

Dr. S. Murugan Profile



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Date of Joining KITS: 24.07.2008

Academic Background

Degree	University	Year
Ph.D	Bharathiar University – Pasteur Institute, Coonoor – Ph.D in Microbiology	2009

Degree	University	Year
M.Sc.	Manonmaniam Sundaranar University – Sivanthi Aditanar College, Nagercoil. M.Sc Microbiology	1998
B.Sc.	Bharathiar University – SNMV College of Arts and Science, Coimbatore. B.Sc Microbiology	1996

Courses Taught

- Microbiology and Molecular Genetics
- Algae Biotechnology
- Genetic Engineering and Recombinant Products
- Metabolic Engineering
- Microbiology
- Agricultural Biotechnology
- Bioethics, Biosafety and IPR
- Vaccine Technology

Research Interests

- Medical Microbiology
- Microbial Biotechnology
- Nanobiotechnology
- Neuropsychopharmacology
- Environmental Biotechnology

MOST RECENT PUBLICATIONS

- Sivakumar Adarshan, Vairavel Sivaranjani Sivani Sree, Pandiyan Muthuramalingam, Krishnanjana S Nambiar, **Murugan Sevanan**, Lakkakula Satish, Baskar Venkidasamy, Peerzada Gh Jeelani and Hyunsuk Shin Understanding Macroalgae: A Comprehensive Exploration of Nutraceutical, Pharmaceutical, and Omics Dimensions, *Plants* 2024, 13(1) [IF: 4.5]

- Reya Issac, Muthukumar Lakshmi Prabha, Robinson Emilin Renitta, **Sevanan Murugan**, Jincy Ann George, Theena Jemima Jebaseeli and Subramaniam Vijayanand Using Chemical Precipitation to Recover Struvite from Household Wastewater for Agricultural Fertilizer Utilization, *Engineering Proceedings 2023*, 59(1), 38
- Selva Kumar T, Michelle Nissintha Daisy BS Lavudiya Ramesh Babu, Ambigalla Ebenezer Paul, **Sevanan Murugan**, Rajiv Periakaruppan, Nanozymes as Catalytic Marvels for Biomedical and Environmental Concerns: A Chemical Engineering Approach, *Journal of Cluster Science* 2024 [IF:2.8]
- Johny Dathees, T, S. Prince Makarios Paul, Anandhavelu Sanmugam, A. Abiram, **S. Murugan**, Raju Suresh Kumar, Abdulrahman I. Almansour, Natrajan Arumugam, R. Nandhakumar, Dhanasekaran Vikraman Naphthalene derived Schiff base as a reversible fluorogenic chemosensor for aluminium ions detection *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 308 (2024) 123732 [IF:4.4]
- Gokul Paramasivam, Anandhavelu Sanmugam, Vishnu Vardhan Palem, **Murugan Sevanan**, Ananda Babu Sairam, Nachiappan Nachiappan, BuHyun Youn, Jung Sub Lee, Muthuchamy Nallal, Kang Hyun Park, Nanomaterials for detection of biomolecules and delivering therapeutic agents in theragnosis: A review, *International Journal of Biological Macromolecules* 254 (2024) 127904 [IF:8.2]
- Rehaboth Nissi, J., Bincy, T.S., Prajeesh, S., Vidhya, B., **Murugan, S.** Facile synthesis of Cu-doped BiVO₄ using domestic microwave-assisted chemical precipitation method with fleeting time of microwave irradiation for the photocatalytic application *Inorganic and Nano-Metal Chemistry*, 2023 [IF:1.7]
- Krishnanjana Nambiar, Saravana Kumari P, Dheeksha Devaraj and **Murugan Sevanan** Development of biopolymers from microbes and their environmental applications *Physical Sciences Reviews*, 2023
- Ashokkumar, V., Flora, G., Sevanan, M., Rajesh banu, J., **Murugan, S** Kumar, G. Technological advances in the production of carotenoids and their applications– A critical review *Bioresource Technology*, 2023, 367, 128215 [IF:11.88]
- Khaled, J.M., Alyahya, S.A., Govindan, R., **Murugan, S.**, Li, W.-J. Laccase producing bacteria influenced the high decolorization of textile azo dyes with advanced study,

Environmental Research, Volume 2071 May 2022 Article number 112211 [IF:8.431]

