

Curriculum Vitae

Dr. Samadhan Prakash Pawar

Assistant Professor

Rajarshi Chhatrapati Shahu College, Kolhapur

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Correspondence Address

Department of Chemistry,

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Dist. Kolhapur (416 003), MS, India

Permanent Address

At Post Wakadi, Tal. Paranda,

Dist. Osmanabad (413502), MS, India

Personal Information/Details

Nationality	Indian	Blood Group	O-ve
Gender	Male	Birth Date	25 th January 1987
Marital Status	Married		

Languages Known Marathi, Hindi, English, (Write, Read, Speak)

EDUCATION

July 2010 - Dec. 2013	Doctor of Philosophy (Ph.D.), Chemistry (17 th June 2017) Department of Chemistry, Shivaji University, Kolhapur, MS, India Ph.D. Thesis: Photophysical Studies of semiconducting nanomaterials and their analytical applications (Advisor: Prof. Govind B. Kolekar)
June 2005 - April 2007	Master of Science (M.Sc.), Analytical Chemistry (May 2010, 68.83%) Department of Analytical Chemistry, Shivaji University, Kolhapur, MS, India
June 2002 - April 2005	Bachelor of Science (B.Sc.), Chemistry (May 2007, 75.24%) Solapur University, Solapur

RECOGNITIONS & AWARDS/ACHIEVEMENTS

December, 2010	UGC-CSIR NET-JRF , New Delhi
Life Member	Indian Society for Radiation and Photochemical Sciences, BARC, Mumbai.

TEACHING EXPERIENCE: 11 YEARS

June 2011 – Till date	Assistant Professor (Analytical Chemistry) Rajarshi Chhatrapati Shahu College, Kolhapur Dist. Kolhapur, MS, India
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RESEARCH EXPERIENCE

- July 2010- June2017 **Research Scholar**
Department of Chemistry, Shivaji University, Kolhapur
Development of nanomaterial (Quantum dot/MNPs) based new fluorescent and colorimetric probes (optical) for analytical applications using spectrophotometry and spectrofluorimetry as an analytical tool.
- June 2017 – Till Date **Rajarshi Chhatrapati Shahu College, Kolhapur**
Dist. Kolhapur (416 003), MS, India
Synthesis of Carbon based nanomaterials, Adsorption, Environmental Remediation, Chromatography

RESEARCH SCHOLARS: **WORKING 4 PH.D. SCHOLARS**

INSTRUMENTS HANDLED & SKILLS

Good Practice in Handling of Instruments:

- Spectrofluorometer (Jasco, FP-750, FP-8300)
- UV-Visible Spectrophotometer (Shimadzu)

Detailed Knowledge & Skills:

- Chromatographic techniques: HPLC, GC, GC-MS, IC, HPLC-MS, HP-TLC
- Spectroscopic methods: UV, IR, MASS, NMR
- Instrumental & Classical analysis
- Electrospinning

Chemistry Software & Computer Skills:

Chem. Sketch, ISS draw, Sci-finder, MS-Office (Word, Excel and Power point), Origin

RESEARCH PUBLICATIONS

1. Fabrication of Ternary Polyvinyl alcohol/Tetraethyl Orthosilicate/Silicotungstic Acid Hybrid Membranes for Pervaporation Dehydration of Alcohol.
Mukund Mali, Laxman Walekar, Dattakumar Mhamane, Gopal Mali, **Samadhan Pawar**, Vaishali Patil, Harichandra Parbat, Gavisiddappa Gokavi
Colloids and Surfaces A: Physicochemical and Engineering Aspects, 652 (2022) 129741 (IF – 5.518)
2. Sawmill waste derived carbon dots as a fluorescent probe for synthetic dyes in soft drinks.
Datta B Gunjal, Laxman S Walekar, **Samadhan P Pawar**, Prashant V Anbhule, Mukund G Mali, Vinayak P Dhulap, Daewon Sohn, Prasad G Mahajan, Ki Hwan Lee, Rajendra V Shejwal, Govind B Kolekar
Scientific reports, 11 (2021) 17996 (IF – 4.379)
3. Quantum dots based “On-Off” fluorescence probe for the selective detection of Cu²⁺ ion: Application to real sample analysis.
Samadhan P. Pawar, Anil H. Gore, Laxman S. Walekar, Vaibhav M. Naik, Prashant V. Anbhule, Daewon Sohn, Govind B. Kolekar
Chemical Data Collections, 24 (2019) 100300 (IF – 1.2)

