

Academic Career Profile of

Dr. Sepperumal Murugesan

Professor and Head, Department of Inorganic Chemistry,
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Educational Qualifications

Name of Degree	University	Year of passing	Division/class/ grade	Main subject
B.Sc.	Bharathidasan University	April 1991	I Class	Chemistry
B.Ed	Annamalai University	May 1993	II Class	English & Physical Science
M.Sc.	Bharathidasan University	April 1995	I Class	Chemistry
Ph.D	University of Madras	April 2003	Highly Commented	Chemistry-Energy Interdisciplinary

DoB: 05.02.1971

Date of Retirement: 04.02.2031

Professional Experience

No	Institution	Position	From (date)	To (date)
1	Madurai Kamaraj University	Professor and Head	01.07.2019	Till date
2	Madurai Kamaraj University	Professor	31.05.2016	30.06.2019
3	Madurai Kamaraj University	Associate Professor	16-07-2010	30.05.2016
4	Madurai Kamaraj University	Reader	16-07-2007	15-07-2010
5	Royal Institute of Tech., Sweden	Visiting Researcher	31.08.2005	13.07.2007
6	SRM University, Chennai	Lecturer	21.07.2004	27.08.2005
7	Dept of Energy, University of Madras	CSIR Res. Assoc.	01.05.2003	31.05.2004

Research Guidance/Supervision

Program	Completed	Ongoing
Ph.D	12 (Twelve)	5 (Five)
M.Phil.	11 (Eleven)	---

Major Research Projects

S No	Title of research project	Funding agency and Period	Total grants received (Rs.)
1	Study of detergent based nanocomposite solid electrolytes for dye-sensitized solar cells	DST-SERB, (2012 – 2015)	26.60 Lakh
2	Investigation of New Hole Transporting Materials for Efficient Perovskite Organic-Inorganic Hybrid Solar Cells	DST, Technology Mission (2016 – 2019)	23.36 Lakh
3	Development of Functional Nanomaterials for Green Energy and Environment	RUSA, MHRD- Gov't of India & RUSA-Gov't of Tamil Nadu (2021 – 2024)	152.58 Lakh

Research Specialization

Nanomaterials for photocatalytic applications
 Dye-sensitized Solar Cells, Photoelectrochemistry
 Nanomaterial-biomolecule interactions

Patents:

P. Maruthamuthu, B. Muthuraaman, S. Ganesan, S. Anandan, **S. Murugesan**, J. Madhavan, S.A. Suthanthiraraj, An improved solid-state polymer composition; A process for its preparation and an improved dye-sensitized solar cell, Patent No. 266300 (2728/CHE/2007) dt. 22.11.2007

Research Collaborations

Name of the Collaborator	Institute	Collaboration Details
Dr. S. Anandan	NIT, Tiruchirappalli	Research Collaboration
Prof. R.V. Mangalaraja	University of Concepcion, Chile	Research Collaboration
Prof. Hector Valdés	Catholic University of Santísima, Concepción, Chile	Research Collaboration
Prof. Panagiotis G. Smirniotis	University of Cincinnati, USA	Research Collaboration
Prof. M. Selvaraj	King Khalid University, Saudi Arabia	Research Collaboration
Dr. J. Madhavan	Thiruvalluvar University, Vellore	Research Collaboration

Countries Visited: Australia, Singapore, Sweden and Chile

Honors/ Awards/ Recognitions

Visiting Researcher award – Royal Inst. of Tech., Stockholm, Sweden, 2005 to 2007
 Active reviewer for 28 Elsevier Sci. Journals, Two ACS and Two Taylor & Francis Journals
 Outstanding Contribution to Reviewing Award from 7 Elsevier Science Journals.
 Fellow of Academy of Sciences, Chennai

Conference/Seminar/Workshop organized

Name of Conference/Seminar	Date(s)	Place	Role Played
Intl. Conf. on Recent Trends in Chemistry and Biosciences	16-17 May, 2019	Madurai Kamaraj University	Co-Convener
Nanomaterials Characterization by Electron Microscopy	21-22 Feb, 2018	Madurai Kamaraj University	Convener
Transmission Electron Microscopy	7-8 Jan, 2016	Madurai Kamaraj University	Organizing Secretary
Recent Advances in Inorganic and Nanochemistry	29-30 Mar, 2010	Madurai Kamaraj University	Organizing Secretary

