,600	2011
Recycled water: Public perceptions and profiles of the accepters Researcher	Research University Grant-Flagship (2426.00G06)	47,850	2011
Physical-Chemical Properties and Photocatalytic Behavior of TiO₂ Modified Metal Oxides Supported on Silica Project Leader	Research University Grant (2526.02H81)	65,000	2012
Smart Phosphorescent Nanosensor Composites for Temperature Sensor Applications Researcher	Research University Grant (2526.02H82)	60,000	2012
Hydrogen Production via Photocatalytic Water Splitting over Modified Zinc Sulfide Photocatalysts Researcher	Research University Grant (2526.02H95)	50,000	2012
Investigation on Role of Silica Matrixes as Support for TiO₂ Based Photocatalysts Project Leader	Research University Grant (2526.03H90)	120,000	2012
The Nanoparticles Metal-Carbon with Core/Shell Structure as Selective and Active Catalyst in the Oxidation of Alkenes Researcher	Research University Grant (2501.06H22)	60,000	2014
Structural –Acidity Relationship Study on Silica Supported Metal Oxide-Phosphate Bifunctional Catalyst for Conversion of Alkene to Diol in Single Step Reaction Project Leader	Research University Grant (2509.06H21)	45,100	2014
Recovery of Precious Metals Using a Selective THIO Based Magnetic Nanoparticle Absorbent Researcher	Research University Grant (2501.07H16)	39,173	2014
Polymeric Zinc Oxide as Potential Sensor and Photocatalyst for Removal of Pollutants in Water Researcher	Research University Grant (2509.06H66)	60,000	2014
Investigation on Role of Tungsten Oxide in Generating Oxidative-Acidic Properties of the Silica Supported Bifunctional Catalyst for Conversion of Alkene to Diol in a Single Step Reaction Project Leader	Fundamental Research Grant Scheme (R.J130000.7809.4F527)	111,000	July 2014

Synthesis of New Tungsten Oxide Modified Silica-Titania Bifunctional Oxidative-Acidic Catalyst for Single Step Conversion of Alkene to Diol Project Leader	GUP-Tier 2 (Q.J130000.2609.10J66)	20,000	October 2014
Bioinspired Approach in the Synthesis of Hierarchically Porous Catalyst Derived from Averrhoa Bilimbi for the Conversion of High Molecular Weight Cellulose Researcher	Fundamental Research Grant Scheme (R.J130000.7809.4F626)	113,000	1 December 2014
Remediation of palm oil mill effluent towards environmental sustainability Researcher	GUP-Flagship (Q.J130000.2409.03G09)	50,000	1 March 2015
Design of High Performance Nitrogen-Modified Titania Fabric with Enhanced Heat Absorbability Project Leader	GUP-Tier (Q.J130000.2526.10H54)	50,000	1 May 2015
Tungsten-Phosphate Modified Silica-Titania Oxidative-Acidic Bifunctional Catalyst for Conversion of Alkene to Diol in a Single Step Reaction Project Leader	GUP-Flagship (Q.J130000.2426.03G35)	50,000	15 Jan 2016
Synthesis of Non Metal Doped Titania Coated Fabric with Improved Heat Absorbability and Antibacterial Properties Project Leader	GUP-Tier 1 (Q.J130000.2526.12H77)	50,000	1 Feb 2016
Synthesis and application of carbon-metals based nanocatalyst from electronic waste in oxidation reactions Researcher	GUP-Tier 1 (Q.J130000.2509.12H79)	50,000	1 Feb 2016
Bioinspired Synthesis of Gold Nanoparticles Supported onto Highly Branched Metformin Functionalised Silica Researcher	Fundamental Research Grant Scheme (R.J130000.7826.4F779)	128,200	2 Nov 2015
Electromembrane extraction across a polymer inclusion membrane using bubbleless electrode Researcher	Flagship (Q.J130000.2426.03G30)	50,000	15 Jan 2016
Design of Metal Oxide Modified Mesoporous Technische Universiteit Delft-Crystalline Multi-functional Catalysts Project Leader	GUP-Tier 1 (Q.J130000.2526.13H52)	50,000	1 July 2016
Program Pemindahan Ilmu Berkaitan STEM di Peringkat Sekolah Rendah Project Leader	Networking Grant (S.J130000.7726.4X173)	4,000	1 June 2016
Structural-Acidity Relationship of Multi-functional Mesoporous Technische Universiteit Delft-Crystalline Supported Metal Oxide Catalysts Project Leader	GUP-Tier 1 (PDRU) (Q.J130000.21A2.03E10)	66,600	1 July 2016
Synthesis of CuO Modified TiO₂ Nanosheets Photocatalyst using Nitrogen Ligands Stabilizer for Photodegradation of Organic Pollutants Project Leader	GUP-Tier 1 (Q.J130000.2526.16H17)	40,000	1 July 2017
Synthesis of TiO₂ nanosheets with reactive exposed {001} facets using nitrogen ligands stabilizer via solvothermal method for photodegradation of phenol	GUP-Tier 1 (PDRU) (Q.J130000.21A2.03E61)	66,600	1 July 2017

