

Curriculum Vitae

Dr. PITCHAIMANI VEERAKUMAR

Assistant Professor

Department of Chemistry

Thiruvalluvar College, Tirunelveli 627 425 , INDIA.

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Research Interests

- ◆ Preparation of highly porous carbons materials derived from biomass
- ◆ Metal-free “graphitic carbon nitride” catalysts
- ◆ Developing green and sustainable carbon nanocatalysts
- ◆ Carbon nanocomposite for electrochemical sensors
- ◆ Green catalysis using biomass carbon/adsorption of toxic materials
- ◆ Fuel cell, hydrogen storage and high energy supercapacitors
- ◆ Development of photocatalyst and photodegradation

Professional Experience

Associate	01/12/2022	Saveetha Institute of Medical and Technical Sciences
Professor	To Present	(SIMTS), Chennai-600077, INDIA
Post-Doctoral	15/08/2016–	Prof./Dr. King-Chuen Lin
Researcher	14/08/2022	Department of Chemistry National Taiwan University, Taipei-10617, TAIWAN
Post-Doctoral	24/10/2012–	Prof./Dr. Shang-Bin Liu
Researcher	31/07/2016	Institute of Atomic and Molecular Sciences (IAMS), Academia Sinica, Taipei-10617, TAIWAN
Assistant	10/08/2011–	Unnamalai Institute of Technology, Kovil Patti, Tamil
Professor	26/04/2012	Nadu, INDIA

Academic Qualifications

Ph. D	2012	Prof./Dr. Seenivasan Rajagopal
Chemistry		Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai-625021, INDIA

Title: [Synthesis and Characterization of Transition Metal Nanoparticles and Their Catalytic Studies](#)

M. Phil.,	2007	Prof./Dr. Seenivasan Rajagopal
Chemistry		Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai-625021, Tamil Nadu, INDIA

Title: [Synthesis and Photophysics of Some Osmium\(II\) Polypyridine Complexes](#)

M. Sc., Chemistry	2006	N. M. S. S. V. N College, Nagamalai, Madurai-625019, Affiliated to Madurai Kamaraj University, Madurai, Tamil Nadu, INDIA
B. Sc., Chemistry	2004	H. K. R. H College, Uthamapalayam, Theni-625533, Affiliated to Madurai Kamaraj University, Madurai, Tamil Nadu, INDIA
H. Sc., Science	2000	St. Aloysius Hr. Sec School, Royappanpatti-625526, Theni, Tamil Nadu, INDIA
S.S.L.C	1998	Z. K. M. Hr. Sec School, Bodinayakanur-625513, Theni, Tamil Nadu, INDIA

Awards and Achievements

1. Sci-Edu Award **2026**
2. Top 2% Scientist Award
3. AGAR-Educator Award **2023** (Excellence in Teaching)
4. AGAR-Research Excellence Award **2023** (Excellence in Research & Innovation)
5. Best Researcher Award-**2023**

Funded Project:

The project "Development of Palladium Sulfide on Heteroatom-Doped Tungstate for Efficient Photocatalyst for Large Production of Hydrogen from Water-Alcohol Mixtures" was funded by the **Tamil Nadu State Council for Science and Technology, Chennai-25**, under the Science and Technology scheme. The reference letter number is 16470(A)/TNSCST/STP/CS&CHE-03/MK/2025 with the project amount Rs. 3,00,000/- (Three lakhs only).

Guest Editor(s)

Journal Name	Topic Title
Frontiers in Chemistry	Development of Innovative Nanomaterials for Electrochemical Drug Sensing (https://www.frontiersin.org/research-topics/60930/development-of-innovative-nanomaterials-for-electrochemical-drug-sensing)
Catalysts (ISSN 2073-4344, IF 3.9)	Memorial Issue Dedicated to Prof. King-Chuen Lin: Palladium-Based Nanocomposites for Photocatalysts, Sensors, and Energy Storage (https://www.mdpi.com/journal/catalysts/special_issues/Nano_composites)
Catalysts (ISSN 2073-4344, IF 3.9)	Recent Developments in Nanostructured Palladium and Other Metal Supported on Carbon-Based Materials: Synthesis, Characterization, and Its Catalytic Activity for Reduction of Hexavalent Chromium (https://www.mdpi.com/journal/catalysts/special_issues/hexavalent_chromium)

