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**Present Address:**

Head, Environmental Nanotechnology Laboratory,  
Department of Environmental Science and Engineering,  
Indian Institute of Technology (ISM) Dhanbad  
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**WOS (h-index ):15, Google (h-index): 19**



**Professional Experience:**

- ❖ September 2016 – Till date: **Associate Professor, Department of Environmental Science and Engineering** Indian Institute of Technology (ISM)Dhanbad, Dhanbad-826004, Jharkhand, INDIA
- ❖ February 2010 –August 2016: **Senior Lecturer, Environmental Engineering Programme, Department of Civil Engineering**, Faculty of Engineering, University of Malaya, Kuala Lumpur-50603, MALAYSIA.
- ❖ February 2011 – August 2016: **Affiliated Member, Nanotechnology & Catalysis Research Center (NANOCAT)**, University of Malaya, Kuala Lumpur-50603, MALAYSIA.
- ❖ September 2009 – December 2009: **Assistant Professor (Tenure Track), Department of Chemical Technology, Chemical Faculty**, Politechnika Gdańska, ul. G. Narutowicza 11/12,80-233 Gdańsk, POLAND
- ❖ November 2008 – August 2009: **Assistant Professor, Department of Chemical Engineering**, National Institute of Technology Tiruchirappalli, Tiruchirappalli- 620 015, INDIA
- ❖ June 2008 – August 2008: **Senior Lecturer, Department of Chemical Engineering & Materials Science**, Amrita University, Coimbatore-641023, INDIA

**Educational Qualification:**

- ❖ **Ph.D., Chemical Engineering**, September 2008, Indian Institute of Technology Guwahati (IITG), Guwahati, INDIA(<http://gyan.iitg.ernet.in/handle/123456789/164>)Adviser(s): Prof. Dr. P. K. Saha, Prof. Dr .K. Pakshirajan
- ❖ **M.Tech, Environmental Engineering (First Class with Distinction)**, January 2003, Vellore Institute of Technology University, Vellore, INDIA
- ❖ **Post Graduate Diploma in Medical Instrumentation Technology, (First Class)** May 2001, Coimbatore Institute of Technology (Autonomous), Coimbatore, INDIA
- ❖ **B. Tech, Chemical Engineering, (First Class)** May 2000, University of Madras, Chennai, INDIA

**Teaching Activities:**

- ❖ **IIT(ISM)Dhanbad**, India
  - Handling **Environmental Management System and Audit, Environmental Nanotechnology, Design of Air Pollution Equipment's**, modules for Environmental Engineering Undergraduates and Post Graduates.
- ❖ **University of Malaya**, Malaysia
  - Handled **Environmental Microbiology and Ecology, Air and Noise Pollution, Environmental Management System, Ecology Field Trip, Environmental Health Engineering & Environmental Chemistry** modules with laboratories for Environmental Engineering Undergraduates.
  - Handled **Environmental Engineering** for Civil Engineering Undergraduates
  - Guided under Graduate Thesis
- ❖ **Politechnika Gdańska**, Poland
  - Handled **AUTOCAD & CHEMCAD** to chemical technology, environmental protection & Management undergraduate students
- ❖ **National Institute of Technology Tiruchirappalli**, INDIA
  - Handled **Nanotechnology** course and **guided projects** to chemical engineering undergraduate (B. Tech) students, Taught **Bio processing Engineering** for post graduate students (M.Tech) and

mentored thesis

- Handled **Energy & Environment** to first year undergraduate (B. Tech) students

❖ **Amrita University**, INDIA

- Handled **Material Science**

**Research Focus:**

- ❖ Light Driven Nanomaterials for Sustainable Environmental & Energy Applications
- ❖ Alternative Materials for Light Driven Applications
- ❖ Materials Chemistry
- ❖ Waste Recycling
- ❖ Microbial Fuel Cell
- ❖ Environmental Biotechnology

**Affiliations:**

- ❖ **Member** (636438) **Royal Society of Chemistry**, UK
- ❖ **Senior Member** (9900121518), **American Institute of Chemical Engineers(AIChE)**, USA
- ❖ **Associate Member** (LAM 29738), **Indian Institute of Chemical Engineers**, (IIChe), INDIA
- ❖ **Reviewer:** Chemical Engineering Journal, Journal of Materials Chemistry A, Applied catalysis: Environmental B, ACS Applied Materials & Interfaces, Nature Scientific Reports, Applied Surface Science, Chemosphere, Catalysis Science and Technology, Journal of Chemical Environmental Engineering, Journal of Hazardous Materials, Materials Science & Engineering B, Desalination, Indian Journal of Chemistry: Sec A, Industrial & Engineering Chemistry research, Chemical Engineering Research and Design, CLEAN - Soil, Air, Water, Biocatalysis and Agricultural Biotechnology etc.,
- ❖ **Editorial Board Member**, [Journal of Biorenewable Energy Research](#) Published by ISSR
- ❖ **Editorial Board Member**, [Journal of Chemical Engineering](#) Published by Isaac Scientific Publishing, Hong Kong
- ❖ **Editorial Board Member**, [Current World Environment Journal](#), by Enviro Research Publishers, India
- ❖ **Editorial Board Member**, [The Open Chemical Engineering Journal](#) (ISSN: 1874-1231), Bentham Open

