




Bharathiar University

State University | "A++" Grade by NAAC | 26th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr K SURESH Assistant Professor Department of Physics Bharathiar University Tamil Nadu E-mail: ksureshphy@buc.edu.in Phone: 4222428544 Office Number: 04222428544	
Research Area <ul style="list-style-type: none">• Environmental Control Plasma• Water Treatment & Synthesis of Nano/QD• Thermo-mechanical Processing of Alloys• Cold Plasma	Courses Teaching <ul style="list-style-type: none">• Modern Optics• Industrial Electronics• Advanced Physics• Plasma Physics
Research Experience:	Teaching Experience:
Research Credentials (as on March 2025 – Source: Google scholar) H-index: 1250 Citations: 21 i10-index: 30	
Patents : Filed: 1	
Publications International Journals: 52 Conferences: 14 Books/Chapters: 5	
Career Other Institutes 1. Designation : Post Doctoral Fellow Institution Name : City University of Hong Kong, Hong Kong SAR Period : October 2009 - September 2015 At Bharathiar University 1. Designation : Assistant Professor Period : October 2015 - Till Date	
Education Ph. D. Subject : Physics Institution : Bharathiar University, Coimbatore Affiliated University : Bharathiar University Year of Award : February 2009 M. Phil. Subject : Physics Institution : Bharathiar University, Coimbatore Affiliated University : Bharathiar University Year of Award : April 2005 M. Sc. Subject : Physics Institution : Sri Ramakrishna Mission Vidyalaya College of Arts & Science, Coimbatore Affiliated University : Bharathiar University Year of Award : April 2003	



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Dr K SURESH , Assistant Professor , Department of Physics

Projects

National Level

Ongoing - 1 completed - 4

Research Guidance

Completed

Ph.D. - 3

Patents

Filed - 1

1. Method for Bioremediating Heavy Metal from Solution using Microplasma Induced Bioadsorption 01-1970 202341006730 P.R. Sreedevi and K. Suresh

Selected Publications

1. Expeditious and single step synthesis of ceria quantum dots by Microplasma discharge method for supercapacitor applications

Materials Chemistry and Physics (2024) 129319 (April 2024)
E.R. Kavitha, S. Meiyazhagan, S. Yugeswaran, and K. Suresh*

2. Expeditive carbofuran pesticide degradation by submerged thermal plasma and its accelerated mineralization by persulfate addition

Environmental Pollution 347 (2024) 123779 (April 2024)
N. Thirumurugan, N. Nandy, P. Amarnath, S. Yugeswaran, K. Suresh*, N.K. Sujeeth, and M. Gnanadesigan

3. Accelerated degradation of 4-nitrophenol using microplasma discharge: Processes and mechanisms

Journal of Water Process Engineering 55 (2023) 104190 (October 2023)
S. Meiyazhagan, E.R. Kavitha, S. Yugeswaran, N. Santhanamoorthi, G. Jiang and K. Suresh*

4. Cold atmospheric plasma mediated cell membrane permeation and gene delivery-empirical interventions and pertinence

Advances in Colloid and Interface Science 319 (2023) 102989 (September 2023)
P.R. Sreedevi and K. Suresh*