- Blessy Pricilla, R., Bhuvanesh, N., Vidhya, B., **Murugan, S.**, Nandhakumar, R. Exploration of GO-CuO nanocomposite for its antibacterial properties and potential application as a chemosensor in the sensing of L-Leucine *Inorganic and Nano-Metal Chemistry*, 2022, 52(8), pp. 1099–1108 [IF:1.7]
- Boopalan, S., Antony, A., Loyid, N.S., Vijaikanth, V., **Murugan, S.** Synthesis, characterization, X-ray crystal structures and antibacterial properties of cobaloximes with aniline based ligands containing acid functionality *Inorganic and Nano-Metal Chemistry*, 2021 [IF:1.7]
- Pandiyaraj, V., Murmu, A., Pandey, S.K., **Sevanan, M.**, Arjunan, S. Metal nanoparticles and its application on phenolic and heavy metal pollutants *Physical Sciences Reviews*, 2021
- Sujitha Kuttinath, **S Murugan** and R. Rammohan, Inhibition of Methicillin Resistant *Staphylococcus aureus* Biofilm by Ethanol Extracts of *Sauropus androgynous* and *Solanum torvum* *Indian Journal of Pharmaceutical Sciences*, 83(6):1155-1163 (2021)
- Gratia, Z.K., Nandhakumar, R., Mahanty, B., **Murugan, S.**, Muthusamy, P., Vinayak, K.S. Biosorption of Nickel from Metal Finishing Effluent Using Lichen *Parmotrema tinctorum* Biomass, *Water, Air, and Soil Pollution*, 232 (11); (2021) [IF:2.9]
- Krishnasamy Velmurugan, Nanjan Bhuvanesh, Arul Felix Prakash, Velusamy Maheskumar, Bhojan Vidhya,, **Sevanan Murugan**, Raju Suresh Kumar, Abdulrahman. Almansour, Karthikeyan Perumal, and Raju Nandhakumar, Graphene oxide–rhodamine nanocomposite for picomolar detection of chromium (III) by fluorimetry and its biofilm inhibition, *Microchimica Acta*, 188:414 (2021) [IF: 6.23]
- Vijaikanth, V, S.Vasuki, C. Immanuel David, L. Chandra, S. Sowmya and **S. Murugan** Synthesis, Characterization and Antimicrobial Activity Studies of Chlorocobaloximes with Neutral Bases Containing Amine Functionality, *Asian Journal of Chemistry*, 33 (11) (2021), 2781-2788

- Sugumar Mani · **Murugan Sevanan** · Alagudurai Krishnamoorthy, Sathiya Sekar, A systematic review of molecular approaches that link mitochondrial dysfunction and neuroinflammation in Parkinson's disease, *Neurological Sciences* [IF: 3.3]
- Govindan Rajivgandhi Vimala RT, Nandhakumar Raju, **Murugan Sevanan**, Naiyf S.Alharbi, Shine Kadaikunnan, Jamal M.Khaled, Khalid F.Alanzi, Wen-JunLi (2021) Adsorption of nickel ions from electroplating effluent by graphene oxide and reduced graphene oxide, 199, 111322 *Environmental Research* [IF:8.431]
- Blessy Pricilla, Bhuvanesh, N Charles Immanuel David, **S. Murugan**, R. Nandhakumar (2020), GO/NiO nanocomposite: Chemosensor for L-Leucine and a potential antibacterial agent, *Materials Today Proceedings*
- Govindan Ramachandran, Govindan Nadar Rajivgandhi, **Sevanan Murugan**, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, Taghreed N. Almanaa, Natesan Manoharan, and Wen-Jun Li (2020), Anti-carbapenamase activity of *Camellia japonica* essential oil against isolated carbapenem resistant *Klebsiella pneumoniae* (MN396685) *Saudi Journal of Biological Sciences* 27(9): 2269–2279 [IF: 4.4]
- Alagudurai Krishnamoorthy, **Murugan Sevanan** (2020), Chrysin exerts anti-oxidant properties and restores motor function in MPTP induced mouse model of Parkinson disease *International Journal of Research in Pharmaceutical Sciences* 11(3), 4388-4394
- Sindhu, S., **Murugan, S.** (2020), Challenges and opportunities in repurposing of drugs: Mini review *Bangladesh Journal of Medical Science* 19(3), 365-371
- Philomena Joy Lindsey, **Murugan S**, Emilin Renitta (2020), Microbial disease management in agriculture: Current status and future prospects *Biocatalysis and Agricultural Biotechnology* 23, 101468 [IF: 4.0]
- Alagudurai Krishnamoorthy, **Murugan Sevanan**, Sugumar Mani, Mangayarkarasi Balu, Sravani Balaji, Ramajayan P (2019), Chrysin restores MPTP induced neuroinflammation, oxidative stress and neurotrophic factors in an acute Parkinson's disease mouse model Volume 709, 2019, 134382 *Neuroscience Letters* [IF: 3.046]

PROJECTS HANDLED

- Investigating on antibacterial effect of Bismuth vanadate on Multi drug resistant Staphylococcus aureus infection funded by DST-SERB (GoI)- 26 Lakhs
- Prevalence and Awareness of Asthma Among Brick Kiln Workers and Households of Selected Areas in South India- An Empirical Study, Funded by Indian Council of Social Science Research (ICSSR) – 3. 76 Lakhs
- Optimization of membrane immobilized Nanoparticles for textile dye colour removal, Funded by Department of Biotechnology (DBT) – 14. 65 Lakhs (Co-PI)

Memberships in Professional Bodies

- Association of Microbiologist of India
- South Asian Journal of Political Sciences