Administrative Experience

Role Played	Responsibilities	Period
Dean – Faculty of Science, MKU	Planning/Scrutiny - academic works	Dec 2023 – till date
Management Committee Member – ANJA College Sivakasi & NMSVN College, Madurai	Colleg management activities	May 2023 – till date
Member – AC and Senate, MKU	Planning/approval–academic/Admin	May 2019 – till date
Coordinator, Central Instrumentation Centre, MKU	Maintaining HRTEM, SEM, TG/DSC, etc., Instruments	May 2019– Till date
Director, IQAC, MKU	IQAC related -NAAC, AQAR, etc	July 2021 – July 2023
Member IQAC & Coordinator, MKU-NIRF	Consolidation and submission of MKU data to NIRF, New Delhi	Oct 2018 – Dec 2020
Program Implementation Group Member, DST-PURSE-MKU	Implementation of DST-PURSE at MKU	Oct 2016 – Sep 2022
Member, Admission Monitoring Committee, MKU	Monitoring the PG and M.Phil Admission of MKU 2018-19	2018-19, 2022-2023
Awards Committee Member (Madurai Instt. of Social Sci, Madurai & EMG Yadava Women's College, Mdu)	Scrutiny and approval of Examination results	April 2019-Apr 2022

Membership in Academic Bodies

Member, Board of studies, Sri Kaliswari College (Autonomous), Sivakasi, May 2019 onwards
 Member, Board of studies (UG), Mannar Thirumalai Naicker College, Madurai, May 2019 onwards
 Member, Board of studies (MPhil), S.R. Naidu Memorial College, Sattur, May 2019 onwards
 Member, Board of studies (PG & MPhil), School of Chemistry, MKU, July 2007 – till date
 Member, Board of studies (PG), Mother Teresa University, Kodaikanal, Aug 2013 to July 2015.
 Chairman, PG Chem Qn Setting Board, Bharathidasan Uni. Tiruchirappalli. Apr 2016- Nov 19

Membership in professional bodies

Fellow of Academy of Sciences, Chennai
 Silver Member of the International Solar Energy Society
 Member of the Indian Society for Radiation and Photochemical Sciences
 Member of International Solid State Ionics Society
 Member of Indian Solid State Ionics Society

Research Publications Metrics

Articles in International Journals (Indexed): **105**

Articles in National Journals (Refereed): **05**; Papers Presented in Conferences/Seminars: 35

Cumulative Impact Factor: 480.75

Total Citations: 2376

h-Index: 24

i10-Index: 68

Google Scholar page: scholar.google.com/citations?hl=en&user=3t2bgsAAAAAJ&view_op=list_works

List of Publications

Published in International Journals (Indexed)