International Journal of Analytical Chemistry

Synthesis and characterization of green synthesized carbonaceous nanomaterials and their environmental applications (<https://www.hindawi.com/journals/ijac/si/615808/>)

Invited Talk/Oral Presentation

14. Summer Training Internship Program (STIP) – 2025 & STIP–2025 Team, University of Madras Guindy Campus, Chennai –25 on May 29, **2025**.
13. International Conference on “THREE DAYS ONLINE INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS FOR ENERGY, ENVIRONMENTAL AND SENSOR APPLICATIONS (ICAMEESA–2024)” “Biomass derived Carbon composite Materials and Their Recent Application” which will be held on at MOTHER TERESA WOMEN’S UNIVERSITY KODAIKANAL, February, 27-28, **2024**.
12. International Conference on "Innovative Green Materials for Sustainable Engineering (IGMSE) "The Future Biomass Utilization and Applications” which will be held on at School of Engineering, Saveetha Institute of Medical and Technical Sciences (SIMATS), Thandalam, Chennai, February, 27-28, **2023**.
11. International Conference on Green Technologies for Sustainable Development (GTSD–2022), “**Biomass-Derived Carbons for Green Applications**” Organised by Department of Chemistry Presidency College, Tamil Nadu, India, December,15-16, **2022**.
10. International Conference On Research In Advanced Materials And Its Applications-ICRAMA 2022, “**Sustainable Nanomaterials for Electrochemical sensors, Nanocatalysis, and Energy Storage Applications**” organized by Idhaya college for women, Sarugani, Tamil Nadu, India, September 29-30, **2022**.
9. 5th International Conference on Recent Trends in Applied Science and Technology (ICRTAST-2021) “**Recent Advances in Biowaste-Derived Renewable Carbon for Sustainable Applications**” organized by Department of Physics, Chemistry and Life science, Manonmaniam Sundaranar University Tirunelveli 627012, Tamil Nadu, India, November 25-28, **2021**.
8. International webinar on Contemporary Tools for Sustainable Environmental Development & Emerging Diplomacy in Science-COTSEEDS-21, organized by Department of Chemistry & Physics, Velumanoharan Arts and Science College for Women, “**Waste to Value Added Products for Energy and Environmental Applications**” Ramanathapuram, India, Sep 29-30, **2021**.
7. International webinar, arranged by PG and Research Center of Chemistry, Jayaraj Annapackiam College for Women, **Porous Carbon-Based Nanocomposite for Energy Storage and Sensing**” Theni, India, June 11, **2020**.
6. International faculty development program title “**Novel Materials for Energy and Biomedical (Covid-19) Healthcare Applications**” held in M. Kumarasamy College of Engineering, Karur, Tamil Nadu, India, May 11-16, **2020**.

5. National Conference on Recent Trends in Chemistry (RTC), **Biomass-Derived Porous Carbons: A Versatile and Sustainable Nanomaterials for Practical Applications**” held in H.K.R.H College, Theni, Tamil Nadu, India, March 04, **2020**.
4. International Conference on “Emerging Trends in Materials for Energy and Biological applications (ICEMEBA–2020) **“Biomass-Derived Carbon Materials for Sustainable Applications”** held in M. Kumarasamy College of Engineering, Karur, Tamil Nadu, India, March 07, **2020**.
3. International Conference on Recent Advances in Materials Science (ICRAMS-2019) **“Natural-Precursor-Derived Carbon Nanomaterials for Sustainable Applications”** held in Trichy, Tamil Nadu, India, Feb 14-16, **2019**.
2. Global Research Efforts on Energy and Nanomaterials (GREEN 2018) **Natural-Precursor-Derived Carbon Nanomaterials: Catalysis, Sensors, and Supercapacitor”** held in Taipei Tech, Taiwan, Dec 21-24, **2018**.
1. International Symposium for Advanced Materials Research (ISAMR 2017)” **Biomass-derived Porous Carbon Nanomaterials: A Versatile and Sustainable Catalysts for Practical Applications”** held in Sun Moon Lake, Taiwan, August 18-21, **2017**.

