




Bharathiar University

State University | "A⁺⁺" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr R VIVEK Assistant Professor Department of Zoology Bharathiar University Coimbatore, 641046 Tamil Nadu E-mail: vivekr@buc.edu.in Phone: 9787848308 Office Number: 0422-2428496	
Research Area <ul style="list-style-type: none">• Theranostic Nanomedicine• Targeted Photonic-Therapy• Immune-Boosted Nanotherapy	Courses Teaching <ul style="list-style-type: none">• Molecular Biology• Biotechnology and Bioethics• Proteomics and Molecular Cell Physiology• Biochemistry• Nanobiotechnology and Applications
Research Experience: 10	Teaching Experience: 6
Research Credentials (as on August 2025 – Source: Google scholar) H-index: 2247 Citations: 23 i10-index: 41	
Publications International Journals: 10	
Career At Bharathiar University 1. Designation : Assistant Professor Period : January 2019 - Till Date Other Institutes 1. Designation : Post Doctoral Fellow Institution Name : Biomedical Engineering, Shanghai Jiao Tong University Period : May 2013 - December 2017 2. Designation : Post Doctoral Fellow Institution Name : RGCB (DBT-Institute), Kerala Period : April 2018 - November 2018	
Education Ph. D. Subject : Zoology Institution : Bharathiar University Affiliated University : Bharathiar University Year of Award : May 2013 M. Sc. Subject : Zoology Institution : Bharathiar University Affiliated University : Bharathiar University Year of Award : April 2009 B. Sc. Subject : Zoology Institution : Govt. Arts College, Ooty Affiliated University : Bharathiar University Year of Award : April 2007	



Projects

National Level

Ongoing - 1 completed -

Research Guidance

Completed

Ph.D. - 3

Selected Publications

1. Advanced theranostic nanostructures of copper sulfide for precision cancer therapy and multimodal imaging

Materials Today Communications 47 (2025) 113244. (IF=4.5) (August 2025)
Karthikeyan Laxmanan, Raju Vivek, Namratha Partha Sarathy, Hyun Wook Kang

2. Recent progress in multifunctional theranostic inorganic nanomaterials for cancer diagnostic imaging and therapy

Next Nanotechnology, 2025, 100212 (July 2025)
Namratha Parthasarathy, Laxmanan Karthikeyan, Mary Fabiola, Raju Vivek*.

3. Biomolecule-based engineered nanoparticles for Cancer Theranostics

Coordination Chemistry Reviews, (2025), 216489. (IF-23.5) (June 2025)
Namratha Parthasarathy, Ramar Thangam, Babu Rithisa, Swathi Sudhakar, Krishnamurthy Shanthi, Hyunsik Hong, Malairaj Sathuvan, Mary Fabiola, Heemin Kang, Raju Vivek*

4. Serial stimuli-responsive theranostic nanomaterials for cancer therapy and imaging

Coordination Chemistry Reviews, (2025), 216897. (IF-23.5). (May 2025)
Malairaj Sathuvan, Karthikeyan Narayanan, Hyunsik Hong, Raju Vivek, Saiyi Zhong, Kit-Leong Cheong, Juyoung Yoon, Guosheng Song, Heemin Kang, Ramar Thangam

5. An overview on the use of non-Titanium MXenes for photothermal therapy and its combinational approach for the cancer treatment.

Nanoscale Advances, 2025. (IF=4.6). (January 2025)
Fathima Abdul Rahim, K Niyas, Soyeb Y Pathan, Raju Vivek, Pathath Abdul Rasheed.

6. Transformative Breakthrough in Cancer Phototherapy Utilizing Bioinspired Chemistry of Polydopamine-Based Multifunctional Nanostructures

Coordination Chemistry Reviews, 518, (2024), 216043. (IF-20.6) (July 2024)
Kumar Charu Nanthini, Ramar Thangam, Laxmanan Karthikeyan, Babu Rithisa, P. Abdul Rasheed, Sunhong Min, Heemin Kang, Nachimuthu Kannikaparameswari, Raju Vivek*

7. Multimodal Biomedical Utility of Polyaniline-based Supramolecular Nanomaterials

Chemical Engineering Journal, 493, (2024), 152530. (IF=15.1) (May 2024)
Laxmanan Karthikeyan, Babu Rithisa, Sunhong Min, Hyunsik Hong, Heemin Kang, Ramar Thangam, Raju Vivek*

8. Recent Progress in Smart Inorganic Mesoporous Silica-Based Nanovaccine for Cancer

Inorganic Chemistry Communications, 164 (2024) 112483. (IF-4.4) (May 2024)
Babu Rithisa, Karunanidhi Gowsalya, P Abdul Rasheed, Raju Vivek*

9. Engineered Photonic Near-Infrared Light Activated Photothermal Theranostic Nanovaccine Induce Targeted Remodeling of Tumor Microenvironment

Nanomedicine: Nanotechnology, Biology, and Medicine, 57 (2024) 102738. (IF-5.4) (February 2024)
Karunanidhi Gowsalya, Babu Rithisa, Yuvaraj Haldorai, Krishnamurthy Shanthi, Raju Vivek*

10. Tumor-Targeted Conjugated Polymer Promotes Photothermal Immunogenic Cell Death and Release of TLR-9 Immunostimulant Induced Efficient Cancer Immunotherapy

ACS-Applied Polymer Materials, 2023, 5:9, 7167-7179. (IF=5.0) (August 2023)
Laxmanan Karthikeyan, Pathath Abdul Rasheed, Yuvaraj Haldorai, Raju Vivek*



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