Dr. S. VASANTHARAJ

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Personal Details

Father's Name
Mr. R. Seerangaraj

Date of Birth
28/02/1989

Nationality
Indian

Sex
Male

Martial Status
Single

CAREER OBJECTIVE

To work in a challenging and stimulating environment with dedication and innovation leading to a rewarding and growth-oriented career.

EDUCATIONAL QUALIFICATION

DEGREE	UNIVERSITY/ BOARD	YEAR OF PASSING	CLASS	PERCENTAGE OF MARKS	BRANCH
Ph.D	Bharathiar University, Coimbatore	2020	-	Degree Awarded	Biotechnology
M.Phil	Bharathiar University, Coimbatore	2015	First Class	66%	Biotechnology
M.Sc	Bharathiar University, Coimbatore	2011	First Class	74%	Biotechnology

RESEARCH INTEREST

- **Nanomedicine**: Biosynthesis of Metal and metal oxide nanoparticles and Biopolymer coated metal oxide composites (chitosan) for antibacterial activity against clinical pathogens (dental, wound and eye), anticancer activity and biomedical application.

- **Microbial biotechnology**: Production of multienzymes from microbes and Biodegradation of Plastic (PBSA).

- **Environmental applications:** Photo catalytic degradation of organic and inorganic dyes using polymer coated metal oxide nanoparticles.

LIST OF PUBLICATIONS

Sathiyavimal, S., **Vasantharaj, S**., Mattheos, N., Pugazhendhi, A., & Subbalekha, K. (2024). Mussel shell-derived biogenic hydroxyapatite as reinforcement on chitosan-loaded gentamicin composite for antibacterial activity and bone regeneration. ***International Journal of Biological Macromolecules***, *278*, 134143.

Selvam Sathiyavimal**, Seerangaraj Vasantharaj,** Kaliannan T, Brindhavei K, Arivalagan Pugazhendhi. Biofunctioalized copper oxide /chitosan nanocomposite using sida cardifolia and their efficient properties of antibacterial anticancer activity against breast and lung cancer. ***Environmental research,*** 218*, (*2023) 114986.

Selvam Sathiyavimal**, Seerangaraj Vasantharaj,** Kaliannan T, Chinnathambi T, ALharbi.SA, Arivalagan Pugazhendhi. *In situ* synthesis of HAp/CS-SA composite for effective removal of highly toxic dyes in aqueous solution under solar irradiation, ***Food and Chemical Toxicology***, 168, *(*2022) 113330**.**

Seerangaraj Vasantharaj, Selvam Sathiyavimal, Palanisamy Senthilkumar, V.N. Kalpana , Govindaraju Rajalakshmi, Arivalagan Pugazhendhi. Enhanced photocatalytic degradation of water pollutants using bio-green synthesis of zinc oxide nanoparticles (ZnO NPs)**. *Journal of Environmental Chemical Engineering*** 9, **(**2021) 105772**.**

Arivalagan Pugazhendhi, **Seerangaraj Vasantharaj**, Selvam Sathiyavimal, Ramalingam Karthik Raja, Indira Karuppusamy, Mathiyazhagan Narayanan, Sabariswaran Kandasamy, Kathirvel Brindhadevi.Organic and inorganic nanomaterial coatings for the prevention of microbial growth and infections on biotic and abiotic surfaces. ***Surface and Coatings Technology*****,** 425 **(**2021) 127739.

Karuppusamy Indira, Sabarathinam Shanmugam, Anjana Hari, **Seerangaraj Vasantharaj**, Selvam Sathiyavimal, Kathirvel Brindhadevi, Ahmad El Askary, Ashraf Elfasakhany, Arivalagan Pugazhendhi. Photocatalytic degradation of congo red dye using nickel–titanium dioxide nanoflakes synthesized by Mukia madrasapatna leaf extract. ***Environmental Research*****,** 202 (2021)111647.

Seerangaraj Vasantharaj, Pooja Shivakumar, Selvam Sathiyavimal, Palanisamy Senthilkumar, Seerangaraj Vijayaram, Muthiah Shanmugavel, Arivalagan Pugazhendhi. Antibacterial activity and photocatalytic dye degradation of copper oxide nanoparticles (CuONPs) using Justicia gendarussa. ***Applied Nanoscience,* (**2021)**.**

Seerangaraj Vasantharaj, Selvam Sathiyavimal, Sripriya Nannu Sankar, Jaya Ganesh Thiruvengadam Nandagopal, Pannerselvam Balashanmugam, Fahad A. Al-Misned, Muthiah Shanmugavel, Palanisamy Senthilkumar, and Arivalagan Pugazhendhi. Cytotoxic effects of silver nanoparticles on Ruellia tuberosa: Photocatalytic degradation properties against crystal violet and coomassie brilliant blue. ***Journal of Environmental Chemical Engineering,*** 9, (2021), 105088.

Sathiyavimal, **S., Seerangaraj Vasantharaj**, Veeramani, V., Saravanan, M., Rajalakshmi, G., Kaliannan, T., & Pugazhendhi, A. Green chemistry route of biosynthesized copper oxide nanoparticles using Psidium guajava leaf extract and their antibacterial activity and effective removal of industrial dyes. ***Journal of Environmental Chemical Engineering***, 9, (2021),105033.

Selvam Sathiyavimal, Seerangaraj **Vasantharaj,** Arivalagan Pugazhendhi, Kaliannan Thamariselvi Eco-biocompatible of chitosan coated biosynthesized copper oxide nanocomposite for enhanced industrial (Azo) dye removal from aqueous solution and their antibacterial properties. ***Carbohydrate Polymers,*** 241, 2020, 116243.

DECLARATION: I Hereby declare that the above given details are true to the best of my knowledge.

S. VASANTHARAJ