Top Journals with 1st/and Corresponding Author

Coordination Chemical Reviews	IF: 23.5
Chinese Journal of Catalysis	IF: 17.7
Chemical Engineering Journal	IF: 13.1
Journal of Energy Storage	IF: 9.8
Journal of Colloids and Interface Sciences	IF: 9.7
Journal of Materials Chemistry A	IF: 9.1
ACS Applied Materials Interfaces	IF: 8.4
Sensors and Actuators B	IF: 8.4
ACS Sustainable Chemistry & Engineering	IF: 7.3
Journal of Water Processing Engineering	IF: 6.7
Materials Research Bulletin	IF: 5.7
Journal of Materials Chemistry C	IF: 5.1

Journal Publications

Total No. of Publications:	: 115
Book Chapters	: 9
Edited Book	: 1
Review Articles	: 16
Research Papers	: 95
Total No. of Citations	: 5547
<i>h</i> -index	: 48
<i>i10</i> -index	: 92
Scopus Author ID:	: 36912103200
Researcher ID	: B-5546-2014

Google Scholar:

<https://scholar.google.com/citations?user=Sq17fSoAAAAJ&hl=en>

Research gate: www.researchgate.net/profile/Pitchaimani_Veerakumar

ORCID: <https://orcid.org/0000-0002-6899-9856>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=36912103200>

Membership

Member, The American Chemical Society (ID 30889570)

Book Edited/Chapter Chapters/Editorial

10. P. Veerakumar and R. Ramkumar, Recent Advances in Activated Carbon Synthesis, Properties and Applications “*Production of Activated Carbon from Durian*”, by CRC Press **2024**, ISBN: 9781032772202 (First published: 2024-12-26).
9. R. Rasu. P. Veerakumar, T. Jeyapragasam, K. Dinakaran, M. Boominathan, A. G. Al-Sehemi Electrochemical synthesis: Nano, 2D, Ceramic and Pervoskite materials, “*Different Synthetic Strategies of Nanocomposite Based Electrode Materials for Green Energy Technology*” LAP LAMBERT Academic publishing ISBN: 9786206162841 (First published: 2023-12-13)
8. P. Veerakumar*, Sustainable Materials for Electrochemical Capacitors, “*Potential Applications in Sustainable Supercapacitors*” Scrivener Publishing LLC (Wiley), **2023**, pp 305-337. (First published: 28 August 2023)
<https://doi.org/10.1002/9781394167104.ch13> ISBN: 9781394166237
7. A. Pandikumar, P. Rameshkumar, and P. Veerakumar*, Biomass-Derived Carbon Materials Production and Applications, Edited Book John Wiley & Sons, **2022**, pp 309–342.
<https://onlinelibrary.wiley.com/doi/book/10.1002/9783527832903> ISBN: 352734926X, 978352734926 (First published: 30 November 2022)
6. P. Veerakumar*, S. Arumugam, K.-C. Lin, Nanoscale Graphitic Carbon Nitride “*Graphitic carbon nitride for photodegradation of dye molecules*” Elsevier, **2022**, pp 97–140.
<https://doi.org/10.1016/C2019-0-04468-8> ISBN: 9780128230343
5. P. Veerakumar*, S. Arumugam, K.-C. Lin, Nanoscale Graphitic Carbon Nitride “*Graphitic carbon nitride for supercapacitor*” Elsevier, **2022**, pp 301–340.
<https://doi.org/10.1016/C2019-0-04468-8> ISBN: 9780128230343
4. P. Veerakumar*, A. Sangili, S. Manavalan, K.-C. Lin, Metal Oxides in Nanocomposite-Based Electrochemical Sensors for Toxic Chemicals “*Metal oxide-carbon nanocomposite modified electrochemical sensors for toxic chemicals*” Elsevier, **2021**, pp 173–221.
<https://doi.org/10.1016/B978-0-12-820727-7.00010-0> ISBN: 9780128207277
3. P. Veerakumar*, and K.-C. Lin, Biomass-Based Energy Storage Materials “*Biomass derived composites for energy storage*” Materials Research Forum, **2020**, 78, pp 50–90.
<https://doi.org/10.21741/9781644900871-3> ISBN: 97816449008713 (release date August, 2020)
2. P. Veerakumar, N. Dhenadhyalan, K.-C. Lin, Theoretical Chemistry for Advanced Nanomaterials “*Computational and Experimental Analysis of Carbon Functional Nanomaterials*” Springer Nature Publications, **2020**, pp 269–311. ISBN: 9789811500053
https://doi.org/10.1007/978-981-15-0006-0_7