4. Photophysical insights of highly transparent, flexible and re-emissive PVA@ WTR-CDs composite thin films: A next generation food packaging material for UV blocking applications.
Akshay S. Patil, Ravindra D. Waghmare, **Samadhan P. Pawar**, Suresh T. Salunkhe, Govind B. Kolekar, Daewon Sohn, Anil H. Gore
Journal of Photochemistry and Photobiology A: Chemistry, 400 (2020) 112647 (IF – 5.141)
5. Turn-on fluorescence probe for selective and sensitive detection of D-penicillamine by CdS quantum dots in aqueous media: Application to pharmaceutical formulation.
Samadhan P. Pawar, Anil H. Gore, Laxman S. Walekar, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar
Sensors and Actuators B: Chemical, 209 (2015) 911-918 (IF – 9.221)
6. Quantum dots-based dual fluorescent probe for recognition of mercuric ion and N-acetylcysteine: “On-Off-On” approach.
Samadhan P. Pawar, Laxman S. Walekar, Uttam R. Kondekar, Dattatray B. Gunjal, Anil H. Gore, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar*
Analytical Methods, 8 (2016) 6512-6519 (IF – 3.532)
7. Fluorescence based sensor for selective and sensitive detection of amoxicillin (Amox) in aqueous medium: Application to pharmaceutical and biomedical analysis.
Samadhan P. Pawar, Laxman S. Walekar, Dattatray K. Dalavi, Dattatray B. Gunjal, Anil H. Gore, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar
Luminescence: The Journal of Biological and Chemical Luminescence, 32 (2017) 1-6 (IF – 2.464)
8. CdS nanocrystals as fluorescent probe for detection of dolasetron mesylate in aqueous solution: Application to biomedical analysis.
Samadhan P. Pawar, Laxman S. Walekar, Uttam R. Kondekar, Dattatray B. Gunjal, Anil H. Gore, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar
Journal of Pharmaceutical Analysis, 6 (2016) 410-416 (IF – 14.026)
9. Carbon dots as a dual sensor for the selective determination of d-penicillamine and biological applications.
Datta B. Gunjal, Anil H. Gore, Vaibhav M. Naik, **Samadhan P. Pawar**, Prashant V. Anbhule, Rajendra V. Shejwal, Govind B. Koleka
Optical Materials, 88 (2019) 134-142 (IF – 3.754)
10. Quick and low cost synthesis of sulphur doped carbon dots by simple acidic carbonization of sucrose for the detection of Fe³⁺ ions in highly acidic environment.
Vaibhav Naik, Dattatray Gunjal, Anil Gore, **Samadhan Pawar**, Sunanda Mahanwar, Prashant Anbhule, Govind Kolekar
Diamond and Related Materials 88, (2018) 262-268 (IF – 3.806)
11. Functionalized fluorescent nanomaterials for sensing pollutants in the environment: A critical review.
Laxman Walekar, Tanushree Dutta, Pawan Kumar, Yong Sik Ok, **Samadhan Pawar**, Akash Deep, Ki-Hyun Kim
Trends in Analytical Chemistry, 97 (2017) 458-467 (IF – 14.908)

12. Ultrasensitive, highly selective and naked eye colorimetric recognition of D-penicillamine (D-PA) in aqueous media by CTAB capped AgNPs: applications to pharmaceutical and biomedical analysis.
Laxman S. Walekar, Uttam R. Kondekar, Anil H. Gore, **Samadhan P. Pawar**, V. Sudarsan, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar
RSC Advances, 4 (2014) 58481-58488 (IF - 4.036)
13. Spectroscopic investigation of interaction between carbon quantum dots and D-Penicillamine capped gold nanoparticles.
Laxman S. Walekar, **Samadhan P. Pawar**, Uttam R. Kondekar, Dattatray B. Gunjal, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar
Journal of Fluorescence, 25 (2015) 1085-1093 (IF - 2.525)
14. Surfactant Stabilized AgNPs as a colorimetric probe for simple and selective detection of hypochlorite anion (ClO⁻) in aqueous solution: environmental sample analysis.
Laxman S. Walekar, Vishwas D. Suryawanshi, Santosh S. Undare, **Samadhan P. Pawar**, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar
Colloids and Surfaces A: Physicochem. Eng. Aspects, 491 (2016) 78-85 (IF - 5.518)
15. Synthesis of nickel sulphide as promising electrode material for pseudocapacitor application.
Paresh Gaikar, **Samadhan P. Pawar**, Rajaram S. Mane, Dipak V. Shinde
RSC Advances, 6 (2016) 112589-112593 (IF - 4.036)
16. Electrochemical Properties of Anodized Copper Hydroxide Nanostructures.
Vijaykumar V. Jadhav, Dipak V. Shinde, Supriya A. Patil, Manohar K. Zate, **Samadhan Pawar**, Ahmed AL-Osta, Rajaram S. Mane, K. N. Hui *, K. S. Hui, Sung-Hwan Han
Journal of Nanoengineering and Nanomanufacturing, 4 (2014) 168-172

GOOGLE SCHOLAR PROFILE

https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=iTxXisYAAAAJ



Dr. Samadhan P. Pawar

Rajarshi Chh. Shahu College, Kolhapur Aff. to Shivaji University,
Kolhapur, MS, India

Fluorescence Sensors
Carbon based nanomaterials (CDs)
Semiconductor QDs
Ag and Au NPs

	All	Since 2017
Citations	317	294
h-index	11	10
i10-index	11	10
	6 articles	3 articles
	not available	available

PAPERS PRESENTED IN CONFERENCES/SEMINARS/WORKSHOPS

- ✓ Paper presented (Poster) in International Conference on Advances in Sciences and Technology (ICAST-2022 International), RCS College, Kolhapur, 9th and 10th March 2022.
- ✓ Paper presented (Poster) in International Conference on Sustainable Development in Chemistry and Scientific Applications (SDCSA-2021 International), SGM College, Karad, Satara, 16th and 17th December 2021.

- ✓ Paper presented (Poster) in International DAE-BRNS 14th Biennial, Trombay Symposium on Radiation & Photochemistry (TSRP-2018, International), BARC, Mumbai, 3rd- 7th January, 2018.
- ✓ Paper presented (Poster) in National Conference o Current Research in Chemical Sciences (CRCS-2013, National) held at Shivaji University, Kolhapur, 22nd & 23rd January, 2013.
- ✓ Paper presented (Poster) in, National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials (RASCN-2012, National), Shivaji University, Kolhapur, 21st & 22nd January, 2012.
- ✓ Participated in National Seminar on Advances in Synthetic Methodologies and New Materials (ASMNM-2011, National), Shivaji University, Kolhapur, 21st & 22nd January, 2011.

REFERENCES

Prin. Prof. V. V. Killedar (M.Sc., Ph.D., DCA)
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I do hereby declare that the statement made in this application are true, complete & correct to the best of my knowledge and belief.

Date: 16/08/2022

Place: Kolhapur

Yours Faithfully,



(Dr. Pawar S. P.)