**Research Dissertation: @University of Malaya**

Name of Candidate	Title of thesis	Year Completed	Degree	Current Affiliation
<a href="#">Dr.A. Ashok Kumar</a> Graduate of IITGuwahati, INDIA	Rheology and Particle Image Velocimetry	2013-2015	Post Doc	Assistant Professor, <a href="#">Periyar Maniammai University</a> Thanjavur, India
<a href="#">Dr. Kang Yee Li</a> : (Fast Track): My Brain Recipient (MOE, Malaysia)	Enhancement of Microbial Fuel Cell Anode through Functionalization of Conductive Polymer	2016	Doctoral	Environmental Sustainable Design Engineer G Energy Pvt.,Ltd MALAYSIA
<a href="#">Dr. Leong Kah Hon</a> : Bright Spark Fellow(UM) Recipient	<a href="#">Preparation and characterization of Plasmonic triggered composite nano photocatalysts for visible light driven photocatalysis.</a>	2015	Doctoral	Assistant Professor, <a href="#">Universiti Tunku Abdul Rahman</a> , Kampar, MALAYSIA
<a href="#">Mrs. Anis Nurdhiani Rosdia</a> : My Brain Recipient (MOE, Malaysia)	Preparation and Characterization of Proton Exchange Membrane (PEM) Using Different Polystyrene Precursors Through Varied Methods	2015	M.Engg.Sci (Research)	Ph.D Scholar, <a href="#">Universiti Putra</a> Malaysia

**Curriculum Vitae of Dr. Saravanan Pichiah**

<b>Dr. Sim Lan Ching:</b> My Brain Recipient (MOE, Malaysia)	Synthesis of Solar and Visible-Light-Active Highly Ordered Titania Nanotube Arrays (TNTs) for Photocatalytic Applications	2015	Doctoral	Assistant Professor, <a href="#">Universiti Tunku Abdul Rahman</a> , Kampar, MALAYSIA
<b>Dr. Azrina Abd Aziz:</b> My Brain Recipient (MOE, Malaysia)	Development and application of improved solar driven composite nano photocatalysts with enhanced recovery for the removal of organic pollutants	2013	Doctoral	Senior Lecturer, <a href="#">Universiti Malaysia Pahang</a> , Kunatan MALAYSIA
<b>Miss. Nur Atiqah Binti Surib</b>	Design and Fabrication of Solar Light Responsive New Metal Organic Frameworks for Photocatalysis	2018	M.Engg.Sci (Research)	---

**Master Dissertation: @NITT India**

<b>Mr. R. Lakshmi Narayana</b>	Photocatalytic oxidation using metal doped TiO <sub>2</sub> for degradation of organic pollutants	2010	M.Tech@NITT Jointly with Dr. M.Matheswaran	---
<b>Mr. Prasad Sudamalla</b>	Optimization of operating parameters using RSM for the adsorption of crystal violet	2010	M.Tech@NITT Jointly with Dr. M.Matheswaran	---

**Master Dissertation: @IIT(ISM) India**

<b>Mr. Rajesh reddy Ninakanti</b>	Full Solar Spectrum Driven Photocatalyst	2018	---
<b>Mr. Amit Kumar Verma</b>	Evaluation of Microbial Fuel Cell	2018	---
<b>Mr. Ranjeeth Kumar Gorain</b>	Graphene Build Nano Adsorbent	2018	---

**Research Dissertation (Doctoral): @ IIT(ISM)**

Name of Candidate	Field of Research	Year of Enrolment
<b>Mr. Ahmad Nawaz</b>	Metal Oxide build Light Driven Nanomaterials	Summer 2016
<b>Mr. Aneek Kula</b>	Metal Organic Frame Works build Light Driven Nanomaterials	Summer 2016
<b>Mr. Nirmalendu S. Mishra</b>	Metal Oxide and Graphene Build Nano Adsorbent	Summer 2016
<b>Miss. Priya Mukherjee</b>	Microbial Fuel Cell/Light Driven Nanomaterials	Summer 2017
<b>Miss. Ankita Rani</b>	Light Driven Nanomaterials/Z-scheme	Summer 2017
<b>Miss. Utkarshni Sharma</b>	Metal Organic Frame Works for Water Treatment	Winter 2018
<b>Miss. Priyanka Mishra</b>	Reverse Methanogenesis build Microbial Fuel Cell	Winter 2018

