

**DR YONG SOON KONG****Scopus citation metrics:****Total citation: 97****H-index: 6****ResearcherID: E-9900-2011****ORCID: <https://orcid.org/0000-0001-9752-9127>****Researchgate profile:****[https://www.researchgate.net/profile/Soon\\_Kong\\_Yong](https://www.researchgate.net/profile/Soon_Kong_Yong)****Google Scholar profile:****<https://scholar.google.com.au/citations?user=NRXqFDkAAAJ&hl=en>****ADDRESS (OFFICE)**B431, Faculty of Applied Sciences, Universiti Teknologi MARA (UiTM), 40450  
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Dr Yong Soon Kong is currently holds the position of a Senior Lecturer at the Faculty of Applied Science. His research interests are inorganic synthesis and environmental remediation with value-added agricultural waste materials. Modified agriculture wastes were used in the sorption/immobilization of toxic metal ions from contaminated soil/water. The waste modification process includes introduction of metal-binding ligands such as imines, dithiocarbamate, thiourea, etc.. Dr Yong has studied metal sorption of sulfur-modified chitosan beads from aqueous systems. He has also collaborated in utilizing waste materials from mushroom for remediation of metal-contaminated wastewater. His research interests are environmental remediation with value-added agricultural waste materials. Modified agriculture wastes were used in the sorption/immobilization of toxic metal ions from contaminated soil/water. The waste modification process includes introduction of metal-binding ligands such as imines, dithiocarbamate, thiourea, etc.. Dr Yong studies the sorption performance of sulfur-modified chitosan beads on Cd, Cu, Pb and Zn ions from aqueous systems.

**EDUCATION**

Academic Qualification	Awarding Institution	Thesis Title	Year
PhD in Environment Remediation	University of South Australia, Adelaide, Australia	Wastewater remediation with modified chitin derivatives	2013
M. Sc. in Chemistry	Universiti Kebangsaan Malaysia, Bangi, Malaysia	Synthesis and characterization of dithiocarbamate compounds derived from amino acid and reaction with nitrogen containing donor ligand	2004
B. Sc. (Hons) in Chemistry	Universiti Kebangsaan Malaysia, Bangi, Malaysia	Synthesis and characterization of zinc, copper and nickel dithiocarbamate complexes derived from ethylbutylamine and reaction with 1,10-phenanthroline and 2,2-bipyridyl donor ligand	2001

**ADMINISTRATIVE WORK**

No.	Name of Position	Institution	Duration
1.	Head of Soil Assessment and Remediation Research Group	Universiti Teknologi MARA, Malaysia	2017-present
2.	Publication Coordinator	Universiti Teknologi MARA, Malaysia	2017-present
3.	Chairperson for Website Committee	Institute of Materials, Malaysia	2016-present
4.	IT Manager	Faculty of Applied Sciences, Universiti Teknologi MARA, Malaysia	2014-2017

**AWARDS**

No.	Name of Award	Awarding Institution	Year
5.	Service Excellence	UiTM	2016
6.	Best Student Presenter	Centre for Environment Risk Assessment and Remediation, UniSA	2011
7.	UniSA President's Scholarship	University of South Australia (UniSA)	2010
8.	Staff Scholarship	UiTM	2010
9.	INTEC Excellent Researcher	UiTM	2008
10.	Bronze medal	Malaysian Technology Expo, PWTC, Kuala Lumpur	2009
11.	Silver medal	Invention, Innovation & Design Expo, UiTM, Shah Alam	2009
12.	Kurnia Satriajaya	Universiti Kebangsaan Malaysia	2002
13.	Tauliah Askar Wataniah	Ministry of Defence, Malaysia	2002

**TEACHING EXPERIENCE**

No.	Name of Position	Department	Job Scope	Duration
1.	Instructor/Resource person for the subject Soil Science and Analysis (EVT553)	Programme of Environment Technology at Faculty of Applied Sciences, UiTM	Developed syllabus and overall course structure, and administered all grades	2016-present
2.	Instructor/Resource person for the subject Environment Chemistry (EVT520)	Programme of Environment Technology at Faculty of Applied Sciences, UiTM	Developed syllabus and overall course structure, and administered all grades	2013-2016
3.	Coordinator for the Final Project (FSG661/611)	Programme of Environment Technology at Faculty of Applied Sciences, UiTM	Coordinate overall course structure, and administered all grades	2015-present
4.	Laboratory instructor for the subject Soil Science and Analysis (EVT553)	Programme of Environment Technology at Faculty of Applied Sciences, UiTM	Coordinate overall course structure, and administered all grades	2013
5.	Instructor for the subject Inorganic Chemistry I (CHM475)	Programme of Applied Chemistry at Faculty of Applied Sciences, UiTM	Coordinate overall course structure, and administered all grades	2013-2016

