

Personal Profile



1. **Name** : Dr. Pravin Patil
2. **Address** : T. D. B. Quarters,
Indira Nagar, Chikodi,
591201, Belagavi, Karnataka, India
3. **PAN** : CDLPP9471L
4. **AADHAR** : 5327 7963 9132
5. **Department** : P. G. Department of Chemistry
6. **Email** : patilsunil882@gmail.com
7. **Education** : **Doctor of Philosophy in Nanotechnology (2019)**
Centre for Nano and Material Sciences, JAIN (Deemed-To-Be University, Bangalore, Karnataka, India.
Thesis Title: “Development of Diatoms Based Functional Surfaces for water Purification”
Research Supervisor: Prof. Mahaveer Kurkuri
From: August 2014 to August 2019
Degree Awarded: August 2019

Master of Science in Nanotechnology,
Department of Atomic and Molecular Physics
Manipal Academy of Higher Education (MAHE), Manipal, Karnataka, India.
From: June 2012 to June 2014

Bachelor of Science (Physics, Chemistry and Mathematics)
KLE’s B. K. College, Chikkodi, Belagavi, Karnataka, India.
From: June 2009 to June 2012

8. Awards and Prizes	:	Won Best Presentation Award in SPIE photonics Europe Conference held in Brussels, Belgium in April 2014.
9. Qualifying examination (Applicable only for NET/SLET)	:	-NIL-
10. Teaching experience	:	-NIL-
11. Administrative experience, if any	:	-NIL-
12. Academic Placements	:	-NIL-
13. Specialisation	:	Nanotechnology, Supramolecular Chemistry, and Microfluidics
14. Membership of professional bodies	:	-NIL-
15. Upgradation courses	:	-NIL-
16. Soft skill/Life skill development Programs	:	-NIL-
17. Technical training	:	-NIL-
18. Paper publication	:	

1. **Pravin Patil**, Madhuprasad, Tushar Kumeria, Dusan Losic and Mahaveer Kurkuri, "Isolation of Circulating tumour cells by physical means in microfluidic devices: A review", **RSC Advances**, 2015, 5, 89745-89762. **Impact Factor: 3.070**
2. Mahesh P. Bhat, Madhuprasad, **Pravin Patil**, S. K. Nataraj, Tariq Al-Talhi, Ho-Young Jung, Dusan Losic and Mahaveer Kurkuri "Turmeric, naturally available colorimetric receptor for quantitative detection of fluoride and iron", **Chemical Engineering Journal**, 303, 2016, 14-21. **Impact Factor: 16.652**
3. Ganesan Sriram, **Pravin Patil**, Mahesh P. Bhat, Raveendra M Hegde, Kanalli V. Ajeya, Iranna Udachyan, Bhavya M. B, Manasa G. Gatti, Uluvangada T. Uthappa, Gururaj M. Neelgund, Ho-Young Jung, Tariq Altalhi, Madhuprasad and Mahaveer Kurkuri, "Current Trends in Nanoporous Anodized Alumina Platforms for Biosensing Applications", **Journal of Nanomaterials**, 2016, 2016, 1- 24. **Impact Factor: 1.980**
4. Ganeshan Sriram, Mahesh P. Bhat, **Pravin Patil**, Uluvangada T. Uthappa, Ho-Young Jung, Tariq Al-Talhi, Tushar Kumeria, Tejraj M. Aminabhavi, Ranjith Krishna Pai, Madhuprasad and Mahaveer Kurkuri, "Paper based microfluidic

analytical devices for colorimetric detection of toxic ions: A review”, **Trends in Analytical Chemistry**, 93, 2017, 212-227. **Impact Factor: 9.801**