1. M Kandasamy, A.H Seikh, S Suresh, A Kumar, A Husain, P Vijayakumar, TT Dele-Afolabi, N Pugazhenthiran, S Murugesan, M.N.M Ansari, Fabrication of ternary zinc-nickel-copper oxide microsphere nanocomposite photoanode material for boosting dye-sensitized solar cell efficiency, *J. Alloys and Compounds*, 2024, **1000**, 175039. Imp. Fac. 5.8
2. M Kandasamy, A Husain, S Suresh, J Giri, D.J Jasim, P Rameshkumar, H.A Al-Lohedan, S Thambidurai, N Kumar, M.N.M Ansari, S Murugesan, Enhanced dye-sensitized solar cell performance and electrochemical capacitive behavior of bi-functional ZnO/NiO/Co₃O₄ ternary nanocomposite prepared by chemical co-precipitation method, *J. Science: Advanced Mater. and Devices*, 2024, **9**, 100726. I.F. 6.7
3. M. Kandasamy, S. Suresh, M. Deepan Kumar, S. Murugesan, M. Selvaraj, K. Prem Ananth, Niraj Kumar, Ahmad Husain, N. Pugazhenthiran, P. Sathishkumar, M.N.M. Ansari, Combined experimental and DFT investigation on photovoltaic performance of low-cost metal-free organic dye-sensitized solar cells, *Inorg. Chem. Commun.*, 2024, **164**, 112406. Imp. Fac. 4.4
4. R Rajendiran, P Balla, R Balaga, M Selvaraj, V Perupogu, S Murugesan, U Lassi, P.K Seelam, MnO₂ shape dependent catalytic activity in vapour phase benzyl alcohol (BnOH) oxidation in presence of air, *Chemical Engineering Science*, 2024, **285**, 119641. Imp. Fac. 4.1
5. M Kandasamy, S Suresh, A El-marghany, N Pugazhenthiran, S Karthick Kumar, S Murugesan, M.N.M Ansari, Plasmonic silver nanoparticles anchored ethylenediamine-titania nanobelt composite photoanode for efficient electron transport in dye-sensitized solar cell, *Mater. Res. Bull.*, 2024, **171**, 112602. I.F. 5.3
6. H Muniyasamy, M.K Aravind, M Arunkumar, B Ashokkumar, S Murugesan, A Siva, Pharmacophore-based synthesis of pyrazole analogues as artificial antibiotics targeting Salmonella Typhi, *J Mol. Structure*, 2024, **1296**, 136801. Imp. Fac. 3.8
7. N Murugesan, S Suresh, M Kandasamy, S Murugesan, N Pugazhenthiran, V.P Venkatesh, B.K Balachandar, S Karthick Kumar, M.N.M Ansari, Facile dip-coating assisted preparation of reduced graphene oxide-copper oxide nanocomposite thin films on aluminum substrate for solar selective absorber, *Physica B*, 2023, **669**, 415288. Imp. Fac. 2.8
8. N Malini, S Murugesan, A Siva, Design and Development of Fluorescent Chemosensors for the Recognition of Biological Amines and Their Cell Imaging Studies, *Biosensors Nanotechnology*, Scrivener Publishing LLC, 2023, 245-266. (Book Chapter)
9. K Kumar, S Murugesan, T Muneeswaran, C.M Ramakritinan, Investigation of some new main group metal complexes of hydrazine and 2-mercaptopyridine-3-carboxylic acid mixed-ligands, *J. Heterocyclic Chemistry*, 2023, **60**, 1447-1457. Imp. Fac. 2.0