Project Leader			
Electric Field Driven Microextraction Based on Solid State Polymer Inclusion Membrane Project Leader	GUP-Tier 1 (PDRU) (Q.J130000.21A2.03E94)	137,260	1 Jan 2018
Research collaboration in catalysts and advanced materials development Project Leader	Networking Grant (S.J130000.7626.4X322)	6,675	7 Oct 17
Adaptasi Penyelidikan Sains di Peringkat Sekolah Rendah Project Leader	Networking Grant (S.J130000.7326.4X285)	2,700	1 April 2017
Meningkatkan kesedaran & kepentingan Sains di Peringkat Sekolah Rendah Project Leader	Networking Grant (S.J130000.7326.4X286)	8,800	1 June 2016
Metal Doped Crystalline Carbon Nitride for Hydrogen Evolution via Photocatalytic Water Splitting Project leader	UTM Transdisciplinary Research Grant (Q.J130000.3554.07G57)	50,000	1 Dec 2018
Energy Recovery and Power Generation from Variable Refrigerant Volume Unit by Convergent-Shrouded Wind Turbine Project member	UTM Transdisciplinary Research Grant (Q.J130000.3551.06G08)	40,000	1 Dec 2018
Catalytic Transesterification For Biodiesel Production Utilizing Alkaline Earth Metal Oxides Based Catalysts From Non-Edible Oil Project Leader	GUP-Tier 1 (PDRU), (Q.J130000.21A2.04E70)	138,460	1 July 2019
Investigation on Nitrogen Ligands Surfactants Synthesized CuO Doped Titania Nanosheets Photocatalysts Project Leader	Fundamental Research Grant Scheme (R.J130000.7854.5F238)	102,000	1 September 2019
Multifunctional Polydimethylsiloxane Coated Chitosan/Silver/Titania Photocatalyst For Antibacterial And Antifungal Project Leader	UTM High Impact Research Grant (Q.J130000.2454.08G53)	150,000	1 Jan 2020
Quaternary Ammonium Incorporated Silver Doped Titania Nanoparticles for Antibacterial and Antifungal Activity Project Leader	UTM Collaborative Research Grant (Q.J130000.2454.08G68)	40,000	1 Nov 2019
Exploration of Titania-Based Catalysts for Environmental Conservation Program Leader	UTM Collaborative Research Grant (Q.J130000.2454.08G69)	100,000	1 Nov 2019
Solid Acid Titania for Glycerol Acetylation to Acetins Project member	Collaborative Research Grant (R.J130000.7354.4B475)	20,000	1 Nov 2019
Nano-Catalyst Coated Fabric for Anti-COVID-19 Project Leader	Business Entity S.J130000.3054.4Y238	36,000	24 Mac 2020
Investigation of Transition Metal Oxides Doped Calcium Oxide Catalyst in Transesterification for Biodiesel Production Project Leader	Professional Development Research University (Q.J130000.21A2.05E37)	69,230	1 July 2021

PUBLICATION

(Journal Article, Book Chapter, Edited Book and Others)