5. **Pravin Patil**, Madhuprasad, Mahesh P. Bhat, Manasa G. Gatti, Shervin Kabiri, Tariq Al- Talhi, Ho-Young Jung, Dusan Losic and Mahaveer Kurkuri, “Chemodosimeter functionalized diatomaceous earth particles for the naked eye detection and removal of trace mercury ions”, **Chemical Engineering Journal**, 327, 2017, 725-733. **Impact Factor: 16.652**
6. **Pravin Patil**, Kanalli V. Ajeya, Mahesh P. Bhat, Ganesan Sriram, Jingxian Yu, Ho-Young Jung, Tariq Altalhi, Madhuprasad Kigga and Mahaveer Kurkuri, “Real-Time Probe for the Efficient Sensing of Inorganic Fluoride and Copper Ions in Aqueous Media”, **ChemistrySelect**, 3, 2018, 11593-11600. **Impact Factor: 1.811**
7. Mahesh P. Bhat, Madhuprasad Kigga, Harshith G., **Pravin Patil**, Ho-Young Jung, Jingxian Yu, and Mahaveer Kurkuri, “Reversible fluoride chemosensor for the development of multi input molecular logic gates” (Accepted: **New Journal of Chemistry**; DOI: 10.1039/C9NJ03399H). **Impact Factor: 3.288**
8. **Pravin Patil**, Madhuprasad and Mahaveer Kurkuri, “Novel process for the removal of mercury ions from water using organic probe tethered diatoms”, **Indian Patent**, Published on 03 May 2018, Publication Number: **WO2018/078641**.

19. Paper Presentation :

1. **Pravin Patil**, Hema Singh and Shaibal Banerjee, Paper presentation on “Synthesis and Characterization of Fe₃O₄-Cysteine-Naphthoquinone Complex for Biomedical Applications” in SPIE Photonics Europe, Brussels, Belgium, April 14-17, 2014.
2. **Pravin Patil**, Mahesh P. Bhat, Madhuprasad and Mahaveer Kurkuri, Poster Presentation: “Turmeric, naturally available colorimetric receptor for quantitative detection of fluoride and iron” in 8th Bangalore Nano, Bangalore, India, March 3-5, 2016
3. **Pravin Patil**, Madhuprasad, Mahesh P Bhat, Manasa G, K. V. Ajeya, Ravindra Hegde and Mahaveer Kurkuri, Oral Presentation on, “Rhodamine derivative for the selective detection of Hg²⁺ ions from water” in ICRACACE-2016 (International Congress on Recent Advances in Chemistry and Chemical Engineering) organized by Dept. of Chemistry, Jawaharlal Nehru Technological University, Hyderabad (11-13th July 2016)
4. **Pravin Patil**, Madhuprasad and Mahaveer D. Kurkuri, Paper presentation on “Chemodosimeter functionalized diatomaceous earth particles for naked eye detection and removal of trace mercury ions” in International symposium on new trends in analytical chemistry (NTAC) organized by Dept. of Chemistry, Sacred Heart College, Thavera, Kochi, Kerala (9-11th February 2017)
5. **Pravin Patil**, Madhuprasad and Mahaveer Kurkuri, Poster Presentation on. “An efficient naked eye detection of inorganic fluoride and copper ions in water using novel rhodamine derivative” in International conference on Green

Methods for Separation, Purification and Nanomaterial Synthesis (GMSP&NS 2018) organized by CNMS, JAIN (Deemed-to-be University) Bangalore, India during 24th and 25th April 2018.

20. Research Guidance	:	-NIL-
21. Other Publications	:	-NIL-
22. Book Publication	:	-NIL-
23. Resource Person	:	-NIL-
24. Organising conferences/ seminar/workshops	:	-NIL-
25. Editorial Activity	:	Royal Society of Chemistry (Reviewer)
26. Consultancy	:	-NIL-
27. Curriculum Design	:	-NIL-
28. Evaluation Process	:	-NIL-
29. Committee membership	:	-NIL-
30. Conference participation	:	

1. Attended KSTA sponsored National Seminar on Frontiers in Materials and Chemical Sciences held at CNMS, JAIN (Deemed-to-be University) during 30th and 31st August 2018.
 2. Attended International Conference on Frontiers in Materials from Basic Science to Real-Time Applications (F2DM-2019) held at CNMS JAIN (Deemed-To-Be University), Bengaluru, India during March 13-16, 2019.
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I, **Dr. Pravin Patil**, currently working as a lecturer in P. G. Department of Chemistry, KLE's P.C. Jabin Science College, Hubballi. In near future, I would like to grow as an individual and will be focusing on educating students for their bright future. Furthermore, I would like to understand and implement the ideas in rapidly growing field of chemistry, nanotechnology and various interdisciplinary areas where I can apply my strong experimental and technical skills with the help of good collaboration.

(Dr. Pravin Patil)

Head of the Department

Principal