10. K Karupiah, N Malini, C Muniyappan, C Yesudhasan, S Murugesan, J.R Rajabathar, M Karnan, A Siva, M Selvaraj, A novel hydrazone platform for the recognition of Cd^{2+} and F^- ions: Imaging analysis in Zebrafish embryos, *J Mol. Structure*, 2023, **1282**, 135152. Imp. Fac. 3.8
11. N Murugesan, S Suresh, S Murugesan, BK Balachandar, M Kandasamy, N Pugazhenthiran, J Selvi, P Indira, S Karthick Kumar, Improving selectivity of thin film solar absorber by cobalt oxide grafted reduced graphene oxide, *Optical Materials*, 2023, **138**, 113629 Imp. Fac. 3.8
12. P Sasikala, T Bavani, M Selvaraj, M Preeyanghaa, B Neppolian, S Murugesan, J Madhavan, A Z-scheme $\text{BiYO}_3/\text{g-C}_3\text{N}_4$ heterojunction photocatalyst for the degradation of organic pollutants under visible light irradiation, *Environmental Science and Pollution Research*, 2023, **30**, 41095–41106. I.F. 5.19
13. R Sasikala, M Kandasamy, S Suresh, V Ragavendran, V Sasirekha, N Pugazhenthiran, S. Murugesan, S Alex Pandian M.N.M Ansari, J Mayandi, Strontium titanate perovskite embedded reduced graphene oxide photoanode for dye-sensitized solar cell, *Optical Materials*, 2023, **136**, 113464. Imp. Fac. 3.8
14. S Arumugam, T Bavani, M Selvaraj, B.M Al-Shehri, M Preeyanghaa, S Jung, J Theerthagiri, B Neppolian, S Murugesan, J Madhavan, M Yong Choi, Construction of direct $\text{FeMoO}_4/\text{g-C}_3\text{N}_4$ -2D/2D Z-scheme heterojunction with enhanced photocatalytic treatment of textile wastewater to eliminate the toxic effect in marine environment, *Chemosphere*, 2023, **313**, 137552. Imp. Fac. 8.1.
15. N. Pugazhenthiran, P. Sathishkumar, Omeer Albormani, S. Murugesan, M. Kandasamy, M. Selvaraj, S. Suresh, S. Karthick Kumar, D. Contreras, H. Váldes, R.V. Mangalaraja, Silver nanoparticles modified ZnO nanocatalysts for effective degradation of ceftiofur sodium under UV–vis light illumination, *Chemosphere*, 2023, **313**, 137515. Imp. Fac. 8.1.
16. K Kumar, S Murugesan, T Muneeswaran, C.M Ramakritinan, Synthesis, characterization, and biological activities of five new trivalent lanthanide complexes of hydrazine and 3, 3'-thiodipropanoic acid, *Current Chemistry Letters*, 2023, **12**, 721-732. Imp. Fac. NA
17. S Karthick Kumar, S Murugesan, S Suresh, Anodization assisted preparation of diverse nanostructured copper oxide films for solar selective absorber, *Optical Materials*, 2023, **135**, 113304 Imp. Fac. 3.8
18. T. Bavani, J. Madhavan, M. Preeyanghaa, B. Neppolian, S. Murugesan, Construction of direct Z-scheme $\text{g-C}_3\text{N}_4/\text{BiYWO}_6$ heterojunction photocatalyst with enhanced visible light activity towards the degradation of methylene blue, *Environmental Science and Pollution Research*, 2023, **30**, 10179–10190. I.F. 5.19
19. E Vimali, N Sakthi Vignesh, M Kandasamy, S Murugesan, A Dhakshinamoorthy, M Arumugam, I.M Ganesh Moorthy, B Ashokkumar, P Varalakshmi, Influence of Food Waste and Graphene Oxide Nanosheets on Monoraphidium sp. VV1 Biomass and Biodiesel Production, *Topics in Catalysis*, 2022,. Imp. Fac. 2.8.
20. S.R Rubina, S Indhu Leka, K Sathya Priya, R Ranjith Kumar, S Murugesan, One-Pot Three-Component Domino Synthesis of Isoxazolo[5,4-b]pyrano[2,3-f]quinolines: An Efficient Fluorescent Turn-off Chemosensor for Picric Acid, *ChemistrySelect*, 2022, **7**, e202203902. Imp. Fac. 1.9.
21. S.R. Rubina, P.H. Stalin, C.S. Meenatchi, S. Murugesan, R. Ranjith Kumar, Synthesis of epiminocyclohepta[b]pyrazolo[4,3-e]pyridines from tropinone: Fluorescent "Turn on–off" chemosensors for the sequential detection of Al^{3+} , Cd^{2+} and Pb^{2+} in nanomolar concentration, *J. Mol. Structure*, 2022, **1269**, 133724. Imp. Fac. 4.0 .
22. R. Sasikala, M. Kandasamy, V. Ragavendran, S. Suresh, V. Sasirekha, S. Murugesan, S. Sagadevan, J. Mayandi, Perovskite zinc titanate-reduced graphene oxide nanocomposite photoanode for improved photovoltaic performance in dye-sensitized solar cell, *Physica B*, 2022, **646**, 414300. Imp. Fac. 2.8
23. S. Arumugam, T. Bavani, M. Preeyanghaa, S.O. Alaswad, B. Neppolian, J. Madhavan, S. Murugesan, A facile synthesis of visible light driven $\text{Ni}_3\text{V}_2\text{O}_8$ nano-cube/ BiVO_4 nanorodcomposite photocatalyst with enhanced photocatalytic activity towards degradation of acid orange 7, *Chemosphere*, 2022, **308**, 136100. Imp. Fac. 8.1.
24. N Murugesan, S Suresh, M Kandasamy, S Murugesan, N Pugazhenthiran, S Karthick Kumar, Enhancing selectivity of solar absorber using reduced graphene oxide modified nickel oxide nanocomposite thin films, *Solar Energy*, 2022, **247**, 185-195 Imp. Fac. 6.0