6.	Instructor for the subject General Chemistry (CHM420)	Programme of Applied Chemistry at Faculty of Applied Sciences, UiTM	Coordinate overall course structure, and administered all grades	2013-2016
7.	Contract Lecturer for Chemistry Subject (South Australian Matriculation, A-Level and American Degree Transfer Program)	International Education Centre, UiTM	Developed syllabus and overall course structure, and administered all grades	2004-2010
8.	Laboratory Demonstrator - STKK 1032 (General Chemistry Practical)	Faculty of Science and Technology, Universiti Kebangsaan Malaysia	Demonstrate weekly laboratory practicum and administered all grades	2003-2004

**POSTGRADUATE SUPERVISION**

No.	Name of Student	Degree	Title of Research	Duration
1.	Noor Mohamad Amin Salleh	M. Sc. (Environment Technology)	Remediation of acid sulfate soil using biogenic liming agent from co-combustion of oil palm biomass and blood cockle shell	2015-Deceased
2.	Nurul Syaidah Dzolin	M. Sc. (Applied Chemistry)	Synthesis of Schiff base derivatives as corrosion inhibitors	2015-2018
3.	Siti Fatimah Halim	M. Sc. (Environment Technology) (Coursework)	Application of biochar to reduce ammonia content in sewage treatment plant	2014-2015
4.	Nur Izzati Zakaria	M. Sc. (Environment Technology) (Coursework)	Heavy metals in chicken waste fertilizer and their uptake by plant	2014-2015
5.	Nor Aishah Ab Malek	M. Sc. (Applied Chemistry)	Pyrolyzed composites for immobilization of heavy metals in shooting range soil	2017-2019
6.	Nur Lieyana Abu Hassan Asha'ari	M. Sc. (Applied Chemistry)	Bone char for immobilization of heavy metals in shooting range soil	2017-2019
7.	Nor Fateha Azuan	M. Sc. (Applied Chemistry)	Snail mucus for coagulation of dye wastewater	2017-2019
8.	Nurul Fariha Mohd Idrus	M. Sc. (Environment Technology)	Magnesium biochar for precipitation of struvite from wastewater	2017-2019

**INTERNATIONAL INTERNSHIP SUPERVISION**

No.	Name of Student	University of Origin	Title of Research	Duration
1.	Leonie Feiertag	University of Kassel, Germany	Removal of lead from aqueous system using cassava stem biochar	Aug-Oct 2016
2.	Alice Daniel	Otto-von-Guericke-Universität Magdeburg, Germany	Sorption of nickel from water using lawn grass	Aug-Oct 2016

**RESEARCH EXPERIENCE**

No.	Project Title	Source of Funding	Project Role	Duration
1.	Chemically modified activated carbon with struvite and its effects on Pb immobilization in soil	Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia	Member	2017-2019

2.	Stabilization mechanism of Pb in shooting range soil using pyrolyzed composites of blood cockle shell and oil palm shell	Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia	Principal investigator	2016-2018
3.	Feasibility of using Turnitin for managing and grading at the Faculty of Applied Sciences (FSG), Universiti Teknologi MARA	ARAS grant, UiTM, Malaysia	Principal investigator	2016-2018
4.	Synthesis and characterization of cassava stalk biochar (CSB) and batch sorption/desorption for malachite green from aquaculture wastewater	LESTARI grant, UiTM, Malaysia	Member	2016-2018
5.	Remediation of acid sulfate soil using biogenic liming agent from co-combustion of oil palm biomass and blood cockle shell	Research Acculturation Collaborative Effort (RACE), UPM, Malaysia	Principal investigator	2015-2017
6.	Corrosion behaviour of mild steel electrodeposited with heterocyclic imine	Research Acculturation Grant Scheme (RAGS), UiTM, Malaysia	Member	2014-2016
7.	Synthesis and characterization of novel Schiff base polymers from cystamine for corrosion inhibition study	Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia	Member	2009-2011
8.	Synthesis and characterization of Schiff Base derived from cinnamaldehyde for corrosion Inhibition studies	RMI Excellence Fund, UiTM, Malaysia	Principal investigator	2009-2010
9.	Biosorption of Cu(II), Pb(II) and Ni(II) using sawdust colonised by <i>Pleurotus ostreatus</i> fungal mycelium from mushroom farming waste	science project, Ministry of Science & Technology, Malaysia	Member	2008-2010
10.	Synthesis and Characterization of Schiff Base Compounds Derived from Cinnamaldehyde and Amino Acids for Corrosion Inhibition Analysis	Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia	Member	2008-2010
11.	Growth kinetics of <i>Pleurotus ostreatus</i> fungal biomass biosorption characteristics of heavy metals in aqueous solutions	Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia	Member	2007-2009
12.	Cognitive styles of South Australian Matriculation programme students and the relationship of academic performance in chemistry	Unfunded project	Principal investigator	2007-2009
13.	Application of cyclic and acyclic Schiff bases as corrosion inhibitor	Bereau of Research & Commercialization, UiTM, Malaysia	Member	2006-2007