Indexed Journal

Arunprabakaran Subramanian, Mona Azimi, Cheng Yee Leong, Siew Ling Lee, Clara Santato, Fabio Ciccoira. Solution-processed titanium dioxide ion-gated transistors (IGTs) and pH sensors using ionic liquid and aqueous saline solution (2022), <i>Frontiers in Electronics</i> . 3: 813535.
Mohamad Rasid Shera Farisya, Ramli Irmawati, Ishak Nor Shafizah, Yun Hin Taufiq-Yap, Ernee Noryana Muhamad, Siew Ling Lee, Nurulhidayah Salamun. Assessment on the effect of sulfuric acid concentration on physicochemical properties of sulfated-titania catalyst and glycerol acetylation performance (2021), <i>Catalysts</i> . 11: 1542.
Cheng Yee Leong, Hao Lin Teh, Man Ching Chen, Siew Ling Lee. Effect of Synthesis Methods on Properties of Copper Oxide Doped Titanium Dioxide Photocatalyst in Dye Photodegradation of Rhodamine B. <i>Science and Technology Indonesia</i> . 7(1), 91-97.
Man Ching Chen, Pei Wen Koh, Vinoth Kumar Ponnusamy, Siew Ling Lee. Titanium Dioxide and Other Nanomaterials Based Antimicrobial Additives in Functional Paints and Coatings: Review (2022), <i>Process in Organic Coating</i> . 163: 106660
Chui Min Ling, Chin Chai Teng, Mohd Hayrie Mohd Hatta, Siew Ling Lee. Tungsten Oxide Doped Titania Supported On TUD-C for Photocatalytic Removal of Methylene Blue (2021), <i>A Journal of Science and Technology</i> . 4(2): 42-52.
Elyne Chng, Nurul Tasnim Sahrin, Rab Nawaz, Chong Fai Kait, Siew Ling Lee. Glycerol-Assisted Sol-Gel Synthesis of Nitrogen-Doped Titanium Dioxide for Visible Light-Driven Photodegradation of Indoor Gaseous Formaldehyde (2021), <i>A Journal of Science and Technology</i> . 2: 17-31.
Nur Fatin Sulaiman, Nurul Izzaty Ramly, Mohamad Helmi Abd Mubin and Siew Ling Lee. 2021. Transition metal oxides (NiO, CuO, ZnO) doped calcium oxide catalysts derived from eggshell for transesterification of refined waste cooking oil (2021), <i>RSC Advances</i> . 11: 21781.
Mohamad Azani Abd Khadir Jalani*, Hendrik O. Lintang, Siew Ling Lee, Juan Matmin, Nur Fatiha Ghazalli, Leny Yulianti, Amy Zuria Abdul Ajid, Mohd Izam Idrus, Temperature-Dependent X-Ray Studies of Discotic Hexagonal Columnar Mesophases in Trinuclear Gold(I) Pyrazolate Complex (2021), <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 17(3): 285–294,
Cheng Yee Leong, Ye Shen Lo, Pei Wen Koh, Siew Ling Lee. Synthesis of Titanium Dioxide Nanotubes with Different N-Containing Ligands via Hydrothermal Method (2021), <i>Science and Technology Indonesia</i> . 6(2): 67-73.
Nurul Tasnim Sahrin, Rab Nawaz, Fai Kait Chong, Siew Ling Lee, Mohd Dzul Hakim Wirzal. Current perspectives of anodized TiO ₂ nanotubes towards photodegradation of formaldehyde: A short review (2021), <i>Environmental Technology & Innovation</i> . 22: 101418.
Yulianti, L., Hatta, M.H.M., Lee, S.L., Lintang, H.O. Optimized synthesis temperature and time to obtain crystalline carbon nitride with enhanced photocatalytic activity for phenol degradation (2020), <i>Indonesian Journal of Chemistry</i> , 20(6): 1392–1406.
Cheng Yee Leong, Pei Wen Koh, Ye Sheng Lo and Siew Ling Lee. Hydrothermal synthesis of titanium dioxide nanotube with methylamine for photodegradation of Congo red (2020), <i>IOP Conf. Series: Materials Science and Engineering</i> . 833: 012075.
Pei Wen Koh, Cheng Yee Leong, Leny Yulianti, Hadi Nur, Siew Ling Lee. Role of Vanadia and Titania Phases in the Removal of Methylene Blue by Adsorption and Photocatalytic Degradation (2020), <i>Malaysian Journal of Analytical Sciences</i> . 24(6): 1045 – 1060.
Nur Fatin Sulaiman, Abdul Rahim Yacob, Siew Ling Lee. Transesterification Reaction from Rice Bran Oil to Biodiesel over Heterogeneous Base Calcium Oxide Nanoparticles Catalyst (2020), <i>Science and Technology Indonesia</i> . 5(3): 62-69.
Chui Min Ling, Leny Yulianti, Hendrik Oktendy Lintang, Siew Ling Lee. TUD-C Supported Tungsten Oxide Doped Titania Catalysts for Cyclohexane Oxidation (2020), <i>Malaysian Journal of Chemistry</i> . 22(2): 29-36.
Yulianti, L., Hatta, M.H.M., Lee, S.L., Lintang, H.O. Crystalline carbon nitride for photocatalytic phenol degradation: Effect of precursor and salt melt amounts (2020), <i>AIP Conference Proceedings</i> . 2237: 020049
Yee Khai Ooi, Mohd Hayrie Mohd Hatta, Siew Ling Lee. Properties and Photocatalytic Behaviour of Vanadia Loaded Titania Supported on MCM-41 Synthesized using Different Surfactants for Degradation of Methylene Blue (2020), <i>Journal of Indonesian Chemical Society</i> . 3(1): 28.