25. N Prabakaran, C Balamurugan, S Murugesan, Studies on DNA Interaction of Alanine and L-cysteine Functionalized ZnO Nanoparticles, *Int. J. Innovative Sci. and Res. Technol*, 2022, **7**, 80-852. I.F. NA
26. N. Pugazhenthiran, H. Valdes, R.V. Mangalaraja, P. Sathishkumar, S. Murugesan, Graphene modified "black {001} TiO₂" nanosheets for photocatalytic oxidation of ethylene: the implications of chemical surface characteristics in the reaction mechanism, *Sep. Purif. Technol.*, 2022, **292**, 121008. I.Fac. 8.2
27. D. Balaji, J. Madhavan, M. Preeyanga, M. Hussien, M. Selvaraj, S. Murugesan, B. Neppolian, Phosphorus co-doped reduced graphene oxide embedded flower-like CoS/CoS₂ heterostructure as an efficient electrocatalyst for hydrogen evolution reaction in acidic media, *J. Alloys and Compounds*, 2022, **907**, 164506. Imp. Fac. 5.8
28. T. Bavani, A. Selvi, J. Madhavan, S. Vijayanand, V. Vinesh, B. Neppolian, S. Murugesan, M. Selvaraj, One-pot synthesis of bismuth yttrium tungstate nanosheet decorated 3D-BiOBr nanoflower heterostructure with enhanced visible light photocatalytic activity, *Chemosphere*, 2022, **297**, 133993. Imp. Fac. 8.1
29. M Kandasamy, M Selvaraj, C Kumarappan, S Murugesan, J. Mayandi, Plasmonic Ag nanoparticles anchored ethylenediamine modified TiO₂ nanowires@graphene oxide composites for dye-sensitized solar cell, *J. Alloys and Compounds*, 2022, **902**, 163743. Imp. Fac. 5.8
30. T. Bavani, V. Vinesh, B. Neppolian, S. Murugesan, M. Selvaraj, J. Madhavan, One-step synthesis of rod-on-plate like 1D/2D-NiMoO₄/BiOI nanocomposite for an efficient visible light driven photocatalyst for pollutant degradation, *Environmental Sci. and Pollution Res.* 2022, **29**, 65222-65232. Imp. Fac. 5.19
31. H. Muniyasamy, K. Muthusamy, M. Chinnamadhiyan, Murugesan Sepperumal, S. Ayyanar, M. Selvaraj, Molecular Design and Cost-Effective Synthesis of Tetraphenylethene-Based Hole-Transporting Materials for Hybrid Solar Cell Application, *Energy & Fuels*, 2022, **36**, 3909-3919. Imp. Fac. 4.65.
32. K. Karupiah, M. Nelson, M. Mujahid alam, M. Selvaraj, Murugesan Sepperumal, Siva Ayyanar, A new 5-bromoindolehydrazone anchored diiodosalicylaldehyde derivative as efficient fluoro and chromophore for selective and sensitive detection of tryptamine and F⁻ ions: Applications in live cell imaging, *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 2022, **269**, 120777. Imp. Fac. 4.3
33. M Kandasamy, S Murugesan, M Selvaraj, M Mujahid Alam, Aminosilicate modified zinc oxide Nanorod-GO nanocomposite for DSSC photoanodes, *Ceramic International*, 2022, **48**, 6037-6045. Imp. Fac. 5.1
34. M Kandasamy, M Selvaraj, M Mujahid Alam, P Maruthamuthu, S Murugesan, Nano-silver Incorporated Amine Functionalized Graphene Oxide Titania Nanotube Composite: a Promising DSSC Photoanode, *J. Taiwan Instt. Chem. Engg.* 2022, **131**, 104205. Imp. Fac. 5.5
35. M Kandasamy, S Murugesan, Mohammed M Alam, M Selvaraj, Effect of Anatase and Rutile Phase Microspheres Composition on Dye-Sensitized Solar Cell Photoanode Performance, *Indian J. Pure & applied Phys.* 2022, **60**, 126-130. Imp. Fac. 0.7
36. N. Pugazhenthiran, S. Murugesan, H. Valdés, M. Selvaraj, P. Sathishkumar, P.G. Smirniotis, S. Anandan, R.V. Mangalaraja, Photocatalytic oxidation of ceftiofur sodium under UV-visible irradiation using plasmonic porous Ag-TiO₂ nanospheres, *J. Industrial and Engg. Chem.* 2022, **105**, 384-392. I.F. 5.9
37. M. Nelson, H. Muniyasamy, P. Ongi, S. Balakrishnan, Murugesan Sepperumal, S. Ayyanar, R. Jegathalaprathaban, Incredible colorimetric sensing behavior of pyrazole-based imine chemosensor towards copper(II) ion detection: synthesis, characterization and theoretical investigations, *Results in Chemistry*, 2022, **4**, 100501. Imp. Fac. 2.3
38. K. Karupiah, H. Muniyasamy, M. Nelson, M. Selvaraj, Murugesan Sepperumal, Siva Ayyanar, A novel indolehydrazone appended salicylaldehyde platform for detection of multianalytes (Al³⁺, Zn²⁺ and F⁻ ions): Live cell imaging, *Inorg. Chem. Commun.*, 2022, **135**, 109080. Imp. Fac. 4.4