**CONSULTATION WORK**

Work	Name of Company	Role	Duration
Editorial board member of Scientific Research Journal	Universiti Teknologi MARA	Editor	2018-present
Manuscript reviewing in Separation Science & Technology	Elsevier	Reviewer	2017
Manuscript reviewing in Environmental Technology and Innovation	Elsevier	Reviewer	2017

Manuscript reviewing in Research on Chemical Intermediates	Springer	Reviewer	2017
Manuscript reviewing in Journal of Oil Palm Research	Malaysian Palm Oil Board	Reviewer	2017
Technical Working Committee of the Water treatment group for Global Innovation Imperative Forum	American Chemical Society	Forum panel	2017
Technical Working Group Committee Member for Faculty of Applied Sciences' Final Year Project Postmortem Review	Faculty of Applied Sciences, UiTM	Reviewer	2017
Manuscript reviewing for Conference of Social and Scientific Research	Institute of Research Management & Innovation, UiTM	Reviewer	2016-2017
Manuscript reviewing in Pertanika Journal of Science and Technology	UPM Press	Reviewer	2016-2017
Curriculum development and objective review	University Teknologi PETRONAS	Reviewer	2016
Evaluation of LESTARI grant application	Research Management Centre, UiTM Shah Alam	Evaluator	2016-present
Manuscript reviewing in Bioresource Technology	Elsevier	Reviewer	2016-present
Manuscript reviewing in Environmental Technology	Taylor & Francis	Reviewer	2015-present
Manuscript reviewing in Current Green Chemistry	Bentham Science Publisher	Reviewer	2014-present
Manuscript reviewing in Malaysian Journal of Analytical Sciences	Malaysian Society of Analytical Sciences	Reviewer	2014-present
Information technology and computers	Faculty of Applied Sciences, UiTM Shah Alam	Manager	2015-present
Postgraduate research proposal & thesis examination	Institute of Postgraduate Studies, UiTM Shah Alam	Examiner	2014-present
Conversion of Pleurotus waste into activated carbon	C & C Mushroom Cultivation Farm Sdn. Bhd	Research member	2014-2016

**PUBLIC LECTURE/COLLOQUIUM**

<b>Title of Lecture</b>	<b>Event Organizer</b>	<b>Role</b>	<b>Duration</b>
Plagiarism in academic writing and prevention with Turnitin	Environmental Technology Program, Faculty of Applied Sciences, UiTM Shah Alam	Invited speaker	24 Mac 2017
Plagiarism in academic writing and prevention with Turnitin	Physics and Industrial Physics Program, Faculty of Applied Sciences, UiTM Shah Alam	Invited speaker	18 Nov 2016, and 19 May 2017

