

## CURRICULAM VITAE



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### **Current Position:** -----

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### **Personal:**-----

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Languages Known	: English, Malayalam, Hindi & Tamil

### **Publications**

- (1) Mary Jenisha Barnabas, [Surendran Parambadath](#), Saravanan Nagappan, Ildoo Chung and Chang-Sik Ha. [Silver \(I\)-Schiff-base complex intercalated layered double hydroxide with antimicrobial activity](#). *Advances in Nano Research*, 10, 4 (2021) 373-383 (**Impact factor = 13.052**).
- (2) Anandhu Mohan, Jerome Peter, Lipeeka Rout, Anju Maria Thomas, Saravanan Nagappan, Weijin Zhang, [Surendran Parambadath](#), Sung Soo Park, Chang-Sik Ha. [In-Situ Thermosensitive Hybrid Mesoporous Silica: Preparation and the Catalytic Activities for Carbonyl Compound Reduction](#). *Dalton Transactions*, (Accepted for Publication, June 2021, **Impact factor = 4.052**).
- (3) Anandhu Mohan, Jerome Peter, Lipeeka Rout, Anju Maria Thomas, Saravanan Nagappan, [Surendran Parambadath](#), Weijin Zhang, Manickam Selvaraj, Chang-Sik Ha. [Facile synthesis of silver nanoparticles stabilized dual responsive silica nanohybrid: A highly active switchable catalyst for oxidation of alcohols in aqueous medium](#). (2021) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 611. 125846 (**Impact factor = 3.99**).
- (4) [Surendran Parambadath](#), Aneesh Mathew, Anandhu Mohan, Chang-Sik Ha. [Chelation Dependent Selective Adsorption of Metal ions by Schiff Base Modified SBA-15 from Aqueous Solutions](#). (2020) *Journal of Environmental Chemical Engineering*, 8, 5, 104248, (**Impact Factor = 5.909**).
- (5) Anandhu Mohan, Lipeeka Rout, Anju M Thomas, Jerome Peter, Saravanan Nagappan, [Surendran Parambadath](#), Chang-Sik Ha. [Palladium nanoparticles-anchored dual-responsive SBA-15 catalyst for green Suzuki-Miyaura cross-coupling reaction](#). (2020) *RSC Advance*, 10, 28193-28204, (**Impact Factor = 3.361**).
- (6) Anandhu Mohan, Lipeeka Rout, Anju M Thomas, Saravanan Nagappan, [Surendran Parambadath](#), Sung Soo Park, Chang-Sik Ha. [Silver Nanoparticles Impregnated pH-responsive Nanohybrid System for the Catalytic Reduction of hazardous Dye](#). (2020) *Microporous and Mesoporous Materials*. 303, 15, 110260 (**Impact factor = 5.455**).
- (7) Mary Jenisha Barnabas, [Surendran Parambadath](#), Saravanan Nagappan, Chang-Sik Ha. [Sulfamerazine Schiff-base complex intercalated layered double hydroxide: synthesis, characterization, and antimicrobial activity](#). (2019) *Heliyon* 5, 4, 1-20. e01521. (**Source Normalized Impact per Paper = 0.572**)
- (8) [Surendran Parambadath](#), Aneesh Mathew, Su Yeon Kim, Sung Soo Park, and Chang-Sik Ha (2018). [Fe\(III\)-bis-ethylenediamine complex bridged periodic mesoporous organosilica for the efficient removal of arsenate and chromate](#). *Pure and Applied Chemistry*. 90, 5, 869-884. (**Impact factor = 2.453**)
- (9) K Madhusudana Rao, [Surendran Parambadath](#), Anuj Kumar, Chang Sik Ha, and Sung Soo Han. (2018) [Tunable intracellular degradable periodic mesoporous organosilica hybrid nanoparticles for doxorubicin drug delivery in cancer cells](#). *ACS Biomaterials Science & Technology*. 4, 1, 175-183. (**Impact factor = 4.749**)