**Internship Student Visited @University of Malaya (2010-16):**

**Year 2011**

Mr. Alabhya Kumar Mishra, IITKanpur, INDIA

**Year 2012**

Mr. Prateek Sachan, IIT Delhi, INDIA

Mr. Himanshu Patel, IIT Delhi, INDIA

Mr. Vijay Singh Kulhar, IIT Bhubaneswar, INDIA

**Year 2013**

Miss. Laura Digan, ENSIACET, Toulouse, FRANCE

**Year 2014**

Mr. Pratyush Kumar, IIT Roorkee, INDIA

**Year 2015**

Mr. Keshav Mehta IIT Roorkee, INDIA

**Year 2016**

Mr. Varun Punia, IIT Roorkee,INDIA

**Year 2017-18**

Miss.Triya Mukherjee, BHU, Varasani

Mr. Amit Bundela, BHU, Varasani

**Under Graduate Thesis Guided: 18**

**Moderated Thesis as External Examiner: 8**

**Research Endowment as Principal Investigator @ University of Malaya**

No	Project No	Title	Duration	Allocation (MYR)	Funding Agency	Status
1	Strait Trading (E-00000-19103)	Establishing New Analytical Facility for Environmental Engineering.	2011-13	2500,000	Vice-Chancellor Special Grant	Completed
2	RG091-10SUS	Preparation of high surface area magnetically separable titanium dioxide with visible light property for environmental applications	2010-12	99,000	UMRG	Completed
3	RG167-12SUS	Development of modified TiO <sub>2</sub> -photocatalyst for improved conversion of hydrocarbon fuel from Greenhouse gas (CO <sub>2</sub> )	2012-14	116,600	UMRG	Completed
4	UM.C/625/1 /HIR/053/2	Sustainable Energy Production from Palm Oil Industry Wastewater using Microbial Fuel Cell.	2011-13	189,000	High Impact Research(HIR), University of Malaya	Completed
5	PV092-2011A	Preparation of high surface area magnetically separable titanium dioxide with visible light property for environmental applications	2011-14	60,000	UMRG	Completed
6	PV106-2012A	Development of nano photocatalyst for the direct conversion of CO <sub>2</sub> to hydrocarbon fuel	2012-15	26,800	UMRG	Completed

7	PG022-2013A	Preparation and Characterization of Proton Exchange Membrane From Sulfonated Polystyrene And Zeolite For Microbial Fuel Cell Application.	2013-16	16,000	UMRG	Completed
8	RP019B-13AET	Preparation and photoactivity of nanostructured composite strontium titanate (SrTiO <sub>3</sub> ) for sustainable treatment of persistent organic pollutants (POPs)	2013 -16	163,000	UMRG Programme	Completed
9	FP051-2013B	Fundamental Exploration of Surface Plasmon Resonance Mechanism on Visible Light Absorption in Titania based Photocatalysts	2013 -17	122,000	Ministry of Education, Malaysia	Completed

**Research Endowment as Principal Investigator @ IIT(ISM)**

No	Project No	Title	Duration	Allocation (INR)	Funding Agency	Status
1	FRS(109/2016-17/ESE)	Facile synthesis of Light Driven Nanostructures Hybrid Pervoskite for Sustainable Treatment of POPs	2016-19	1000,000	IIT(ISM)Dhanbad	Ongoing
2.	ECR/2016/001400	Design and Development of Full Solar Spectrum Enriched Photocatalyst for Sustainable Water Treatment	2017-2020	1540,000	Science and Engineering Research Board, Early Career Award DST	Ongoing