1. S. Somasundaram, **P. Veerakumar**, K.-C. Lin, V. Kumaravel, Photocatalytic Functional Materials for Environmental Remediation “*Application of Nano-composites for Photocatalytic Removal of Dye Contaminants*” Wiley Publications, **2019**, pp 131–162.
<https://doi.org/10.1002/9781119529941.ch4> ISBN: 9781119529941

Review Articles

18. Progresses, challenges, and future prospects of conducting polymer/ semiconductor metal oxide nanohybrids for multidimensional applications
P. Veerakumar*, S. Santhoshkumar, W.-L. Tseng, S. Jayaraman, E. Murugan, P. Thanasekaran
Next Materials **2026**, *13*, 103018
<https://doi.org/10.1016/j.nxmte.2026.103018> (Q1, IF: 4.7)
17. Synthesis and applications of binary palladium sulphide (Pd₄S) nanomaterials
C. Jayaraman, **P. Veerakumar***, S. Jayaraman, V.P. Veeraraghavan
Inorg. Chem. Commun. **2026**, *191*, 117035
<https://doi.org/10.1016/j.inoche.2026.117035> (Q1, IF: 4.7)
16. Neuroendocrine-associated epigenetic factors in cellular senescence: mechanisms and therapeutic implications
S. Jayaraman, A. Eswaran, P. Rajagopal, C.P. Palanisamy, **P. Veerakumar**, V.P. Veeraraghavan, S.R. Sirasanagandla
Biogerontology **2026**, *27*, 64
<https://doi.org/10.1007/s10522-026-10402-7> (Q1, IF: 4.1)
15. Recent trends and perspectives in rhenium-based nanomaterials for sustainable applications
P. Veerakumar*, R. Pandiyan, S.-M. Chen, P. Thanasekaran, K. Saranya
Coord. Chem. Rev. **2025**, *527*, 216382 (Q1, IF: 23.5)
<https://doi.org/10.1016/j.ccr.2024.216382>
14. Electrochemical energy storage applications of functionalized carbon-based nanomaterials: An overview
T.-W. Chen, S.-M. Chen, G. Anushya, R. Kannan, **P. Veerakumar**, A.G. Al-Sehemi, V. Mariyappan, S. Alargarsamy, M. M. Alam, T. C. Mahesh, R. Ramachandran, P. Kalimuthu
Inter. J. Electrochem. Sci. **2024**, *19*, 100548 (Q3, IF: 1.5)
<https://doi.org/10.1016/j.ijoes.2024.100548>
13. Metal-oxides-and metal-oxyhydroxides-based nanocomposites for water splitting: An overview
T.-W. Chen, S.-M. Chen, G. Anushya, R. Kannan, **P. Veerakumar***, M M. Alam, A. Saranvignesh, R. Ramachandran
Nanomaterials, **2023**, *13*, 2012 (Q1, IF: 4.4)
<https://doi.org/10.3390/nano13132012>
12. Heterogeneously functionalized electrode materials for energy conversion and storage processes
T.-W. Chen, R. Ramachandran, **P. Veerakumar***, S.-M. Chen, V.P. Veeraraghavan, V. Mariyappan, R. Kannan, and R. Paulsamy
J. Electrochem. Soc., **2023**, *170*, 054506 (Q1, IF: 3.1)
<https://iopscience.iop.org/article/10.1149/1945-7111/acce70>

