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Associate Professor

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PROFESSIONAL EXPERIENCE

- Apr. 2021 – till** : Associate Professor, CNMS, Jain University, Bangalore, India
- 2018- 2022** : Visiting Scientist, National Institute of Science and Technology, Moscow, Russia
- Dec. 2013 – Apr. 2021** : Assistant Professor, CNMS, Jain University, Bangalore, India
- Jun. 2013 – May 2014** : Postdoctoral Fellow, University Teknologi Malaysia, Johar Bharu, Malaysia.
- Aug. 2012 – May 2013** : Postdoctoral Fellow, CNMS, Jain University, Bangalore, India
- Dec. 2008 – Jul. 2012** : JRF and SRF, National Institute of Technology, Surathkal, Karnataka
- Aug. 2007 – Dec. 2008** : Research officer, Mega Fine Pharma, Nashik, India, R & D OFFICER.

RESEARCH INTERESTS

- Synthesis of polymer, composites and blends for membrane separation
- Reverse Osmosis, Forward Osmosis, Spiral wound and hollow fiber membrane
- Degradation of dyes, adsorption of heavy metal ions, and treatment of oily waste water
- Water analysis and resolving the issues in water quality

RESEARCH GRANTS

1. Title: Preparation and characterization of graphene oxide induced thin film composite membrane for removal of emerging contaminants by forward osmosis system,
Funding Agency: Department of Science and Technology, Govt. of India (Fast Track Scheme),

- Amount Sanctioned: **Rs. 20.6 Lakhs**
2. Title: Development of new nanofiltration membranes for desalination and brackish water
Funding Agency: Ministry of water and sanitation, Govt. of India.
Duration: 2 years **(from Feb-2013)**
Amount Sanctioned: **Rs. 22, 45,000 INR**
 3. Title: Preparation of an antifouling membrane by wet chemical methods and its performance study for filtration applications
Funding Agency: Naval Research Board, Govt. of India
Duration: 2 years **(from July-2015)**
Amount Sanctioned: **Rs. 15, 41,000 INR**
 4. Title: Development of Nano composite membrane for water purification
Funding Agency: Nano mission, Department of Science and Technology, Govt. of India
Duration: 3 years **(from Sep-2015)**
Amount Sanctioned: **Rs. 4, 00, 00,000 INR**
 5. Title: Removal of Arsenic and Fluoride using membrane technology
Funding Agency: Vision group of Science and Technology, Govt. of Karnataka
Duration: 1 years **(from Jan-2018)**
Amount Sanctioned: **Rs. 5,00,000 INR**
 6. Title: Development of solid state supercapacitor
Funding Agency: MES, Department of Science and Technology, Govt. of India
Duration: 3 years **(2018)**
Amount Sanctioned: **Rs. 53,00,000 INR**
 7. Title: Hollowfiber based portable membrane reactor for liquid-liquid separation
Funding Agency: WTI, Department of Science and Technology, Govt. of India
Duration: 3 years **(2019)**
Amount Sanctioned: **Rs. 99,46,366 INR**

INDUSTRIAL PROJECTS

1. Title:Development of hollow-fiber membrane module for TDS removal,
Funding industry: **Vijetha water solutions**, Bangalore, Type: **Consultancy**,
Duration: 6 months,
Cost: 6,00,000
2. Title: Activate the water molecule for water:diesel emulsification
Funding industry: Consultancy with Hydrogel, Bangalore

- Duration: 3 months
Amount: 2,50,000
3. Title: Development of hollowfiber spinning machine.
Funding industry :Consultancy for Poorva tech Mumbai
Duration: 6 months
Amount: 20,000
 4. Title: Removal of reactive silica from ground water
Funding industry :Consultancy for Vijetha water solutions, Bangalore
Duration: 12 months
 5. Oil water separation without pressure
 6. Removal of fatty acids from palm oil (Samey dabye)
 7. Gas separation membranes (Petronus)

PATENTS

- Zinc doped aluminum nitrate nanoparticle composition for water purification and method for preparation thereof, INDIAN Patent filed JBR 1122
- BI-Functional product for use in Acid-Free reduction of Toxic chromium (VI) its synthesis and uses” Indian Patent No: 373150 Patent Application No: 201641036352 Filed on: 24-10-2016

INVITED TALKS

1. **SB Arts and KCP Science College Vijayapur** on Applications of spectroscopy in recent research
2. **Reva University Bangalore** on MembranTechnology for future
3. **Tumkur University Tumkur** on MembraTechnology for future
4. **NMIT Bangalore** on MembrTechnology for future
5. **Rural college Kanakapura** on water purification process and laws

EDITORIAL AND SCIENTIFIC REVIEWER

1. **Peer reviewer for** Desalination, Journal of applied polymer Science, Material chemistry, and physics
2. Editorial board member for the **International Journal of Applied Nanotechnology**
3. Guest Editor for **Journal Frontier in Chemistry**

AWARDS AND HONORS

1. Visiting research scholar to Membrane Research Center, Prince of Songhkla

- University Hatyai, Thailand, from Dec 2010 to June 2011.
2. **Visiting Scientist** to National institute of science and technology- Misis, Moscow, Russia.
 3. **Winner** of NUST MISiS international competition grant conducted by Russian Govt

