Dr Mahaveer D Kurkuri

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Education

Ph.D.	Chemistry**,** Dept. of Chemistry, ***Karnatak University***, India (June 2003) Thesis: "*Development of New Polymeric Membranes for the Pervaporation Separation of Aqueous Organic Mixtures and Transport of Bioactive Molecules"*
M.Sc.	Polymer Science, ***University of Mysore***, Mysore, India (May 1998) Thesis: "*Preparation of polyurethane based IPNs". In-plant training at CIPET, India.*
B.Sc.	Physics, Chemistry and Mathematics, ***Karnatak University***, India (April 1996)
MBA	**Australian Institute of Business**, Australia (October 2017)

Research/Teaching Experience

Jain University, *India (March 2014 - till date)*

Associate Director: Center for Research in Functional Materials (CRFM) (Feb 2022-till date)

Completely responsible for running of the research center, right from recruitment to getting funds from external agency and delivering an output.

- *Current Team:* 2 Assistant Professor 1 PostDoc, 4 PhD and 3 Master's Students
- *Past Supervision:* 2 Assistant Professor, 5 PhD Students, 4 Engineering Students, 8 Master's Students, 3 Honors Students
- *Total Funds Attracted to the Institute:* ~Rs 4 Crores (India)

Professor: CNMS (Sept 2016 – Feb 2022)

Associate Professor: CNMS (March 2014 - Sept 2016)

Group leader for "Nano-Bio Interfaces and Supramolecular Chemistry" laboratory: Leading talented group with innovative research themes: right from ideation to proof of concept to commercialization, and also involved in MSc Chemistry teaching

Adjunct Visiting Researcher: ***University of Adelaide,*** *Australia (March 2014 – Dec 2017)*

Held 3-year position at School of Chemical Engineering.

Research Staff, ***University of Adelaide*** *and* ***University of South Australia****, Australia (June 2008 – March 2014)*

As a deputy group leader, I have handled responsibilities ranging from leading major projects, proposal writing, supervising students, procuring major equipments, custom designing equipment, planning and administration.

Worked on chemical free diatomite-based formulations for stored grains protection, Biosensors (SPR, LRSPR), thin coatings, surface chemistry, nano bio interfaces, cancer cells (CTCs). Actively involved in the Ian Wark NanoBiomaterials Honours program through teaching and student supervision.

Research Associate, ***Flinders University****, Australia (Mar 2006 - Feb 2008)*

Developed multifunctional and switchable bio surfaces for high throughput microarray bioassays. Performed covalent grafting of biopolymers at nanoscale followed by subsequent immobilization of biomolecules. Involved in undergraduate teaching in Nanotechnology course.

BK21 Post-Doctoral Fellow, ***KAIST,*** *South Korea (April 2004 - Feb 2006)*

Worked on the synthesis and characterization of various polymeric materials and investigated their applications as Electro Active Polymers (EAPs).

Graduate Engineer Trainee, ***Central Institute of Plastics Engineering and Technology (CIPET),*** *Govt. of India, India (Aug 2003-March 2004)*

Tested various plastic materials as per ISO, ASTM, and UL standard for industry partners. Drafted technical reports and acted as a contact person for the industries. Supervised students and handled teaching/training assignments for students'/industry personnel.

Research Scholar, Dept. of Chemistry, ***Karnatak University,*** *India*

Engaged in extensive research on the synthesis and characterization of polymeric materials

- May 1999 - April 2001; ***Technical Assistant, AICTE-TAPTEC*** *Project (Govt. of India), Karnatak University, India:* Synthesized organic compounds and polymers.
- Jan 2003 - June 2003; ***Guest Lecturer,*** *Karnatak University, India:* Taught "Characterization Techniques" to Masters Students (MSc).

Guest Lecturer, Department of Chemistry, ***M. M. Arts & Science College****, Sirsi, India*

Handled Chemistry theory and practical classes for Graduate Students (BSc).