Nur Fatin Sulaiman, Siew Ling Lee, Susilawati Toemen, Wan Azelee Wan Abu Bakar. Physicochemical characteristics of Cu/Zn/ γ -Al ₂ O ₃ catalyst and its mechanistic study in transesterification for biodiesel production. <i>Renewable Energy</i> . 156: 142-157.
Nurul Tasnim Sahrin, Rab Nawaz, Chong Fai Kait, Siew Ling Lee and Mohd Dzul Hakim Wirzal. Visible Light Photodegradation of Formaldehyde over TiO ₂ Nanotubes Synthesized via Electrochemical Anodization of Titanium Foil (2020), <i>Nanomaterials</i> , 10: 128-145;
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Other Publications

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Pei-Sin Keng, Siew-Ling Lee, Sie-Tiong Ha, Yung-Tse Hung, and Siew-Teng Ong. 2013. Cheap Materials to Clean Heavy Metal Polluted Waters. Chapter 8 in the book Green Materials for Energy, Products and Depollution . volume 3. Pp: 335-414. Publisher: Springer. ISSN 2213-7114, ISSN 2213-7122 (electronic), ISBN 978-94-007-6835-2, ISBN 978-94-007-6836-9 (eBook), DOI 10.1007/978-94-007-6836-9
Siew Ling Lee and Pei Wen Koh. 2014. Modification of TiO ₂ with metal oxide dopants. Chapter 2 in the book Photocatalysis by TiO ₂ : How to Enhance Photocatalytic Activity? (Editor: Dr Leny Yulianti). Publisher: Penerbit Universiti Teknologi Malaysia. ISBN 978-983-52-0969-7.
Siew Ling Lee and Jamilah Mohd Ekhsan. 2014. Advanced material: Oxidative-acidic bifunctional catalyst. Chapter 4 in the book Recent Development of Nanostructured Heterogeneous Catalyst for Oxidation Reaction (Editor: Siew Ling Lee). Publisher: Penerbit Universiti Teknologi Malaysia . ISBN: 978-983-52-0982-6

Siew Ling Lee, Jamilah Mohd Ekhsan and Yee Khai Ooi. 2014. Particuology of metal oxides in bifunctional catalyst design. Chapter 4 in the book Particuology of Some Metal Oxides Catalysts (Editor: Hadi Nur). Publisher: Penerbit Universiti Teknologi Malaysia. ISBN: 978-983-52-0967-3.
Siew Ling Lee and Hartini Khairi Osman. 2014. Functional Mesoporous Metal Oxide Materials. Chapter 4 in the book Chemistry of Functional Mesoporous Materials: Design and Applications (Editor: Hendrik O. Lintang). Publisher: Penerbit Universiti Teknologi Malaysia. ISBN: 978-983-52-0970-3.