**Publications:** (2017 Journal Citation Reports, Clarivate Analytics 2018)

**2018**

1. K. H. Leong, J.Q. Lee, A. Ashok Kumar, L. C. Sim, **S. Pichiah**. Immobilising TiO<sub>2</sub> nanoparticle onto glass substrates through a facile technique for photocatalytically self-cleaning of indoor air pollutant. *Malaysian Journal of Analytical Sciences*. Accepted. *Light Driven Nanomaterial's*
2. C.H. Hak, L.C. Sim, K.H. Leong, P.F.Lim, Y.H. Chin, **P. Saravanan**, M/gC<sub>3</sub>N<sub>4</sub>(M= Ag, Au, and Pd) composite: synthesis via sunlight photodeposition and application towards the degradation of bisphenol A. *Environmental Science and Pollution Research*, 2018 In press, DOI 10.1007/s11356-018-2632-8 (IF:2.8) *#Light Driven Nanomaterial's*
3. N.A. Surib, A. Kuila, **Saravanan P\***, L.C. Sim, K.H. Leong. A ligand Strategic Approach with Cu- MOF for Enhanced Solar Light Photocatalysis. *New Journal of Chemistry*, 42, 11124-11130 (IF:3.201) *#Light Driven Nanomaterial's*
4. S. Sharmini, K.H. Leong; T.K. Wong; G. Lee, **S.Pichiah**, I.W Na, B.H. Jeon, Y.Yoon; M. Jang, Sonophotocatalytic degradation of Bisphenol A and its intermediates with graphitic carbon nitride, 2018,*Environmental Science and Pollution Research*, 2018 In press, DOI 10.1007/s11356-017-8729-7 (IF:2.8) *#Sonochemistry*
5. L.C.Sim, J.L. Wong, C.H. Hak, J.Y. Tai, K.H. Leong, **P. Saravanan**. Sugarcane juice-derived carbon dots and g-C<sub>3</sub>N<sub>4</sub> composites for Bisphenol A degradation under sunlight irradiation. *Beilstein Journal of Nanotechnology*. 9, 353–363 (IF: 2.968). *#Light Driven Nanomaterials*
6. K.H.Leong, A.A. Aziz, L.C. Sim, **P. Saravanan\***, M. Jang, D.Bahnemann. Mechanistic Insights of Plasmonic Photocatalyst in Utilizing Visible Light. *Beilstein Journal of Nanotechnology*. 9 (1), 628-648 (IF: 2.968). *#Light Driven Nanomaterials*
7. N.S. Mishra, A.Kuila , A.Nawaz , **S.Pichiah\***, K.H.Leong, M.Jang. Engineered Carbon nanotubes: Review on the role of surface chemistry, mechanistic features, and toxicology in the adsorptive removal of aquatic pollutants. *ChemistrySelect*. 3(4)1040-1055 (IF: 1.505). *# Nanoadsorbent*

8. K.H. Leong, P.F. Lim, L.C. Sim, V. Punia, S. Pichiah. Improved solar light stimulated charge separation of g-C<sub>3</sub>N<sub>4</sub> through self-altering acidic treatment. *Applied Surface Science*. 2018, 430,355-361 (IF: 4.439). # *Light Driven Nanomaterial's*

## 2017

9. N.S.Mishra, R.Reddy, A.Kuila, A.Rani, P.Mukherjee, A.Nawaz, S.Pichiah. A review on advanced oxidation processes for effective water treatment. *Current World Environment*. 2017, 12(3), 470-490 (ISI Index). # *Advanced Oxidation Processes*
10. N.A.Surib, L.C. Sim, K.H.Leong, A. Kuila, P. Saravanan, K.M.Lo, S. Ibrahim, D. Bahnemann, M.Jang. Ag<sup>+</sup>, Fe<sup>3+</sup> and Zn<sup>2+</sup> Intercalated Cadmium (II)-Metal-Organic Frameworks for enhanced Day Light Photocatalysis. *RSC Advances*. 2017, 7, 51272-51280 (IF: 2.936). # *Light Driven Nanomaterial's*
11. A.Kuila, N. A. Surib, N.S. Mishra, A. Nawaz, K.H. Leong, L.C. Sim, P.Saravanan, S. Ibrahim Metal Organic Frameworks: A New Generation Coordination Polymers for Visible Light Photocatalysis. *ChemistrySelect*. 2017, 2(21)6163-6177 (IF: 1.505). # *Light Driven Nanomaterials*
12. J.Y. Tai, K.H. Leong, P.Saravanan, A. A. Aziz., L.C. Sim. Dopant free oxygen-rich titanium dioxide: LED light induced photocatalysis and mechanism insight. *Journal of Materials Science*. 52, (19), 11630–11642. (IF: 2.993). *Light Driven Nanomaterial's*
13. W.H. Tan, C.H.Hak, P.Saravanan, K.H.Leong, L.C. Sim, Titania with alkaline treated graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) to improve photocatalysis properties. *IOP Conf. Series: Materials Science and Engineering* 205 (2017) 012023 doi:10.1088/1757-899X/205/1/012023. *Light Driven Nanomaterial's*
14. S. Sharmini, T.K. Wong, G. Lee, S. Pichiah, S. Ibrahim, C. Park, N.C.Kim, Y. Yoon, M. Jang, Titanium dioxide-based sonophotocatalytic mineralization of bisphenol A and its intermediates, *Environmental Science and Pollution Research*, 2017, 24(18), 15488–15499 (IF 2.8) # *Sonochemistry*
15. K. H. Leong, A.A.Azrina, Y.L. Kang, S.W.Goh, K.V. Singh L. C. Sim, P. Saravanan. Synergized mechanistic and solar photocatalysis features of n-tio<sub>2</sub> functionalised activated carbon, *AIMS Materials Science*. 2017, 4(3): 800-813. *Light Driven Nanomaterial's*
16. M. Harshiny, S. Pichiah, K.H. Leong, M. Matheswaran. Facile biosynthesis of ZnO and Iron doped ZnO nano-catalyst: physicochemical traits and multifunctional applications. *Journal of Bionanoscience*, 2017, 11, 114–122. (SJ: 0.612) # *Nanotechnology*
17. Kang Y.L., P. Saravanan\*, Ibrahim S., Facile reconstruction of microbial fuel cell (MFC) anode with enhanced exoelectrogens selection for intensified electricity generation. *International Journal of Hydrogen Energy*. 2017, 42,3,1661-1671 (4.229) # *Microbial Fuel Cell*
18. K.H.Leong, Z.Z. Tan, L.C. Sim, P. Saravanan\*, D. Bahnemann, M. Jang, Symbiotic interaction of amalgamated photocatalysts with improved day light utilisation and charge separation. *ChemistrySelect*. (IF: 1.505)2017, 2, 84-8. # *Light Driven Nanomaterials*
19. L.C. Sim, W.C. Tan, K.H. Leong, M.J.K. Bashir, P. Saravanan, N.A. Surib, Mechanistic characteristics of surfacemodified organic semiconductor g-C<sub>3</sub>N<sub>4</sub> nano tubes alloyed with titania. *Materials*. 2017,10(1),28 (IF: 2.467). # *Light Driven Nanomaterials*
20. M.Harshiny, C.Nivedhiniswarya, N. Samsudeen, P.Saravanan, M. Matheswaran, Iron oxide nano-material: physicochemical traits and in vitro antibacterial propensity against multidrug resistant bacteria, *Journal of Industrial & Engineering Chemistry*, 2017, 45, 121-130 (IF:4.841).# *Nanotechnology*