Competitive Grants Received

Funding Agency	Title	Year	Funds
VGST, India	MOF based high surface area materials for electrochemical sensing of water borne toxins, batter and super capacitor applications.	2023	Rs 15 Lakhs
DST, India	Design and fabrication of low-cost analytical devices for rapid detection of hazardous ions in potable water	2021	Rs 27 Lakhs
DST, India	Immunological capturing of circulating tumour cells (CTCs) by novel lab on chip microfluidic devices	2019	Rs 25 Lakhs
DST, India	Applications of emerging materials in Water, Energy and Health	2015	Rs 290 Lakhs
DST, India	Design and fabrication of disposable devices for Quantitative detection of fluoride in field studies	2015	Rs 25.9 Lakhs
DST, India	Design and fabrication of reusable devices for the removal of copper, mercury and lead ions from water (Part of Proposal and Execution)	2015	Rs 18.5 Lakhs
Jain University, India	Fabrication of Novel Lab-on-a-chip type of Devices for Chromatographic Separation of Drugs and other Molecules	2014	Rs 6 Lakhs
		Total	**Rs 392 Lakhs**
CAN, University of Adelaide, Australia	Porous materials for the transport of bioactive molecules	2012	AUD 10,000
University of South Australia	Carrier development fund	2009	AUD 1,500
AINSE, Australia	Characterization of smart surfaces	2007	AUD 10,000
		Total	**AUD 21,500**

Awards/Fellowships/Achievements

- **VGST**: Award for best publications 2018: Rs 25,000/-
- **ARCNN Young Nanotechnology Ambassador** for South Australia Award 2009, (2,000 AUD)
- **Jain University:** Award for the research project sanctioned (2015)
- **Best Poster Presentation:** International Conference on "Advanced Materials for Technological Applications" PSGR Krishnammal College for Women, Coimbatore, 3rd-5th Jan, 2018.
- **Best Poster Presentation:** International Conference on "Advanced Ceramic and nanomaterials for sustainable development" ACeND, CHRIST University: 19th-21st Sept 2018
- **Best Poster Presentation:** Recent Advances in Material Science and its Applications (RAMSA-2016), SET, Jain University, Bangalore (September 24th 2016)
- **Best Poster Presentation:** National conference JNANA CHILUME-2017, Jain University
- Brain Korea 21 Post-Doctoral Fellowship, South Korea
- Co-investigator: **Grain Research Development Corporation** (GRDC) Project "Improved Functionality of Stored Grain Products"
- University Grants Commission's fellowship during doctoral research

Editorial

- ***Asia-Pacific J of Chemical Engineering*:** Associate Editor (2023-till date) (Wiley)
- ***Heliyon*:** Advisory Board Member for Chemistry (2023-till date) (Cell Press)
- ***Energies:*** Guest Editor (MDPI), Special Issue
- ***J Nanomaterials* (Special Issue of *Advances in Nanoporous Materials*):** Guest Editor (2016)
- ***Current Research in Nanotechnology*:** Editorial Board Member (2016-till date) (Science Publishing Group)

Invited Talks

- ADVANCEMENTS IN POLYMERIC MATERIALS (CIPET-APM-2023), "Stride towards Innovations in Materials & Design": invited talk (17 – 19 March, 2023)
- RNS INSTITUTE OF TECHNOLOGY, CENTRE OF EXCELLENCE IN MATERIAL SCIENCE AND DEVICES (CoE -MS&D): Invited talk (23-24 Feb 2024)
- Dayand Sagar College of Engineering: Faculty Development Programme on "Materials Characterizations and Hands on Training on Material Simulation Software" 28-02-2024
- INTI International University: Research Fellow (June 2023 to December 2025)
- Department of Chemistry, JSS Academy of Technical Education, Noida, India: Nano and Bio interfaces with Improved Functionality'10th June 2022.
- Department of Environment and Energy Engineering, Chonnam National University, 77 Yongbong-ro, Buk-gu, Gwangju 61186, Republic of Korea: 10th -19th April 2018.
- SSN College of Engineering, Chennai: "Nano and bio interfaces with improved functionality", 6th Dec 2018.
- Dayannd Sagar College of Engineering, Bangalore: "Nano and bio interfaces with improved functionality" 19th-25th June 2018
- NITTE University, Karnataka: "Nanotechnology: A Multidisciplinary approach to research", 4th December 2015.
- Sri Krishnadevaraya University, Anantapur-515003, Andhra Pradesh, India: "National Seminar on Advances in Polymeric Materials (NSAPM-2016)", 5th to 6th February 2016.
- Jain University, Chemistry Department, SGC, JC Road, Bangalore, India.
- 7th Bangalore India Nano: Invited talk (Dec 4-6, 2014)
- Energies-Guest Editor