JOURNAL EDITOR / EDITORIAL BOARD /ADVISORY PANEL

Section Editor of the ASM Science Journal (September 2021 – September 2022)
Review Editor on the Editorial Board of Catalytic Reactions and Chemistry (specialty section of Frontiers in Chemistry) – Dec 2021
External Advisor and External Examiner for Foundation in Science (FIS) Programme for Asia Metropolitan University. Date: 23/12/2020
Editorial Board in Editorial Team of Science and Technology Indonesia Date: Jan 2020 – Dec 2024
External Examiner of Bachelor of Science (Hons) in Pharmaceutical Chemistry Programme, International Medical University, Feb 2020 – Jan 2023
Editorial Board Member for Malaysian Journal of Fundamental and Applied Sciences Date: 1 Jan 2017 – 30 Dec 2019
Scientific and Technical Committee & Editorial Review Board on Chemical and Molecular Engineering for World Academy of Science, Engineering and Technology, 2015.
Editorial Board Jurnal Teknologi – Special Edition (Technology, Education and Science of International Conference, TESIC 2013) Date: 21.1.2014
Guest Editor for ICOWABAS –RAFSS 2013
Editor for Book Chapter “Recent Development of Nanostructured Heterogeneous Catalyst”, UTM Press. 2014. ISBN: 978-983-52-0982-6
Editor of ‘Malaysian Journal of Fundamental and Applied Sciences’, 2013.
Editor of ‘Journal of Fundamental Sciences’ for 2009 and 2010, 2011 and 2012

AWARDS AND RECOGNITION

(Name of Award, Institution, Year/Academic Session)

Anugerah Perkhidmatan Cemerlang, Fakulti Sains, UTM, 2020
Anugerah Perkhidmatan Cemerlang, Fakulti Sains, UTM, 2019
Anugerah Perkhidmatan Cemerlang, Fakulti Sains, UTM, 2018
Anugerah Penyelidikan dan Perundingan, Fakulti Sains, UTM, 2018
Anugerah Perkhidmatan Cemerlang, Fakulti Sains, UTM, 2017
Anugerah Kualiti Akademik, Fakulti Sains, UTM, 2017
Anugerah Kualiti, Inovasi dan Jaringan Industri, Fakulti Sains, UTM, 2017
Gold award, 19 th Industrial Art and Technology Exhibition (INATEX) 2017, UTM, 2017 - Flame-Induced Synthesis of Carbon Nanomaterials
Silver award, Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (Pecipta) 2017, Terengganu, 2017