## 2016

21. K.H. Leong, L.C. Sim, P. Saravanan\*, S. Ibrahim, Light Driven Nanomaterials for Removal of Agricultural Toxins. *Sustainable Agriculture Reviews Volume 23:Chapter 9*, Nanoscience in Food and Agriculture, Editors: Drs. S. Ranjan, N. Dasgupta and E. Lichtfouse. 2016,225-242, ISBN 978-3-319-48008-4, Springer. # *Light Driven Nanomaterials*
22. S.K. Mei, Y.L. Kang, A. N. Rosdi, P. Saravanan\*, S. Ibrahim, Synthesis and Characterization of Proton Exchange Membrane employing Waste Polystyrene as Precursor, *Natural Resources & Engineering*, 2016 1, 35 – 42. # *Membrane Science*
23. A.N. Rosdia, Y.L. Kang, P. Monash, S. Ibrahim, P. Saravanan\* Preparation and characterization of zeolite polymer composite proton exchange membrane. *Desalination and Water Treatment*. 2016, 57(1)13-21. (IF: 1.383). # *Membrane Science*

## 2015

24. L.C. Sim, S. Ibrahim, P. Saravanan\*, Rapid thermal reduced graphene oxide/Pt-TiO<sub>2</sub> nanotube arrays for enhanced visible-light-driven photocatalytic reduction of CO<sub>2</sub>, *Applied Surface Science*. 2015 358, 122–129. (IF: 4.439). # *Artificial Photosynthesis*
25. K.H. Leong, L.C. Sim, P. Saravanan\*, M. Jang, S. Ibrahim, Surface reconstruction of titania with g-C<sub>3</sub>N<sub>4</sub> and Ag for promoting efficient electrons migration and enhanced visible light photocatalysis. *Applied Surface Science*. 2015 358,