Membership

- BoS (Board of Studies): (2017-till date) SJCE, Mysore, India for BTech, MTech programs
- DAC (Doctoral Advisory Committee): (2016) JSS University, Mysore, India
- DAC (Doctoral Advisory Committee): (2016) Manipal Institute of Technology (MIT), Manipal, India
- BoE (Board of Examiners): (2015-2018) Jain University, India for MSc Chemistry program
- RASC (Research Advisory Sub-Committee) for Nanomaterials: (27th October 2017) SASTRA University, TN, India

Administration

- Feb 2022-till date: Crafting a strategy in establishing a new research centre (CRFM, JAIN University) in Associate Director capacity through hiring scientists across the globe, seeking funding from external agencies, training human power, exploring early stage research concepts etc.
- Aug 2017-Feb 2018: In charge of the Research Centre (CNMS) as a deputy, was responsible for the complete day to day operations
- NAAC Visit, Nov 2017: Responsible to interact with the committee and presented/defended the progress of the research centre
- UGC Visit Dec 2019: Responsible to interact with the committee and presented/defended the progress of the research centre
- Responsible to frame the rules and regulations of the Centre for research activities, PhD program, Faculty appraisal etc
- Developed current MSc program of the Research Centre

Publications

Summary:

Publications	: 113	Patents	: 2
Books	: 1	Conferences	: < 41
Book Chapters	: 7		

Google Scholar: https://scholar.google.com.au/citations?user=U2bk9_sAAAAJ&hl=en

1. Sriram, G., Thangarasu, S., Selvakumar, K., Kurkuri, M., Dhineshbabu, N.R. and Oh, T.H., 2024. Effective removal of Rose Bengal using Ni-Co-Zn layered triple hydroxide: Studies on batch adsorption, mechanism, selectivity, co-ions, and reusability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 685, 133199. https://doi.org/10.1016/j.colsurfa.2024.133199 (Journal Impact Factor: **5.2**)

2. Kashif, M., Thangarasu, S., Murugan, N., Magdum, S.S., Kim, Y.A., Kurkuri, M. and Oh, T.H., 2024. Interatomic interaction of 2D crumpled V2O5 nanosheets layered with Ni-MOF as a bifunctional electrocatalyst for overall water splitting and supercapacitor applications. *Journal of Energy Storage*,2024, 81,110348. https://doi.org/10.1016/j.est.2023.110348 (Journal Impact Factor: **9.4**)

3. Mulimani, P., Bhat, M.P., Patil, P., Aralekallu, S., Kapavarapu, R., Yu, J., Kurkuri, M. and Kalkhambkar, R.G., 2024. Colorimetric devices for naked-eye detection of Fe3+ and Cu2+: Optical properties, DFT calculations, and molecular docking studies. *Journal of Water Process Engineering*, 2024, 59,105030. https://doi.org/10.1016/j.jwpe.2024.105030

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4. Hegde, V., Uthappa, U.T., Mane, P., Ji, S.M., Suneetha, M., Wang, B., Altalhi, T., Subrahmanya, T.M. and Kurkuri, M.D., 2024. Design of low-cost natural casein biopolymer-based adsorbent for efficient adsorption of multiple anionic dyes and diclofenac sodium from aqueous solutions. *Chemosphere*, 2024,141571.
https://doi.org/10.1016/j.chemosphere.2024.141571
(Journal Impact Factor:**8.8**)

5. Raizaday, A., Nagesha, D.K., Kurkuri, M. and Hegde, U., 2024. Tailored release of fluorescence quenched drug from the electrospun nanofiber mat for the treatment of oral submucosal fibrosis (OSMF). *Journal of Drug Delivery Science and Technology*, 2024, 92, 105283.
https://doi.org/10.1016/j.jddst.2023.105283
(Journal Impact Factor: **5**)

6. Raj, A., Rego, R.M., Ajeya, K.V., Jung, H.Y. and **Kurkuri, M.D**., 'Basil seeds loaded with MOFs as an eco-friendly and sustainable adsorbent for efficient removal of hazardous organic pollutants from water'. *Separation and Purification Technology*, 2023, 330, 125370.
https://doi.org/10.1016/j.seppur.2023.125370
(Journal Impact Factor: **8.6**)

7. Nadar, N.R., Rego, R.M., Kumar, G.D., Rao, H.J., Pai, R.K. and **Kurkuri, M.D**. 'Demystifying the influence of design parameters of nature-inspired materials for supercapacitors. *Journal of Energy Storage*, 2023,72,108670.
https://doi.org/10.1016/j.est.2023.108670
(Journal Impact Factor: **9.4**)