39. M. Selvaraj, M.A. Assiri, S.L. Rokhum, C. Manjunatha, J.N. Appaturi, S. Murugesan, A. Bhaumik, Ch Subrahmanyam, Solvent-free benzylic oxidation of aromatics over Cu(II)-containing propylsalicylaldehyde anchored on the surface of mesoporous silica catalysts, *Dalton Transactions*, 2021, **50**, 15118-15128, I. F. 3.5
40. R. Sasikala, M. Kandasamy, S. Suresh, V. Ragavendran, V. Sasirekha, J.M. Pearce, S. Murugesan, J. Mayandi, Enhanced dye-sensitized solar cell performance using strontium titanate perovskite integrated photoanodes modified with plasmonic silver nanoparticles, *J. Alloys and Compounds*, 2021, **889**, 161693. Imp. Fac. 5.8
41. K. Krishnaveni, S. Murugesan, A. Siva, Fluorimetric and colorimetric detection of multianalytes $Zn^{2+}/Cd^{2+}/F^{-}$ ions via 5-bromosalicyl hydrazone appended pyrazole receptor; live cell imaging analysis in HeLa cells and zebra fish embryos, *Inorg. Chem. Commun.*, 2021, **132**, 108843. Imp. Fac. 4.4
42. M. Nelson, H. Muniyasamy, A.M. Kubendran, A. Balasubramaniam, Murugesan Sepperumal, S. Ayyanar, Carbazole based fluorescent chemosensor for the meticulous detection of tryptamine in aqueous medium and its efficacy in cell-imaging and molecular logic gate, *J. Molecular Liquids*, 2021, **337**, 116445. Imp. Fac. 5.3
43. H. Muniyasamy, C. Chinnadurai, M. Nelson, A.M. Kubendran, K. Sukumaran, A. Balasubramaniam, Murugesan Sepperumal, S. Ayyanar, M. Govindasamy, A. Ghfar, F.M. Alsubaie, Highly selective fluorescent chemosensor for cyanide ion in aqueous medium and its applications of logic gate and HeLa cells, *J. Molecular Liquids*, 2021, **334**, 116076. Imp. Fac. 5.3
44. C. Pandiyarajan, P. Rameshkumar, S. Murugesan, M. Selvaraj, Silver nanoparticles-supported graphitic-like carbon nitride for the electrochemical sensing of nitrobenzene and its derivatives, *J. Materials Science: Materials in Electronics*, 2021, **32**, 19912-19924. Imp. Fac. 2.4
45. H. Muniyasamy, C. Chinnadurai, M. Nelson, A. Veeramanocharan, **S. Murugesan**, A. Siva, Synthesis of C_3 -Symmetric Triazine-Based Derivatives: Study of their AIEE, Mechanochromic Behaviors, and Detection of Picric Acid and Uric Acid in Aqueous Medium, *Industrial & Engineering Chemistry Research*, 2021, **60**, 7987-7997. Imp. Fac. 3.8
46. N. Pugazhenthiran, S. Murugesan, T. Muneeswaran, S. Suresh, M. Kandasamy, H. Valdés, M. Selvaraj, A. Dennyson Savariraj, RV. Mangalaraja, Biocidal activity of citrus limetta peel extract mediated green synthesized silver quantum dots against MCF-7 cancer cells and pathogenic bacteria, *J. Environ. Chem. Eng.*, 2021, **9**, 105089. Imp. Fac. 7.4 .
47. C. Chithiraikumar, P. Kottala Vijaya, M. Harikrishnan, N. Malini, **S. Murugesan**, A. Siva, Efficient base-free asymmetric one-pot synthesis of spiro[in doline-3,3'-pyrrolizin]-2-one derivatives catalyzed by chiral organocatalyst, *Research on Chemical Intermediates*, 2021, **47**, 895-909. Imp. Fac. 3.13
48. K. Krishnaveni, M. Iniya, **S. Murugesan**, S. Ayyanar, A dual responsive probe based on bromo substituted salicylhydrazone moiety for the colorimetric detection of Cd^{2+} ions and fluorometric detection of F^{-} ions: Applications in live cell imaging, *Int. J. Bioorg. and Med. Chem.*, 2021, **1**, 1-9. Imp. Fac. NA
49. Krishnaveni Karuppiyah, Harikrishnan Muniyasamy, **Murugesan Sepperumal**, A. Siva, Design and synthesis of new salicylhydrazone tagged indole derivative for fluorometric sensing of Zn^{2+} ion and colorimetric sensing of F^{-} ion: Applications in live cell imaging, *Microchemical Journal*, 2020, **159**, 105543. Imp. Fac. 4.9
50. N. Murugesan, S. Suresh, M. Kandasamy, **S. Murugesan**, S.K. Kumar, Facile preparation of reduced graphene oxide wrapped copper oxide thin film solar selective absorbers, *Ceramic International*, 2020, **46**, 27897-27902. Imp. Fac. 5.1
51. N. Pugazhenthiran, RV. Mangalaraja, S. Vijaya, S. Suresh, M. Kandasamy, P. Sathishkumar, H. Valdés, MA. Gracia-Pinilla, **S. Murugesan**, S. Anandan, Fluorine-free synthesis of reduced graphene oxide modified anatase TiO_2 nanoflowers photoanode with highly exposed {0 0 1} facets for high performance dye-sensitized solar cell, *Solar Energy*, 2020, **211**, 1017-1026 Imp. Fac. 6.0