11. Recent development and challenges in fuel cells and water electrolyzer reactions: an overview
R. Ramachandran, T.-W. Chen, [P. Veerakumar*](#), G. Anushya, S.-M. Chen, R. Kannan, V. Mariyappan, S. Chitra, N. Ponmurugraj and M. Boominathan
RSC Adv., **2022**, *12*, 28227–28244. (Q1, IF: 3.9)
<https://doi.org/10.1039/D2RA04853A>
10. Review of the design of ruthenium-based nanomaterials and their sensing applications in electrochemistry
[P. Veerakumar*](#), S.-T. Hung, P.-Q. Hung and K.-C. Lin
J. Agric. Food Chem., **2022**, *70*, 8523–8550. (Q1, IF: 5.7)
<https://doi.org/10.1021/acs.jafc.2c01856>
9. Copper supported silica-based nanocatalysts for CuAAC and cross-coupling reactions
[P. Veerakumar*](#), N. Velusamy, P. Thanasekaran, K.-C. Lin, S. Rajagopal
React. Chem. Eng., **2022**, *7*, 1891–1920 (Q1, IF: 3.4)
<https://doi.org/10.1039/D2RE00095D>
8. Review-recent advances in the development of porous carbon-based electrocatalysts for water-splitting reaction
T.-W. Chen, P. Kalimuthu, [P. Veerakumar*](#), S.-M. Chen, G. Anushya, T. Jeyapragasam, K.-C. Lin, V. Mariyappan, R. Ramachandran
J. Electrochem. Soc., **2022**, *169*, 054519. (Q1, IF: 3.1)
<https://doi.org/10.1149/1945-7111/ac6e91>
7. Recent development on carbon-based nanocomposites for hydrogen fuel cell: A review
T.-W. Chen, P. Kalimuthu, [P. Veerakumar*](#), K.-C. Lin, S.-M. Chen, R. Ramachandran, V. Mariyappan, S. Chitra
Molecules **2022**, *27*, 761. (Q1, IF: 4.2)
<https://doi.org/10.3390/molecules27030761>
6. An overview of palladium supported on carbon-based materials: Synthesis, characterization, and its catalytic activity for reduction of hexavalent chromium
[P. Veerakumar*](#) and K.-C. Lin
Chemosphere, **2020**, *153*, 126750. (Q1, IF: 8.1)
<https://doi.org/10.1016/j.chemosphere.2020.126750>
5. Research progress on porous carbon supported metal/metal oxide nanomaterials for supercapacitor electrode applications
[P. Veerakumar*](#), A. Sangili, S. Manavalan, and K.-C. Lin
Ind. Eng. Chem. Res., **2020**, *59*, 6347–6374. (Q1, IF: 3.8)
<https://doi.org/10.1021/acs.iecr.9b06010>
4. A metal-free carbon-based catalyst: An overview and directions for future research
[P. Veerakumar*](#), P. Thanasekaran, T. Subburaj, and K.-C. Lin
C- Journal of Carbon Research, **2018**, *4*, 54. (NA, IF: 3.9)
<https://www.mdpi.com/2311-5629/4/4/54>
3. Computational studies of versatile heterogeneous palladium-catalyzed Suzuki, Heck and Sonogashira coupling reactions
[P. Veerakumar*](#), P. Thanasekaran, K.-L. Liu, S.-B. Liu, and S. Rajagopal
ACS Sustainable Chem. Eng., **2017**, *5*, 8475–8490. (Q1, IF: 8.4)

- <https://doi.org/10.1021/acssuschemeng.7b00922>
2. Functionalized silica matrices and palladium: A versatile heterogeneous catalyst for Suzuki, Heck and Sonogashira reactions
P. Veerakumar*, P. Thanasekaran, K.-L. Liu, S.-B. Liu, and S. Rajagopal
ACS Sustainable. Chem. Eng., **2017**, 5, 6357–6376. (Q1, IF: 8.4)
<https://doi.org/10.1021/acssuschemeng.7b00921>
 1. Ruthenium nanocatalysis on redox reactions
P. Veerakumar, A. Ramdass, and S. Rajagopal
J. Nanosci. Nanotech., **2013**, 13, 4761–4786. (NA, IF: 1.354)
<https://doi.org/10.1166/jnn.2013.7568>