8. Rego, R.M., Ajeya, K.V., Jung, H.Y., Kabiri, S., Jafarian, M., **Kurkuri, M.D**. and Kigga, M. 'Nanoarchitectonics of Bimetallic MOF@ Lab-Grade Flexible Filter Papers: An Approach Towards Real-Time Water Decontamination and Circular Economy'. *Small*, 2023, 2302692.
https://doi.org/10.1002/smll.202302692
(Journal Impact Factor: **13.3**)

9. Akhilesh Bendre, Vinayak Hegde, Kanalli V Ajeya, Subrahmanya Thagare Manjunatha, Derangula Somasekhara, Varalakshmi K Nadumane, Krishna Kant, Ho-Young Jung, Wei-Song Hung, **Mahaveer D Kurkuri**, 'Microfluidic-Assisted Synthesis of Metal—Organic Framework—Alginate Micro-Particles for Sustained Drug Delivery, *Biosensors*,2023,13 (7), 737.
https://doi.org/10.3390/bios13070737
(Journal Impact Factor: **5.4**)

10. Gururaj M Neelgund, Erica A Jimenez, Ram L Ray, **Mahaveer D Kurkuri**, 'Facilitated Adsorption of Mercury (II) and Chromium (VI) Ions over Functionalized Carbon Nanotubes, *Toxics*,2023,11 (6), 545.
https://doi.org/10.3390/toxics11060545
(Journal Impact Factor: **4.6**)

11. Ganesan Sriram, **Mahaveer Kurkuri**, Tae Hwan Oh, 'Recent Trends in Highly Porous Structured Carbon Electrodes for Supercapacitor Applications: A Review' *Energies*, 2023, 16 (12), 4641.
https://doi.org/10.3390/en16124641

(Journal Impact Factor: **3.2**)

12. Padmaja V Mane, Pravin Patil, Anusha A Mahishi, Madhuprasad Kigga, Mahesh P Bhat, Kyeong-Hwan Lee, **Mahaveer Kurkuri**, 'Rhodamine 6G derivative for the selective copper detection and remediation using nanoporous diatomaceous earth-engineered functional receptor' *Heliyon*, 2023, 9 (6), e16600.
https://doi.org/10.1016/j.heliyon.2023.e16600
(Journal Impact Factor: **4**)

13. Dimple Pathania, Ankita Araballi, Fiona Fernandes, Jyothi Mannekote Shivanna, Ganesan Sriram, **Mahaveer Kurkuri**, Gurumurthy Hegde, Tejraj M. Aminabhavi, "Cost effective porous areca nut carbon nanospheres for adsorptive removal of dyes and their binary mixtures" *Environmental Research,* (2023), Volume 224, 115521.
https://doi.org/10.1016/j.envres.2023.115521
(Journal Impact Factor: **8.4**)

14. B.S. Nishchith, Yogesh Kalegowda, S. Ashoka, L. Shreenivasa, Ganesan Sriram, **Mahaveer D. Kurkuri**, Kanalli Vinayak Ajeya, Ho-YoungJung 'Electrochemical kinetic study and performance evaluation of surface-modified mesoporous sodium carbonophosphates nanostructures for pseudocapacitor applications' *Journal of Alloys and Compounds*, 2023, 939, 168711.
https://doi.org/10.1016/j.jallcom.2023.168711
(Journal Impact Factor: **6.371**)

15. Vinayak Hegde, U.T. Uthappa, Maduru Suneetha, Tariq Altalhi, Sung Soo Han, **Mahaveer D. Kurkuri**, 'Functional porous Ce-UiO-66 MOF@Keratin composites for the efficient adsorption of trypan blue dye from wastewater: A step towards practical implementations' *Chemical Engineering Journal*, (2023), 461, 142103.
https://doi.org/10.1016/j.cej.2023.142103
(Journal Impact Factor: **16.7**)

16. K Vishal, Kanakaraj Aruchamy, Ganesan Sriram, Yern Chee Ching, Tae Hwan Oh, Gurumurthy Hegde, Kanalli V Ajeya, Siddharth Joshi, A Ve Sowriraajan, Ho-Young Jung, **Mahaveer Kurkuri** 'Engineering a low-cost diatomite with Zn-Mg-Al Layered triple hydroxide (LTH) adsorbents for the effectual removal of Congo red: Studies on batch adsorption, mechanism, high selectivity, and desorption' *Colloids and Surfaces A: Physicochemical and Engineering Aspects,* 2023, 661, 130922.
https://doi.org/10.1016/j.colsurfa.2023.130922
(Journal Impact Factor: **5.518**)