- (10) Aneesh Mathew and [Surendran Parambadath](#)\*. [Metal adsorption property of succinamic acid functionalized MCM-41](#). (2018) SSRG International Journal of Applied Chemistry (SSRG - IJAC). 5, 1, 6-14.
- (11) Su Yeon Kim, [Surendran Parambadath](#), Sung Soo Park, and Chang-Sik Ha. (2017) [Melamine-Sulfonic acid functionalized SBA-15 for selective adsorption of metal ions from artificial seawater and wastewater](#). Journal of Nanoscience and nanotechnology. 17, 1-10. (Impact factor = 1.354)
- (12) Mary Jenisha, [Surendran Parambadath](#), Chang-Sik Ha\*. (2017) [Amino modified core-shell mesoporous silica based layered double hydroxide \(MS-LDH\) for drug delivery](#). Journal of Industrial and Engineering Chemistry, 53, 392-403. (Impact factor = 6.064)
- (13) Aneesh Mathew, [Surendran Parambadath](#), Mary Jenisha Barnabas, Su Yeon Kim, Dong Won Kim, Kummara Madhusudana Rao, Sung Soo Park and Chang-Sik Ha\*. (2017) [Snap-top nanocontainer for selective recovery of nickel ions from seawater](#). Microporous and Mesoporous Materials, 238, 27-35. (Impact factor = 5.455)
- (14) Aneesh Mathew and [Surendran Parambadath](#)\*. [Thiophene based Schiff's base functionalized mesoporous silica for the selective separation of Mercury ions from water](#). (2017) New Numbers and Letters-An Interdisciplinary Research Journal. 8, 1, 5-10.
- (15) N. Sivagangi Reddy, K.S.V. Krishna Rao, K. Madhusudana Rao, [Surendran Parambadath](#) and Chang-Sik Ha\*. (2016) [Aminothiozoyl maleamic acid based multi chelating hydrogels for the separation of uranium \(VI\) ions from aqueous environment](#). Polym. Adv. Technol. 27, 10, 1317-1324. (Impact factor = 2.578)
- (16) Aneesh Mathew, [Surendran Parambadath](#), Su Yeon Kim, Hyung Min Ha, Chang-Sik Ha\*. (2016) [Diffusion mediated selective adsorption of Zn<sup>2+</sup> from artificial seawater by MCM-41](#). Microporous and Mesoporous Materials, 229, 124-133. (Impact factor = 5.455)
- (17) Sang Hyun Lee, Sung Soo Park, [Surendran Parambadath](#) and Chang-Sik Ha\*. (2016) [Sulphonic acid functionalized periodic mesoporous organosilica with the bridged bisilylated urea groups for high selective adsorption of cobalt ion from artificial seawater](#). Microporous and Mesoporous Materials, 226, 179-190. (Impact factor = 5.455)
- (18) Aneesh Mathew, [Surendran Parambadath](#), Mary Jenisha Barnabas, Hyun Jin Song, Jae-Sung Kim, Sung Soo Park and Chang-Sik Ha\*. (2016) [Rhodamine 6G assisted adsorption of metanil yellow over succinamic acid functionalized MCM-41](#). Dyes and Pigments, 131, 177-185. (Impact factor = 4.889)
- (19) [Surendran Parambadath](#), Aneesh Mathew, Mary Jenisha Barnabas, Kummara Madhusudana Rao, and Chang-Sik Ha\*. (2016) [Periodic mesoporous organosilica \(PMO\) containing bridged succinamic acid groups as a nanocarrier for sulfamerazine, sulfadiazine and famotidine: Adsorption and release study](#). Microporous and Mesoporous Materials, 225, 174-184. (Impact factor = 5.455)
- (20) [Surendran Parambadath](#), Aneesh Mathew, Mary Jenisha Barnabas, Su Yeon Kim, and Chang-Sik Ha\*. (2016) [Concentration dependent selective removal of Cr\(III\), Pb\(II\) and Zn\(II\) from aqueous mixtures using 5-methyl-2-thiophenecarboxaldehyde Schiff base immobilized SBA-15](#). Journal of Sol-Gel Science and Technology, 79:426–439. (Impact factor = 1.986)
- (21) Mary Jenisha, [Surendran Parambadath](#), Aneesh Mathew, and Chang-Sik Ha\*. (2016) [Highly efficient and selective adsorption of In<sup>3+</sup> on pristine Zn/Al layered double hydroxide \(Zn/Al-LDH\) from aqueous solutions](#). Journal of Solid-State Chemistry, 233, 133-142. (Impact factor = 3.498)
- (22) [Surendran Parambadath](#), Aneesh Mathew, Sung Soo Park and Chang-Sik Ha\*. (2015) [Pentane-1,2-dicarboxylic acid functionalized spherical MCM-41: A simple and highly selective heterogeneous ligand for the adsorption of Fe<sup>3+</sup> from aqueous solutions](#). Journal of Environmental Chemical Engineering, 3, 1918-1927. (Impact Factor = 5.909)
- (23) [Surendran Parambadath](#), Aneesh Mathew, Mary Jenisha Barnabas, Chang-Sik Ha\*. (2015) [A pH-responsive drug delivery system based on ethylenediamine bridged periodic mesoporous organosilica](#). Microporous and Mesoporous Materials, 215, 67-75. (Impact factor = 5.455)