52. M. Kandasamy, **S. Murugesan**, Aminosilicate modified mesoporous anatase TiO₂@ graphene oxide nanocomposite for dye-sensitized solar cells, *Solar Energy*, 2020, **211**, 789-798 Imp. Fac. 6.0
53. K. Krishnaveni, M. Iniya, A. Siva, N. Vidhyalakshmi, S. Sasikumar, U.K. Pandian Ramesh, **S Murugesan**, Naphthyl hydrazone anchored with nitrosalicyl moiety as fluorogenic and chromogenic receptor for heavy metals (Ag⁺, Hg²⁺) and biologically important F⁻ ion and its live cell imaging applications in HeLa cells and Zebrafish embryos, *J. Mol. Struct.*, 2020, **1217**, 128446. Imp. Fac. 4.0
54. H. Muniyasamy, **S. Murugesan**, S. Ayyanar, Novel star shaped D-π-D-π-D and (D-π)₂-D-(π-D)₂, anthracene-based hole transporting material for perovskite solar cells, *Nanoscale Adv.*, 2020, **2**, 3514-3524. Imp. Fac. 4.6
55. Jeya Shree Ganesan, **Murugesan Sepperumal**, B. Ashokkumar, S. Ayyanar, A novel pyrazole bearing imidazole frame as ratiometric fluorescent chemosensor for Al³⁺/Fe³⁺ ions and its application in HeLa cell imaging, *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 2020, **230**, 117993. Imp. Fac. 4.3
56. G. Jeya Shree, **S. Murugesan**, A. Siva, A highly sensitive and selective Schiff-base probe as a colorimetric sensor for Co²⁺ and a fluorimetric sensor for F⁻ and its utility in bio-imaging, molecular logic gate and real sample analysis, *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 2020, **226**, 117613. I.F. 4.3
57. V. Sadhasivam, M. Harikrishnan, G. Elamathi, R. Balasaravanan, **S. Murugesan**, A. Siva, Copper nanoparticles supported on highly nitrogen-rich covalent organic polymers as heterogeneous catalysts for the ipso-hydroxylation of phenyl boronic acid to phenol, *New J. Chem.*, 2020, **44**, 6222-6231. I. F. 2.7
58. M. Harikrishnan, V. Sadhasivam, M. Mariyappan, **S. Murugesan**, N. Malini, A. Siva, Simple triazine (D-A) based organic fluorophore selective dual sensor for Copper(II) and dichromate ions and its solvatochromism, solid state sensing, logic gate applications, *Dyes and Pigments*, 2019, **168**, 123-133. Imp. Fac. 4.1
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