17. Shrinath Bhat, U.T. Uthappa, T. Sadhasivam, Tariq Altalhi, Sung Soo Han, **Mahaveer D. Kurkuri**, 'Abundant cilantro derived high surface area activated carbon (AC) for superior adsorption performances of cationic/anionic dyes and supercapacitor application' *Chemical Engineering Journal*, (2023), 459, 141577.
https://doi.org/10.1016/j.cej.2023.141577
(Journal Impact Factor: **16.7**)

18. Harshith Govindappa, Gholamreza Abdi, UT Uthappa, Ganesan Sriram, Sung Soo Han, **Mahaveer Kurkuri** 'Efficient separation of arsenic species of oxyanion As (III) and As (V) by using effective polymer inclusion membranes (PIM)' *Chemosphere*, 2023, , 137851.
https://doi.org/10.1016/j.chemosphere.2023.137851
(Journal Impact Factor: **8.943**)

19. Arvind Raj, Richelle M Rego, Kanalli V Ajeya, Ho-Young Jung, Tariq Altalhi, Gururaj M Neelgund, Madhuprasad Kigga, **Mahaveer D Kurkuri**, 'Underwater oleophobic-super hydrophilic strontium-MOF for efficient oil/water separation', *Chemical Engineering Journal*, (2023), 453, Part 2, 139757.
https://doi.org/10.1016/j.cej.2022.139757
(Journal Impact Factor: **16.7**)

20. Gowthami Palanisamy, Sadhasivam Thangarasu, Ranjith Kumar Dharman, Chandrashekar S. Patil, Thakur Prithvi Pal Singh Negi, **Mahaveer D. Kurkuri**, Ranjith Krishna Pai, Tae Hwan Oh, "The growth of biopolymers and natural earthen sources as membrane/separator materials for microbial fuel cells: A comprehensive review", *Journal of Energy Chemistry*, (2023), Volume 80, 402-431.
https://doi.org/10.1016/j.jechem.2023.01.018
(Journal Impact Factor: **13.6**)

21. TM Subrahmanya, Januar Widakdo, Hannah Faye M Austria, Wei-Song Hung, **Mahaveer D Kurkuri**, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai, 'Flow-through in-situ evaporation membrane enabled self-heated membrane distillation for efficient desalination of hypersaline water', *Chemical Engineering Journal*, 2023, 452, Part 2, 139170.
https://doi.org/10.1016/j.cej.2022.139170
(Journal Impact Factor: **16.7**)

22. Sriram, G., Dhanabalan, K., Ajeya, K.V., Aruchamy, K., Ching, Y.C., Oh, T.H., Jung, H.Y. and **Kurkuri, M**., 2023. Recent progress in anion exchange membranes (AEMs) in water electrolysis: synthesis, physio-chemical analysis, properties, and applications. *Journal of Materials Chemistry A*. 2023, 11, 20886-21008.
https://doi.org/10.1039/D3TA04298G
(Journal Impact Factor: **11.9**)

23. Anusha A Mahishi, Sachin M Shet, Padmaja V Mane, Jingxian Yu, A Ve Sowriraajan, Madhuprasad Kigga, Mahesh P Bhat, Kyeong-Hwan Lee, **Mahaveer D Kurkuri**, 'Ratiometric colorimetric detection of fluoride ions using a schiff base sensor: enhancing selectivity and sensitivity for naked-eye analysis' *Analytical Methods*, 2023, 15 (26), 3259-3267
https://doi.org/10.1039/D3AY00541K
(Journal Impact Factor: **3.1**)

24. BS Nishchith, Yogesh Kalegowda, S Ashoka, Ganesan Sriram, **Mahaveer D Kurkuri**, Manjunatha Channegowda, 'Two-step synthesis of a-NiCu (OH) 2 CO 3/Na 3 NiCuCO 3 PO 4: A battery-type electrode for pseudocapacitor applications' *New Journal of Chemistry*, 2023, 47 (9), 4386-4401.
https://doi.org/10.1039/D2NJ04762D
(Journal Impact Factor: **3.3**)