Research Articles

- 98 Ferruginol potentiates the inhibition of oral cancer cell proliferation by modulating the expression of Akt-1/mTOR-mediated signaling
P. Veerakumar, S. Jayaraman, V. Priya Veeraraghavan
Oral Maxillofac. Pathol. J. **2026**, 17, 84-92.
- 97 Engineering hierarchical (Ce/Co/Ni)CCN-LTH ternary hydroxide hybrids for next-generation supercapacitor electrode applications
M. Murugan, P. Sasikumar, L. Marasamy, P. Veerakumar, P. Sengodan, R. Perumal
Mater. Sci. Eng.: B **2026**, 326, 119140. (Q1, IF: 4.6)
<https://doi.org/10.1016/j.mseb.2025.119140>
- 96 Enhanced pseudocapacitive performance and electrochemical kinetics of pristine and Mn@WO₃ for high-stability hybrid supercapacitor
M. Roshnia, P. Sasikumar, P. Veerakumar, P. Sengodan, H. Bencherif
Inorg. Chem. Commun., **2026**, 184, 115929. (Q2, IF: 5.4)
<https://doi.org/10.1016/j.inoche.2025.115929>
- 95 Development of Zn-doped α -Fe₂O₃@NS-Ox-MWCNTs nanohybrid: Photocatalytic degradation of food dye and investigation of multifunctional biological assessments
G. Udayakumar, P. Veerakumar*
Mater. Res. Bull., **2026**, 196, 113926 (Q1, IF: 5.7)
<https://doi.org/10.1016/j.materresbull.2025.113926>
- 94 Ferruginol potentiates the inhibition of oral cancer cell proliferation by modulating the expression of Akt-1/mTOR-mediated signaling
P. Veerakumar, V. Vishnu Priya, S. Jayaraman
Oral. Maxillofac. Pathol. J. **2026** (Accepted)
- 93 Rhenium-palladium nanoparticle decorated-porous carbons: Investigation of multifunctional biological assessments and catalytic activity
N.D. Rajaraman and P. Veerakumar*
Diam. Relat. Mater., **2025**, 159, 112729 (Q1, IF: 5.1)
<https://doi.org/10.1016/j.diamond.2025.112729>
- 92 Preparation of palladium decorated on three-dimensional bismuth sulfide nanoflowers for enhanced removal of neonicotinoids
P. Veerakumar*, S. Jayaraman, M. J. Firdhouse, K. Saranya
J. Water Process Eng., **2025**, 77, 108416 (Q1, IF: 6.7)

- <https://doi.org/10.1016/j.jwpe.2025.108416>
91. Biomolecule-assisted solvothermal synthesis of Cu_3BiS_3 nanoflowers for pharmaceutical and photodegradation applications
S.K. Ethalya, P. Veerakumar*
Colloids. Surf. A: Phys. Eng. Aspects **2025**, 703, 135242. (Q1, IF: 5.4)
<https://doi.org/10.1016/j.colsurfa.2025.137351>
 90. Amplifying anticancer and DNA fragmentation activities through surface-functionalization of nanorods-like graphitic carbon nitride sheets
V. Sathya, S. Santhoshkumar, S. Thirunavukkarasu, P. Veerakumar, A. Saravanakumar, T. R. Heera, S. Suresh
Diam. Relat. Mater. **2025**, 155, 112252. (Q1, IF: 5.1)
<https://doi.org/10.1016/j.diamond.2025.112252>
 89. Hydrothermal synthesis of DyNbO_4 hollow spheres anchored on heteroatoms-doped reduced graphene oxide for electrochemical detection of environmental pollutant 4-nitrotoluene
R. Pandiyan, P. Veerakumar, S.-M. Chen, J.-T. Liu
J. Environ. Chem. Eng. **2025**, 13, 116450. (Q1, IF: 7.2)
<https://doi.org/10.1016/j.jece.2025.116450>
 88. Photo-assisted synthesis of bimetallic $\text{Pd-Ag}@O_x\text{-MWCNTs}$ for biomedical and catalytic applications
A.K. Wajith, P. Veerakumar*
Inorg. Chem. Commun., **2025**, 177, 114352. (Q2, IF: 5.4)
<https://doi.org/10.1016/j.inoche.2025.114352>
 87. Microwave-assisted hydrothermal synthesis of $\text{Sm}_2\text{O}_3@\text{ZnO}$ nanohybrid for photooxidation of flavonoid
P. Veerakumar,* R. Pandiyan, S.-M. Chen
Mater. Res. Bull., **2025**, 188, 113399. (Q1, IF: 5.7)
<https://doi.org/10.1016/j.materresbull.2025.113399>
 86. Copper aerogel frameworks—Electrochemical detection of dopamine and catalytic reduction of 4-nitrophenol,
R. Ramkumar, P. Veerakumar, S. Rajendrachari, G. Dhakal, J. Yun, J.-J. Shim, W.K. Kim
Microchem. J. **2025**, 208, 112486. (Q1, IF: 5.1)
<https://doi.org/10.1016/j.microc.2024.112486>
 85. 3D carbon sponge-derived from red onion skin for solid-state supercapacitor
P. Veerakumar, A.P. Periasamy, A. Sangili, C.-C. Huang, H.-T. Chang
Nano-Struct. & Nano-Obj. **2024**, 40, 101355. (Q2, IF: NA)
<https://doi.org/10.1016/j.nanoso.2024.101355>
 84. Microwave-assisted hydrothermal synthesis of biogenic $\text{Ag}_3\text{PO}_4@\text{NS-rGO}@Ag\text{NDs}$ nanocomposite for pharmaceutical and photodegradation applications
V. Kalimuthu and P. Veerakumar*
Colloids. Surf. A: Phys. Eng. Aspects **2024**, 703, 135242. (Q1, IF: 5.4)
<https://doi.org/10.1016/j.colsurfa.2024.135242>