- (24) Aneesh Mathew, [Surendran Parambadath](#), Su Yeon Kim, Sung Soo Park, Chang-Sik Ha\*. (2015) [Adsorption of Cr\(III\) ions using 2-\(ureylenemethyl\)pyridine functionalized MCM-41](#). Journal of Porous Materials, 22, 3, 831-842. (Impact factor = 2.183)
- (25) Hyun Jin Song, [Surendran Parambadath](#), Su Yeon Kim, Sung Soo Park, and Chang-Sik Ha\*. [Highly selective adsorption of Li<sup>+</sup> ions from wastewater sulfonic acid modified 2,6-\(diureylene\) pyridine bridged periodic mesoporous organosilica](#). (2015) Advanced Porous Materials. 3, 1-11.
- (26) Aneesh Mathew, [Surendran Parambadath](#), Sung Soo Park and Chang-Sik Ha\*. (2014) [Hydrophobically modified spherical MCM-41 as nanovalve system for controlled drug delivery](#). Microporous and Mesoporous Materials, 200, 124-131. (Impact factor = 5.455)
- (27) Vijay Kumar Rana, M. Selvaraj, [Surendran Parambadath](#), Sang-Wook Chu, Sung Soo Park, Satyendra Mishra, Raj Pal Singh, Chang-Sik Ha\*. (2012) [Heterocyclic tri-urea isocyanurate bridged groups modified periodic mesoporous organosilica synthesized for Fe\(III\) adsorption](#). Journal of Solid State Chemistry, 194, 392-399. (Impact factor = 3.498)
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- (29) [Surendran Parambadath](#), Vijay Kumar Rana, Dongyuan Zhao, Chang-Sik Ha\*. (2011) [N,N'-diureylenepiperazine-bridged periodic mesoporous organosilica for controlled drug delivery](#). Microporous and Mesoporous Materials, 141, 1-3, 94-101. (Impact factor = 5.455)
- (30) [Surendran Parambadath](#), Vijay Kumar Rana, Santha Moorthy, Sang-Wook Chu, Shin-Kyu Park, Daewoo Lee, Giju Sung, Chang-Sik Ha\*. (2011) [Periodic mesoporous organosilicas with co-existence of diurea and sulfanilamide as an effective drug delivery carrier](#). Journal of Solid State Chemistry, 184, 5, 1208-1215. (Impact factor = 3.498)
- (31) [Surendran Parambadath](#), A. P. Singh\*. (2009) [Ru\(II\)-Chiral \(1R,2S\)-\(+\)-cis-1-amino-2-indanol immobilized over SBA-15 for asymmetric transfer hydrogenation reaction of prochiral ketones](#). Catalysis Today. 141, 161-167. (Impact factor = 6.766)
- (32) [Surendran Parambadath](#), M. Chidambaram, A. P. Singh\*. (2004) [Synthesis, characterization and catalytic properties of benzyl sulphonic acid functionalized Zr-TMS catalysts](#). Catalysis Today. 97, 233. (Impact factor = 6.766)
- (33) S. Shylesh, [Surendran Parambadath](#) and A. P. Singh\*. [Designing isolated vanadium sites over mesoporous MCM-41: Characterization and catalytic applications](#). (2005) Bulletin of Catalysis Society of India. 4, 45.

### Manuscript Under Preparation

- 2-Aminobenzaldehyde Schiff Base Modified Mesoporous Silica for Selective Adsorption of Metal Ions from Aqueous Sources. Abin Geevarughese, Aneesh Mathew and S. Parambadath\*. 2021.
- 2-Pyridinecarboxaldehyde Schiff Base Modified Mesoporous Silica for Selective Adsorption of Metal Ions from Aqueous Sources. Gokul P. B, Aneesh Mathew and S. Parambadath\*. 2021.
- Adsorption of Potassium Dichromate by Oxalic Acid Modified Biochar Derived from Water Hyacinth (Eichhornia Crassipes) Root. Beena Mol Babu, Aneesh mathew and S. Parambadath\*. 2021. Manuscript Under Preparation.
- 2-nitroaniline Schiff Base Immobilized on MCM-41 for Selective Metal Adsorption from Wastewater. Abhijith Kumar, Aneesh Mathew and S. Parambadath\*. 2021. Manuscript Under Preparation

### Academic Profile:-----

<b>Doctor of Philosophy (Ph.D) in Chemistry</b>	2009
National Chemical Laboratory (NCL, Pune, Maharashtra. India. Under University of Pune.	
<b>Master of Technology (M.Tech) in Industrial Catalysis</b>	2002
Department of Applied Chemistry, Cochin University of Science and Technology, Cochin, India.	
<b>Master of Philosophy (M.Phil) in Chemistry</b>	2000

Department of Chemistry, University Campus, University of Calicut, Thenchhipalam India.

**Master of Science (M.Sc) in General Chemistry**

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Department of Chemistry, University Campus, University of Calicut, Thenchhipalam India.

**Postdoctoral Research Experience: (3 Years and 7 Months):** -----

**July 2009-July 2010:** Post-doctoral Research Fellow, Nano-Information Materials lab,

Department of Polymer Science and Engineering, Pusan National University, Busan, South Korea.

**July 2013-Feb 2016:** Post-doctoral Research Fellow, Nano-Information Materials lab,

Department of Polymer Science and Engineering, Pusan National University, Busan, South Korea.

**Major:** Homogeneous and Heterogeneous catalysis, Synthesis of Nanomaterials, Mixed Oxides, Organic Precursors, Schiff Base Ligands and Complexes, Porous Silica Materials, Biochar Materials, Layered Double Hydroxide Materials, Antimicrobially Active Materials, Materials for Drug Delivery, Materials for Selective Adsorption of Metal ions, Desalination Technology, Materials for Environmental Remediation, Challenging reactions, and Fine chemical synthesis.

**References:** -----

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