25. Athinarayanan Balasankar, Sathya Elango Arthiya, Subramaniyan Ramasundaram, Paramasivam Sumathi, Selvaraj Arokiyaraj, Taehwan Oh, Kanakaraj Aruchamy, Ganesan Sriram and **Mahaveer D. Kurkuri** 'Recent Advances in the Preparation and Performance of Porous Titanium-Based Anode Materials for Sodium-Ion Batteries', *Energies* 2022, 15, 9495.
https://doi.org/10.3390/en15249495
(Journal Impact Factor: **3.23**)

26. Gururaj M Neelgund, Sanjuana F Aguilar, **Mahaveer D Kurkuri**, Debora F Rodrigues, Ram L Ray, 'Elevated Adsorption of Lead and Arsenic over Silver Nanoparticles Deposited on Poly (amidoamine) Grafted Carbon Nanotubes', *Nanomaterials* (2022), 12(21), 3852.
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(Journal Impact Factor: **5.7**)

27. UT Uthappa, Shrinath Bhat, Sung Soo Han, Heon-Ho Jeong, Tariq Altalhi, Ho-Young Jung, **Mahaveer D Kurkuri**, Tailoring of 2D MoS2 microspheres on 3D low-cost DE for the efficient removal of hazardous cationic dyes, *Advanced Powder Technology*, (2022), 33 (11), 103800.
https://doi.org/10.1016/j.apt.2022.103800
(Journal Impact Factor: **4.969**)

28. Vinayak Hegde, UT Uthappa, Tariq Altalhi, Ho-Young Jung, Sung Soo Han, **Mahaveer D Kurkuri**, Alginate based polymeric systems for drug delivery, antibacterial/microbial, and wound dressing applications, *Materials Today Communications*, (2022), 33, 104813.
https://doi.org/10.1016/j.mtcomm.2022.104813
(Journal Impact Factor: **3.7**)

29. Dimple Pathania, Vinay S Bhat, Jyothi Mannekote Shivanna, Ganesan Sriram, **Mahaveer Kurkuri**, Gurumurthy Hegde, Garlic peel based mesoporous carbon nanospheres for an effective removal of malachite green dye from aqueous solutions: Detailed isotherms and kinetics, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,* (2022), 276, 121197.
https://doi.org/10.1016/j.saa.2022.121197
(Journal Impact Factor: **4.831**)

30. Vinayak Hegde, UT Uthappa, Sung Soo Han, Ho-Young Jung, Tariq Altalhi, **Mahaveer D Kurkuri**, Sustainable green functional nano aluminium fumarate-MOF decorated on 3D low-cost natural diatoms for the removal of Congo red dye and fabric whitening agent from wastewater: Batch & continuous adsorption process, *Materials Today Communications*, (2022), 32, 103887.
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(Journal Impact Factor: **3.662**)

31. Harshith Govindappa, Mahesh P Bhat, UT Uthappa, Ganesan Sriram, Tariq Altalhi, S Prasanna Kumar, **Mahaveer Kurkuri**, Fabrication of a novel polymer inclusion membrane from recycled polyvinyl chloride for the real-time extraction of arsenic (V) from water samples in a continuous process, *Chemical Engineering Research and Design*, (2022), 182, 145-156.
https://doi.org/10.1016/j.cherd.2022.03.052
(Journal Impact Factor: **4.119**)

32. Parimal Pandit, Pranita Rananaware, Aviva D'Souza, **Mahaveer D Kurkuri**, Varsha Brahmkhatri, Functionalized diatom biosilica decorated with nanoparticles: synthesis, characterization, catalytic oxidation, and dye scavenging applications, *Journal of Porous Materials*, (2022), 29, 1369-1383.
https://doi.org/10.1007/s10934-022-01262-w
(Journal Impact Factor: **2.523**)

33. Richelle M Rego, **Mahaveer D Kurkuri**, Madhuprasad Kigga, A comprehensive review on water remediation using UiO-66 MOFs and their derivatives, *Chemosphere* (2022), 302, 134845.
https://doi.org/10.1016/j.chemosphere.2022.134845