- 370–376 (IF 4.439). #Light Driven Nanomaterials
26. S. Kittappa, P. Saravanan, K.R. Kim, Y. Yoon, S.A. Snyder, M. Jang, Magnetised nanocomposite mesoporous silica and its application for effective removal of methylene blue from aqueous solution, *Separation and Purification Technology*, 2015, 53(16)67-75. (IF: 3.927). #Environmental Nanotechnology
  27. N. Ranjini, M. Jang., P. Saravanan, J. Cho, S. A. Snyder, Nano-structured magnesium oxide coated iron ore: its application to the remediation of wastewater containing lead. *Journal of Nanoscience and Nanotechnology*. 2015, 9603-9611, (IF: 1.357) #Environmental Nanotechnology
  28. K.H. Leong, L.C. Sim, D.W. Bahnemann, M. Jang, S. Ibrahim, P. Saravanan\*, Reduced graphene oxide and Ag wrapped TiO<sub>2</sub> photocatalyst for enhanced visible light photocatalysis. *APL Materials*, 2015 10(3) 104503. (IF:4.127). #Light Driven Nanomaterials
  29. Y.L. Kang, S. Ibrahim, S. Pichiah\*, Synergetic effect of conductive polymer poly(3, 4-ethylenedioxythiophene) with different structural configuration of anode for microbial fuel cell application. *Bioresource Technology*.2015, 189, 364-369. (IF: 5.807). #Microbial Fuel Cell
  30. A.A. Azrina, S. Ibrahim, P. Saravanan, Nanocrystal TiO<sub>2</sub> engulfed SiO<sub>2</sub>-barium hexaferrite for enhanced electrons mobility and solar harvesting potential, *Materials Science Forum*, 2015 819,226-231. #Light Driven Nanomaterials
  31. K.H. Leong, H.Y. Chu, S. Ibrahim, P. Saravanan\*, Palladium nanoparticles anchored with anatase TiO<sub>2</sub> for enhanced surface plasmon resonance-stimulated, visible-light driven, photocatalytic activity. *Beilstein Journal of Nanotechnology*. 2015 6, 428–437. (IF: 2.968). #Light Driven Nanomaterials
- 2014**
32. Leong, K.H., Gana, B.L., Ibrahim, S., Saravanan.P\*, Synthesis of Surface Plasmon Resonance (SPR) Triggered Ag/TiO<sub>2</sub> photocatalyst for degradation of Endocrine Disturbing Compounds, *Applied Surface Science*, 2014, 319, 128-135. (IF: 4.439). #Light Driven Nanomaterials
  33. Sim L.C., Leong, K.H., Ibrahim, S., Saravanan. P\*, Graphene oxide and Ag engulfed TiO<sub>2</sub> nanotube arrays for enhanced electrons mobility and visible-light- driven photocatalytic performance. *Journal of Materials Chemistry A*. 2014, 2(15), 5315 - 5322. (IF:9.931). #Light Driven Nanomaterials
  34. Leong K. H., Monash, P., Ibrahim, S., Saravanan. P\*, Solar Photocatalytic Activity of Anatase TiO<sub>2</sub> Nano Crystals Synthesized by Non-Hydrolytic Sol-Gel Method. *Solar Energy*.2014, 101, 321-332. (ScienceDirect's Top 25 Hottest Articles, January to December 2014 full year, IF: 4.374). #Light Driven Nanomaterials
  35. Azrina A.A, Yau, Y.H, Puma, G.L., Fischer. C., Ibrahim, S., Saravanan,P\*, Highly Efficient Magnetically Separable TiO<sub>2</sub>-Graphene Oxide Supported SrFe<sub>12</sub>O<sub>19</sub> for Direct Sunlight-Driven Photoactivity. *Chemical Engineering Journal*.2014, 235 (1), 264-274. (IF: 6.216). #Light Driven Nanomaterials
  36. Sim, L.C, Ng, K.W., Ibrahim, S., Saravanan, P\*, Synthesis, Features and Solar-Light-Driven Photocatalytic Activity of TiO<sub>2</sub> Nanotube Arrays Loaded with SnO<sub>2</sub>, *Journal of Nanoscience and Nanotechnology*, 2014,14(7),7001 7009. (IF: 1.357) #Light Driven Nanomaterials
- 2013**
37. Aziz A.A., Puma, G.L., Ibrahim, S., Saravanan, P\*, Preparation, characterization and solar photoactivity of titania supported strontium ferrite nanocomposite photocatalyst. *Journal of Experimental Nanoscience*. 2013, 8(3)295-310. (IF: 1.362). #Light Driven Nanomaterials
  38. Anusha. S., Azrina A.A., Saravanan. P., Matheswaran. M., Adsorption of Mercury (II) ion from aqueous solution using low cost activated carbon prepared from mango kernel. *Asia Pacific Journal of Chemical Engineering*.2014, 8(1), 1-12. (IF: 1.238). #Adsorption
  39. Suganya, K., Kang, Y.L., Matheswaran, M., Ibrahim, S., Saravanan, P\*, Intimate Coupling of Electro and Biooxidation of Tannery Wastewater, *Desalination and Water Treatment*. 2013, 51(34-36), 6617-6623 (IF: 1.383). #Process Intensification
  40. Kang, Y.L., Poon, M.Y., Monash, P., Ibrahim, S., Saravanan.P\*, Surface chemistry and adsorption mechanism of cadmium ion on activated carbon derived from *Garcinia Mangostana* shell. *Korean Journal of Chemical Engineering*.2013, 30(10)1904-1910 (IF: 2.199). #Adsorption
  41. Kang, Y.L., See Toh, S. K., Monash, P., Ibrahim,S., Saravanan, P\*, Adsorption isotherm, kinetic and thermodynamic studies of activated carbon prepared from *Garcinia Mangostana* shell. *Asia Pacific Journal of Chemical Engineering*.2013, 8 (6)811 818. (IF: 1.238) #Adsorption
  42. Monash, P., Pugazhenth, G., Saravanan P., Various Fabrication Methods of Porous Ceramic Supports for Membrane Applications. *Reviews in Chemical Engineering*, 29(5), 357-383. (IF: 4.490). #Membrane Science
  43. Ng, K.W., Lam, W H., Pichiah. S., A review on potential applications of carbon nanotubes in marine current turbines, *Renewable and Sustainable Energy Reviews*. 2013, 28, (31)331-339. (IF 9.184). #Renewable Energy
  44. Sim, L.C., Ng, K.W., Ibrahim, S., Saravanan, P\*. Preparation of improved p-n junction NiO/TiO<sub>2</sub> nanotubes for Solar-Energy-Driven Light Photocatalysis. *International Journal of Photoenergy*. Volume 2013 (2013), Article ID 659013, 10