RESEARCH SUPERVISION

1. Ph. D. awarded: 1) Dr. Vignesh Nayak. 2) Dr. Rajesh B J 3) Dr. Lavanya C. 4) Dr. Jyothi M.S.
2. Ph.D. Submitted: 1) Mr. Nagara Naik
3. Ph. D. Students: 1) Mr. Prajwal S 2) Mrs. Aisha Siddiqui 3) Mrs. Swathi Diwakar 4) Mr. Abhishek K. 5) Mrs. Usha Nellur 6) Ms. Vani A.
4. Master Students: 14 Students

TOPICS TAUGHT

- M.Sc. For 1st, 2nd and 3rd semester of Organic chemistry from 2014 to till
- PhD Course work (10 hrs) every year from 2017 to till
- Practical experiment Set up for Organic chemistry M.Sc.
- Question bank preparation for Organic chemistry M.Sc.
- Academic committee member from 2014-2018.

LIST OF PUBLICATIONS (Last 5 years)

1. **Chemosphere, 2022, 287, 132085,**
<https://www.sciencedirect.com/science/article/pii/S0045653521025571>
2. **Journal of Energy Storage, 2022, 50, 104698**
<https://www.sciencedirect.com/science/article/pii/S2352152X22007113>
3. **Environmental Science: Water Research and Technology 2022, 8(5), pp. 1059–1077**
<https://pubs.rsc.org/en/content/articlelanding/2022/ew/d1ew00936b>
4. **International Journal of Environmental Science and Technology 2022**
<https://link.springer.com/article/10.1007/s13762-022-04562-5>
5. **Environmental Science: Water Research and Technology 2022, 8, 2381-2397**
<https://pubs.rsc.org/en/content/articlelanding/2022/ew/d2ew00400c>

6. **Journal of Coordination Chemistry 2022, 75(9-10), pp. 1159–1168**
<https://www.tandfonline.com/doi/full/10.1080/00958972.2022.2109150>
7. **Chemosphere 2022, 306, 135528**
<https://www.sciencedirect.com/science/article/pii/S0045653522020215>
8. **Environmental Science: Water Research and Technology, 2021, 7(12), pp. 2166–2205**
<https://doi.org/10.1039/D1EW00393C>
9. **Journal of Water Process Engineering, 2021, 41, 102026**
<https://www.sciencedirect.com/science/article/pii/S2214714421001136>
10. **Chemosphere, 2021, 275, 130024**
<https://www.sciencedirect.com/science/article/pii/S0045653521004938>
11. **Chemical Engineering Journal, 2021, 418, 129372**
<https://www.sciencedirect.com/science/article/pii/S1385894721009608>
12. **Journal of Environmental Chemical Engineering, 2021, 9(6), 106328**
<https://www.sciencedirect.com/science/article/pii/S2213343721013051>
13. **Journal of Environmental Chemical Engineering 8, 103664, 2020**
(<https://www.sciencedirect.com/science/article/pii/S2213343720300129>)
14. **Journal of Alloys and Compounds 832, 153986, 2020**
(<https://www.sciencedirect.com/science/article/pii/S0925838820303492>)
15. **Energy and Fuels, 2020, 34(9), pp. 11699–11707**
<https://pubs.acs.org/doi/10.1021/acs.energyfuels.0c02030>
16. **Chemical Engineering Journal, 2020, 401, 126148**
<https://www.sciencedirect.com/science/article/pii/S1385894720322762>
17. **Chemistry select, 4, 1989-1993, 2019**
(<https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/slct.201804006>)
18. **Journal of Hazardous Materials, 369, 1–8, 2019.**
(<https://www.sciencedirect.com/science/article/pii/S0304389419301402>)
19. **Journal of Environmental Management, 232, 372–381, 2019**
(<https://www.sciencedirect.com/science/article/pii/S0301479718313586>)
20. **Environmental Process & Sustainable Engineering, DOI 10.1002/ep.13167.**
21. **Journal of applied polymer Science 136, 48254, 2019**
(<https://onlinelibrary.wiley.com/doi/10.1002/app.48254>)
22. **Journal of water process engineering 30, 100419, 2019**
(<https://www.sciencedirect.com/science/article/pii/S2214714417300995>)