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34. Mahesh Padmalaya Bhat, Venkatachalam Thendral, Uluvangada Thammaiah Uthappa, Kyeong-Hwan Lee, Madhuprasad Kigga, Tariq Altalhi, **Mahaveer D Kurkuri**, Krishna Kant, Recent Advances in Microfluidic Platform for Physical and Immunological Detection and Capture of Circulating Tumor Cells, *Biosensors* (2022), 12(4), 220.
https://doi.org/10.3390/bios12040220
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35. Akhilesh Bendre, Mahesh P Bhat, Kyeong-Hwan Lee, Tariq Altalhi, Mohammed Ayad Alruqi, **Mahaveer Kurkuri**, Recent developments in microfluidic technology for synthesis and toxicity-efficiency studies of biomedical nanomaterials, *Materials Today Advances*, (2022), 13, 100205.
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36. BS Nishchith, S Ashoka, Mahesh P Bhat, **Mahaveer D Kurkuri**, Shashidhara Acharya, Rajendra Kumar, Yogesh Kalegowda, Reversible surface reconstruction of Na3NiCO3PO4: A battery type electrode for pseudocapacitor applications, *Journal of Power Sources*, (2022) 520, 230903.
https://doi.org/10.1016/j.jpowsour.2021.230903
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37. Chandrashekhar S Patil, Datta B Gunjal, Vaibhav M Naik, Ravindra D Waghmare, Tukaram D Dongale, **Mahaveer D Kurkuri**, Govind B Kolekar, Anil H Gore, Sustainable conversion of waste tea biomass into versatile activated carbon: application in quick, continuous, and pressure filtration of miscellaneous pollutants, *Biomass Conversion and Biorefinery*, (2022) Online
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39. Ganesan Sriram, Akhilesh Bendre, Eniya Mariappan, Tariq Altalhi, Madhuprasad Kigga, Yern Chee Ching, Ho-Young Jung, Bhaskar Bhaduri, **Mahaveer Kurkuri**, Recent trends in the application of metal-organic frameworks (MOFs) for the removal of toxic dyes and their removal mechanism-a review, *Sustainable Materials and Technologies*, 31, 2022, e00378.
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(Journal Impact Factor: **10.681**)

40. Uluvangada T Uthappa, Dusan Losic, **Mahaveer D Kurkuri**, Graphene-Based Nanomembranes for Sustainable Water Purification Applications, Book Chapter: Environmental Applications of Carbon Nanomaterials-Based Devices, Wiley Publisher, 2021
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cartridges (EWFC) for decontamination of water: An innovative waste management approach, *Environmental Technology & Innovation,* 24, 2021, 102047.
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(Journal Impact Factor: **7.758**)

42. Shrinath Bhat, UT Uthappa, Tariq Altalhi, Ho-Young Jung, **Mahaveer D Kurkuri**, Functionalized Porous Hydroxyapatite Scaffolds for Tissue Engineering Applications: A Focused Review, *ACS Biomater. Sci. Eng*. 2022, 8, 10, 4039-4076.
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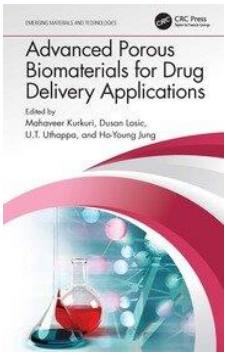
1. 

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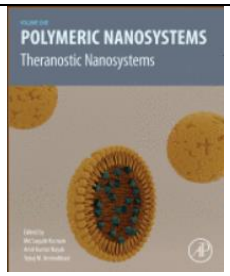
1. 

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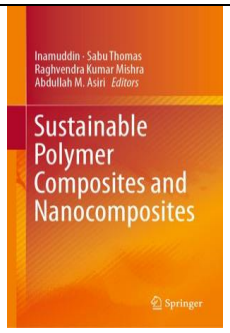
2. 

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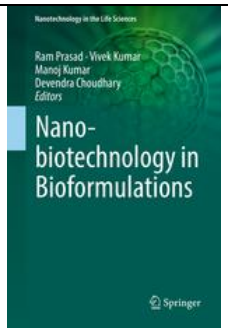
3. 

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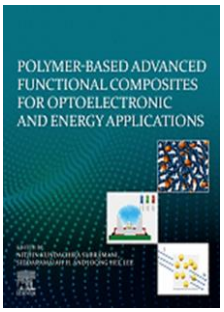
4. 

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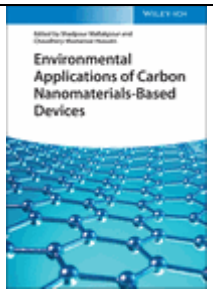
6. 

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