83. Green synthesis of ultrafine gold nanoparticles from sweet flag (*Acorus calamus*) for effective anti-leukemic, anti-urolithiatic and in silico docking studies
M. Jannathul Firdhouse, P. Lalitha, P. Arulpriya, P. Veerakumar, G. Arivalagan, K. Shahul Hameed, S. Sivakumar
J. Mol. Liqs, **2024**, 405, 125329. (Q1, IF: 5.2)
<https://doi.org/10.1016/j.molliq.2024.125329>
82. N-doped ZnWO₄ nanorods decorated on N-doped reduced graphene oxide sheets for electrochemical detection of diphenylamine
R. Pandiyan, P. Veerakumar, S.-M. Chen, P. Rameshkumar
ACS Appl. Nano Mater. **2024**, 7, 12507-12520. (Q1, IF: 5.5)
<https://doi.org/10.1021/acsanm.4c00956>
81. Carbon spheres anchored on sulfur-doped nanosheet/nanowire g-C₃N₄ isotype heterojunctions as a metal-free hybrid electrode for voltammetric determination of antioxidant
C. Rajkumar, P. Veerakumar, L. Nkenyereye, M.R. Tamtam, W.-Y. Chung, J. Shim
Microchem. J. **2024**, 204, 110961. (Q1, IF: 5.1)
<https://doi.org/10.1016/j.microc.2024.110961>
80. Microwave-assisted hydrothermal synthesis of Ru-doped Mn₃O₄ nanoflowers for biomedical applications
H.L.A. Khan, V.P. Veeraraghavan, P. Veerakumar*
Texila Inter. J. Public Health **2024**. (Q4, IF: NA)
DOI: 10.21522/TIJPH.2013.SE.24.01.Art005
79. Polyol-assisted synthesis of NdFeO₃ nanoparticles decorated porous N-CNTs for voltammetric sensing of furazolidone in veterinary feeds and urine samples
R. Pandiyan, V. Vinothkumar, S.-M. Chen, P. Veerakumar, T. H. Kim
Surf. Interfaces **2024**, 49, 104365. (Q1, IF: 6.3)
<https://doi.org/10.1016/j.surfin.2024.104365>
78. Photocatalytic degradation of phenolic pollutants over palladium-tungsten trioxide nanocomposite
P. Veerakumar*, A. Sangili, S.-M. Chen, R. Suresh Kumar, G. Arivalagan, M. Jannathul Firdhouse, K. Shahul Hameed, S. Sivakumar
Chem. Eng. J. **2024**, 489, 151127. (Q1, IF: 13.2)
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