pages. (IF: 1.574). #Light Driven Nanomaterials  
2012

45. Kaan, C.C., Aziz, A.A., Ibrahim,S., Matheswaran, M., **Saravanan, P\***. Heterogeneous Photocatalytic Oxidation an Effective Tool for Wastewater Treatment: A Review, **Studies on Water Management Issues**,Intech Publishers, 2011, ISBN 978-953-307-961-5. pp 219-236. #Light Driven Nanomaterials
46. Azrina A. A, Soon, Y. K., Ibrahim. S., **Pichiah.S,\*** Enhanced Magnetic Separation and Photocatalytic activity of Nitrogen doped Titania Photocatalyst Supported on Strontium Ferrite. **Journal of Hazardous Materials**. 2012, 199-200,143-150. (IF: 6.434).#Light Driven Nanomaterials
47. Sudamalla, P., **Saravanan, P.**, Matheswaran, M., Optimization of operating parameters using response surface methodology for adsorption of crystal violet by activated carbon prepared from mango kernel. **Sustainable Environmental Research**. 2012, 22 (1), 1-7. (Cite Score: 1.29) #Adsorption
48. Azrina, A.A., Cheng, C.K., Ibrahim. Matheswaran, M., **Saravanan, P\***, Visible Light Improved, Photocatalytic Activity of Magnetically Separable Titania Nanocomposite. **Chemical Engineering Journal**.2012, 183,349 356 (IF: 6.735). # Light Driven Nanomaterials
49. Sudamalla, P., **Saravanan, P.**, Matheswaran, M., Response Surface Modeling and Optimization of Brilliant Green Adsorption by Adsorbent Prepared from Citrus limetta Peel. **Desalination & Water Treatment**, 2012, 50(1-3), 367-375 (IF: 1.383). #Adsorption

2011

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2. Kang, Y.L., S. Ibrahim, P. Saravanan Enhancement of microbial fuel cell anode through conductive polymer, European Fuel Cell Technology & Applications Conference - PieroLunghi Conference, December 16-18, 2015, Naples, ITALY.
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19. Azrina,A.A., Li K.Y., Ibrahim, S., **Saravanan, P.** Adsorption of Cadmium ion from Aqueous solution using Activated Carbon Prepared from Garcinia mangostana Shell. **International congress on Green process Engineering(GPE 2011)**, Kuala Lumpur - Malaysia, December 6-8, 2011. **International congress on Green process Engineering(GPE 2011)**, University of Toulouse, France: University of Malaya,06 -08 December 2011, Kuala Lumpur, **MALAYSIA**.
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#### **Key Administrative Responsibilities Held at University of Malaya (2010-16):**

- ❖ **Head**, Water Resources & Environmental Engineering Cluster, Department of Civil Engineering (2012-2016)
- ❖ **Member**, Curriculum Revision Committee: (2012-2016)
- ❖ **Member**, Accreditation Committee(EAC) (2012-2015)
- ❖ **Coordinator**, Under Graduate Thesis (Civil &Environmental Under Graduates):(2014-2016)
- ❖ **Faculty Coordinator**, Student Exchange for Indian Institute of Technology(IITs) India: (2012-2016)
- ❖ **Joint Secretary**, 11<sup>th</sup> International Conference on Concrete Engineering & Technology 2012 (CONCET 2012)
- ❖ **Member**, Master of Engineering Committee (Environmental Engineering):(2012-2016)
- ❖ **Chairman**, Civil and Environmental Engineering Postgraduate Association (CEEPA) of the Malaya University
- ❖ **Acting Head of Department** for many occasions
- ❖ **Resource person** as **Technical member** for various purchase across the faculty and university

#### **Accomplishments at University of Malaya**

- ❖ Organized **11<sup>th</sup> International Conference on Concrete Engineering & Technology 2012 (CONCET 2012) -Joint Secretary**
- ❖ Established **New Analytical Facility for Environmental Engineering Research worth RM 2.5 million (~1 million US\$)**- Coordinator
- ❖ Received total **Research Endowment of RM 800K(~US\$200K)**