**PUBLICATIONS****JOURNALS**

1. Tay, C. C., Liew, H. H., Redzwan, G., Yong, S. K., Surif, S., & Abdul-Talib, S. (2011). Pleurotus ostreatus spent mushroom compost as green biosorbent for nickel (II) biosorption, *Water Science & Technology*, 64(12), 2425-2432.
2. Tay, C. C., Liew, H. H., Yin, C.-Y., Abdul-Talib, S., Surif, S., Suhaimi, A., & Yong, S. K. (2011). Biosorption of cadmium ions using & Pleurotus ostreatus: Growth kinetics, isotherm study and biosorption mechanism. *Korean Journal of Chemical Engineering*, 28(3), 825-830.
3. Tay, C. C., Liew, H. H., Yong, S. K., Surif, S., Redzwan, G., & Abdul-Talib, S. (2012). Cu(II) removal onto fungal derived biosorbents: Biosorption performance and the half saturation constant concentration approach. *International Journal of Research in Chemistry and Environment*, 2(3), 138-143.
4. Yong, S. K., Bolan, N. S., Lombi, E., Skinner, W., & Guibal, E. (2012). Sulfur-containing chitin and chitosan derivatives as trace metal adsorbents: A review. *Critical Reviews in Environmental Science and Technology*, 43(16), 1741-1794.
5. Yong, S.K., Bolan, N., Lombi, E. & Skinner, W. (2013). Synthesis and Characterization of Thiolated Chitosan Beads for Removal of Cu (II) and Cd (II) from Wastewater. *Water, Air, & Soil Pollution*, 224 (12), 1-12.
6. Yong, S.K., Shrivastava, M., Srivastava, P., Kunhikrishnan, A. & Bolan, N. (2015). Environmental Applications of Chitosan and Its Derivatives, *Reviews of Environmental Contamination and Toxicology*, 233, 1-43.
7. Yong, S.K., Bolan, N., Lombi, E. & Skinner, W. (2015). Enhanced Zn(II) and Pb(II) Removal from Wastewater Using Thiolated Chitosan (ETB). *Malaysian Journal of Analytical Sciences*, 19 (3), 1-9.
8. Yong, S. K., Skinner, W., Bolan, N. S., Lombi, E., Kunhikrishnan, A. & Ok, Y. S. (2016). Sulfur crosslinks from thermal degradation of chitosan dithiocarbamate derivatives and thermodynamic study for sorption of copper and cadmium from aqueous system. *Environmental Science and Pollution Research*, 23(2), 1050-1059.
9. Yong, S. K., Zin, S. N. M. & Ariff, M. J. M. (2016). Effect of rain pH, soil organic matter, cation exchange capacity and total lead content in shooting range soil on the concentration of lead in leachate. *Malaysian Journal of Analytical Sciences*, 20 (5), 1066-1072.
10. Salleh, N. M. A., Pengiran Ismail, D. K. & Yong, S. K. (2017). Effect of blood cockle shell and palm kernel shell weight ratio on the acid neutralizing capacity of calcined products. *Pertanika Journal of Sciences & Technology*. 25(S), 159-166.
11. Yong, S. K., Khairoll Annuar, N. A. & Ariff, M. J. M. (2017). Immobilization of lead in shooting range soil using biochar from spent mushroom substrate. *Journal of Fundamental & Applied Sciences*, 9(6S), 89-101.
12. Mohd Zaid, K. Z., Jamion, N. A., Omar, Q. & Yong, S. K. (2017). Sorption of malachite green (MG) by cassava stem biochar (CSB): Kinetic and Isotherm Studies. *Journal of Fundamental & Applied Sciences*. 9(6S), 273-287.
13. Salleh, N. M. A., Ishak, C. F., Saat, A. & Yong, S. K. (2017). Aluminum toxicity in Acid Sulfate Soil Alleviated with Biogenic Liming Composites of Blood Cockle Shell and Palm Kernel Shell. *Journal of Fundamental & Applied Sciences*. 9 (6S), 965-980.
14. Halim, S. F., Yong, S. K. & Tay, C. C. (2017). Ammonia nitrogen adsorption using spent mushroom substrate biochar (SMSB). *Pertanika Journal of Sciences & Technology*. 25(S), 9-20.

**CONFERENCE PROCEEDINGS**

1. Mohd Idrus, N. F., Jamion, N. A., Omar, Q., Sheikh Md Ghazali, S. A. I., Abdul Majid, Z. & Yong, S. K. (2017). Impregnation of Sawdust Biochar with Magnesium for Precipitation of Struvite from Urine. Proceedings presented in the 5th Conference of Science & Social Research, Melaka, Malaysia.

2. Yong, S. K., Leyom, J., Tay, C. C. & Abdul Talib, S. (2017). Sorption of lead from aqueous system using cocoa pod husk biochar: kinetic and isotherm studies. Proceedings presented in the 5<sup>th</sup> Conference of Science & Social Research, Melaka, Malaysia.
3. Yong, S.K., Skinner, W., Bolan, N., & Lombi, E. (2012). Less is more - Partial thiolation of porous chitosan beads to enhance Cu(II) adsorption. Second Malaysian Postgraduate Conference (p. 131). Bond University, Gold Coast, Queensland.

#### BOOK CHAPTER

1. Yong, S. K., & Wong, T. W. (2013). Chitosan for Body Weight Management: Current Issues and Future Directions. In S.-K. Kim. Marine Nutraceuticals: Prospects and Perspectives (pp. 151-168). Boca Raton: CRC Press. ISBN 9781138199965.
2. Yong, S. K., & Abdul Talib, S. (2017). Chapter 17. Case studies of successful mine site rehabilitation – Malaysia. In N.S. Bolan, M. B. Kirkham, & Y. S. Ok. Spoil to Soil: Mine Site Rehabilitation and Revegetation (pp. 309-334). Boca Raton: CRC Press. ISBN 9781498767613.

#### BOOK

1. Yong, S.K., Wood, A.K., Ahmad, A.R. (2015). Laboratory Manual for Soil Science and Analysis. UiTM Press. Shah Alam. pp 1-108.

#### MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Professional Organization	Role	Membership Duration
Australian Society of Soil Science Inc	Member	2011-2015
American Society of Agronomy-Crop Science Society of America-Soil Science Society of America	Student Member	2012-2015
The Malaysian Institute of Chemistry	Associate Member	2009-Present
The Malaysian Analytical Sciences Society	Life Member	2005-Present
Institute of Materials Malaysia	Council Member	2016-present

#### LANGUAGES PROFICIENCY

English – speak fluently and read/write with high proficiency

Mandarin – speak fluently and read/write with moderate proficiency

Malay – speak fluently and read/write with high proficiency

#### REFERENCES

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