23. **Journal of water process engineering** 32, 100959, 2019
(<https://www.sciencedirect.com/science/article/pii/S2214714419306749>)
24. **Journal of water process engineering** 32, 100926, 2019
(<https://www.sciencedirect.com/science/article/pii/S2214714419303277>)
25. **Journal of Polymers and the Environment** 27, 2408 2019
(<https://link.springer.com/article/10.1007/s10924-019-01531-x>)
26. **International journal of hydrogen energy**, 43, 12146-12152, 2018.
(<https://www.sciencedirect.com/science/article/pii/S0360319918313752>)
27. **Chemical Engineering Journal** 348, 678–684, 2018.
(<https://www.sciencedirect.com/science/article/pii/S1385894718308064>)
28. **Chemical Engineering Journal** 334, 2392–2400, 2018.
(<https://www.sciencedirect.com/science/article/pii/S1385894717321393>)
- 2017**
29. **Chemical Engineering Journal** 308, 347-358, 2017.
(<https://www.sciencedirect.com/science/article/pii/S1385894716313407>)
30. **Journal of Hazardous Materials**, 332, 112-123, 2017.
(<https://www.sciencedirect.com/science/article/pii/S0304389417301644>)
31. **Journal of Hazardous Materials**, 331, 289-299, 2017.
(<https://www.sciencedirect.com/science/article/pii/S0304389417301346>)
32. **J. Photochemistry Photobiology A: Chemistry**, 339, 89-94, 2017.
(<https://www.sciencedirect.com/science/article/pii/S1010603016310826>)
33. **Journal of Membrane Science**, 533, 229–240, 2017.
(<https://www.sciencedirect.com/science/article/pii/S0376738817300236>)
- 2016**
34. **Chemical Engineering Journal**, 283, 1494-1505, 2016.
(<https://www.sciencedirect.com/science/article/pii/S1385894715011997>)
35. **RSC Advances**, 6, 25492-25502, 2016. (<https://doi.org/10.1039/C6RA02590K>)
36. **Membrane Water Treatment**, 7, 6, 2016.
(<http://www.techno-press.org/content/?page=article&journal=mwt&volume=7&num=6&ordernum=3>)
- 2015**
37. **Desalination**, 362, 141-150, 2015
(<https://www.sciencedirect.com/science/article/pii/S001191641500017X>)
38. **Chemistry Open**, 4, 278-287, 2015.
(<https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/open.201402133>)
39. **Desalination**. 356, 140-148, 2015.
(<https://www.sciencedirect.com/science/article/pii/S0011916414005761>)

40. **Desalination**, 357, 197-207, 2015.

(<https://www.sciencedirect.com/science/article/pii/S0011916414006262>)

2014

41. **Desalination**, 354, 189-199, 2014.

(<https://www.sciencedirect.com/science/article/pii/S001191641400530X>)

42. **Journal of Material Research** 29, 1537-1545, 2014.

(<https://doi.org/10.1557/jmr.2014.169>)

43. **Separation & Purification Technology**, 132, 187-194, 2014.

(<https://www.sciencedirect.com/science/article/pii/S1383586614003062>)

44. **Chemical Engineering Journal** 246, 306-310, 2014.

(<https://www.sciencedirect.com/science/article/pii/S138589471400240X>)

45. **Journal of Polymer Research** 21 (11), 1-12, 2014.

(<https://link.springer.com/article/10.1007/s10965-014-0594-1>)

2013

46. **Journal of Membrane Science**, 2013, 428, 489-497.

(<https://www.sciencedirect.com/science/article/pii/S0376738812008058>)

47. **Arabian Journal of Chemistry**, 6, 319-326, 2013.

(<https://www.sciencedirect.com/science/article/pii/S1878535210001978>)

48. **Arabian Journal of Chemistry**, 6, 319-326, 2013.

(<https://www.sciencedirect.com/science/article/pii/S1878535211001456>)

2012

49. **Desalination**, 298, 42-48, 2012.

(<https://www.sciencedirect.com/science/article/pii/S0011916412002469>)

50. **Desalination**, 295, 35-42, 2012.

(<https://www.sciencedirect.com/science/article/pii/S0011916412001701>)

51. **Desalination**, 287, 103-108, 2012.

(<https://www.sciencedirect.com/science/article/pii/S0011916411008423>)

52. **Membrane Water Treatment**, 3, 25-34, 2012.

(<http://www.techno-press.org/content/?page=article&journal=mwt&volume=3&num=1&ordernum=2>)

53. **Medicinal Chemistry Research** 21 (7), 1090-1097, 2012.

(<https://link.springer.com/article/10.1007/s00044-011-9607-3>)

2011

54. **Industrial Engineering Chemistry Research**, (ACS). 2011, 50, 6528-6534, 2011.

55. **Desalination**, 274, 177–181, 2011.
(<https://www.sciencedirect.com/science/article/pii/S0011916411001330>)
56. **Desalination**, 279, 409-414, 2011.
(<https://www.sciencedirect.com/science/article/pii/S001191641100573X>)
57. **Desalination**. 280, 419–423, 2011.
(<https://www.sciencedirect.com/science/article/pii/S0011916411005595>)
58. **Desalination**, 265, 153-158, 2011.
(<https://www.sciencedirect.com/science/article/pii/S0011916410005448>)
- 2010**
59. **Material Science forum**, 657, 26-34, 2010.
(<https://www.scientific.net/msf.657.26>)
60. **Synthetic Metals**, 160, 819-824, 2010.
(<https://www.sciencedirect.com/science/article/pii/S0379677909006481>)

CITATION AND PUBLICATION METRICS

Articles published : 81
ISI and SCOPUS indexed articles : 81
Sum of the times cited : 2766
h-index & *i*-10 index : 25 & 44
Cumulative impact factor: 309
Google Scholar :

<https://scholar.google.co.in/citations?user=A7DDgcYAAAAJ&hl=en>