- Excellent Visible light driven Titania based photocatalysts for Organic Pollutants Removal
Award of Excellent Service (Anugerah Perkhidmatan Cemerlang), Citra Karisma UTM, 2017
Bronze award, 18 th Industrial Art and Technology Exhibition (INATEX) 2016, UTM, 2016
- Novel Oxidative Catalyst of TUD-C Supported Molybdenum Doped Titania
UTMShine Award, 23 November 2015
Bronze award, Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (Pecipta) 2015, KLCC, 2015
- Novel Mesoporous TUD-1 Supported Chromium Oxide Doped Titania Photocatalyst
17 th Industrial Art and Technology Exhibition (INATEX) 2015, UTM, 2015
- New Photocatalyst of Homogeneous Nitrogen Doped Titania Nanomaterials – Bronze award
16 th Industrial Art and Technology Exhibition (INATEX) 2014, UTM, 30 September - 2 October 2014
- New Cr Doped TiO ₂ Supported on TUD-1 Photocatalyst – Bronze award
- A Gas Burner for Synthesizing Carbon Nanotubes – Silver award
Malaysia Technology Expo 2014 (MTE 2014) , PWTC, KL, 20-22 February 2014
- Carbon nanotubes production using rich flame – Gold medal
Citation Award, Institut Kimia Malaysia, 6 December 2013
Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (Pecipta) 2013, KLCC, 7-9 November 2013
- Excellent chromium-doped titania photocatalyst synthesized via simple method – Silver award
- Nanostructured niobium-phosphate modified silica-titania bifunctional catalyst – Bronze award
Bronze award, 15 th Industrial Art and Technology Exhibition (INATEX) 2013, UTM, 2-4 October 2013
- Novel Nanocrystalline Bismuth Titanate Photocatalyst
Best Oral Presentation Award – International Conference on Nanomaterials and Electronics Engineering 2013, Melaka, 5-6 November 2013
Award of Excellent Service (Anugerah Perkhidmatan Cemerlang), Faculty of Science, UTM, 2012
14 th Industrial Art and Technology Exhibition (INATEX) 2012, UTM, 2012
- A simpler synthesis approach of visible light-driven chromium-doped titania photocatalyst – Bronze award
- Nanostructured niobium-phosphate modified silica-titania bifunctional catalyst –Bronze award
Award of Excellent Service (Anugerah Perkhidmatan Cemerlang), Citra Karisma UTM, 2012
Best Poster Award – International Conference on Nanotechnology (ICONTECH 2012), Universiti Malaysia Pahang, 30 May -1 June 2012
Best Poster Award – Regional Annual Fundamental Science Symposium 2011 (RAFSS 2011), Johor Bahru, 20-21 December 2011.
Silver award, 13 th Industrial Art and Technology Exhibition (INATEX) 2011, UTM, 2011
- Nanocrystalline Bismuth-Based Materials Synthesized via Hot Injection Method
JAIST 2010 Award (Japan Advanced Institute of Science and Technology), Invited Speaker at 7th International Symposium on Advanced Materials in Asia Pacific (7th ISAMAP) and JAIST International Symposium on Nanotechnology 2010 (NT 2010)
Award of Excellent Service (Anugerah Perkhidmatan Cemerlang), Faculty of Science, UTM, 2010
Award of Excellent Service (Anugerah Perkhidmatan Cemerlang), Faculty of Science, UTM, 2009

CONSULTATION

Consultant – “Mengenalpasti haba muatan susu tepung dan susu pekat”, Outspan Malaysia Sdn Bhd, vot 1205, Uni-Technologies Shd Bhd
Consultant – “Utilization of local sand in concrete manufacturing”, Jasa Raya Enterprise Sdn Bhd, vot 828, Uni-Technologies Shd Bhd
Consultant – “Quality Determination of Local Sand for Industrial Use”, GQ Marineworks Sdn Bhd, vot 925, Uni-Technologies Shd Bhd
Consultant – “Science Camp” (RM 1000), Globalee Sdn Bhd, vot 1108, Uni-Technologies Shd Bhd

Consultant – “Determination of Active Ingredients in Pesticide”, Ross Trading Company, vot 1060, Uni-Technologies Sdn Bhd
Consultant – “Science Talk and Laboratory Visit” vot 1268, Uni-Technologies Sdn Bhd
Consultant – “BON Analytical Works”, vot 1309, Uni-Technologies Sdn Bhd

COMMUNITY SOCIAL RESPONSIBILITY

(Contribution/Program, Year, Level – University/State/National/International)

Meningkatkan Kemahiran Penyediaan Video dan Pembentangan untuk Eksperimen Sains di Peringkat Sekolah Menengah, 2021, Program Head
Meningkatkan kesedaran & kepentingan Sains di Peringkat Sekolah Rendah, 2017, Program Head
Adaptasi Penyelidikan Sains di Peringkat Sekolah Rendah, 2016, Program Head
Program Pemindahan Ilmu Berkaitan STEM di Peringkat Sekolah Rendah, 2016, Program Head
Karnival Kimia, 2012, State level, committee member
Karnival Kimia, 2011, State level, committee member
Youth Science Camp, 2008, national level, committee member
Youth Science Camp, 2006, national level, committee member