#### **Invited/Keynote Lectures:**

- ❖ Delivered Lecture on **“A Journey with Light Driven Nanomaterials”** at Centre for Nanotechnology/Department of Biotechnology, IIT Roorkee, Roorkee – 247667, INDIA 17 August 2017.
- ❖ Delivered Invited Lecture at **2<sup>nd</sup> International Workshop on Graphene and C<sub>3</sub>N<sub>4</sub>-based Photocatalysts (IWGCP2)** Organized by: State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan, CHINA, March 24 - 27, 2017.
- ❖ Speaker, **International Winter School and Hands-on Training Programme on Nano-biotechniques (I WiSH NanoBio: 2016)** Organized by: Department of Biotechnology and Centre for Nanotechnology, IIT Roorkee, Roorkee – 247667, INDIA February 9 - 14, 2016.
- ❖ Delivered invited lecture at **Workshop on Nanotechnology** organized by Department of Physics Fatima College (Autonomous), Madurai, INDIA, 18 Dec 2015.
- ❖ Delivered key note lecture at **International Conference on Recent Advances Materials Research and its Applications (ICRAMRIA15)**, Department of Chemistry, St. Xaviers College (Autonomous), Tirunelveli, Tamilnadu, INDIA, 16 Dec 2015.
- ❖ Delivered invited lecture at **International Conference on Nanomaterials For Energy, Environment, Catalysis And Sensors – 2015 (ICNECS-15)** Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai 11 -12 Dec 2015,
- ❖ Delivered invited Lecture at **International conference on Recent Advances in Materials and Chemical Sciences (ICRAMCS-2015)**, Department of Chemistry, Gandhigram Rural Institute, INDIA, 14 -15 Dec 2015.
- ❖ Delivered invited lecture on **Development of Modified Nanophotocatalysts for Enhanced Visible, Solar light driven Environment and Energy Applications**, National Centre for Nanosciences and Nanotechnology, University of Madras, India, August 3, 2015.
- ❖ Delivered talk on **Development of Modified Nanophotocatalysts for Enhanced Visible, Solar light driven Environment and Energy Applications**, Department of Biotechnology, Kumaraguru College of Engineering (Autonomous), Coimbatore, India August 27, 2015.
- ❖ Delivered talk invited on **Photocatalysis for Sustainable Environmental Remediation** Department of Chemical Engineering, Adhiyammaan College of Engineering (Autonomous), Hosur, India August 3, 2011.

#### **International Networking and Collaboration:**

- ❖ **Assoc.Prof. Dr. Gopinath P**, Department of Biotechnology, **Indian Institute of Technology Roorkee**, Uttarakhand **India**
- ❖ **Prof. Dr. Detlef Bahnemann**, Laboratory “Photocatalysis and Nanotechnology” (Head), Institut fuer Technische Chemie, Gottfried Wilhelm **Leibniz Universitaet** Hannover, Callinstrasse 3, D-30167 Hannover, **GERMANY**
- ❖ **Prof. Dr. Gianluca Li Puma**, Head Environmental Nanocatalysis & Photoreaction Engineering at **Loughborough University, UK**, **Associate Editor, Journal of Hazardous Materials**.
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- ❖ **Dr. Andreas Hänel**, Assistant Professor, Wydział Chemiczny Politechnika Gdańska, ul. G. Narutowicza 11/12, 80-233 Gdańsk, **POLAND**.
- ❖ **Dr. M. Matheswaran**, Assistant Professor, Department of Chemical Engineering, National Institute of Technology Thiruchirappalli, INDIA

#### **News, Mass media & Award:**

- ❖ **Received International Accreditation (2015)** for the work Degrading BPA with Visible Light and a New Hybrid Photocatalyst with a special coverage by various scientific news platforms and technical journals including [American Institute of Physics, July 21, 2015](#); [Photonics Spectra\(Science and technology magazines\)](#) United States in September 2015, [Asian Scientist Singapore](#) August 4, 2015.

- ❖ **Early Career Award Recipient 2016:** Awarded by Department of Science and Technology, Ministry of Science and Technology, Government of India
- ❖ **Innovation Competition Champion** organised in conjunction with Universiti Teknologi PETRONAS, (UTP) 20<sup>th</sup> Anniversary Celebration, 2017 under leadership of Prof. Dr. Ramesh T Subramaniam, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia.
- ❖ **Awarded Gold** in the International Eureka Innovation Exhibition 2017 organised by Universiti Kuala Lumpur Malaysian Spanish Institute (UniKL MSI) Kulim Malaysian under leadership of Prof. Dr. Ramesh T Subramaniam, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia.

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