

Shri Shivaji Science College, Amravati

Name of The Teaching Faculty: **Rathod DP**

Department: **Physics**

Total No of Papers Published:04

Total No of papers inScopus/ WoS:04

S.N	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Details of Publication	Year of publication	ISSN number	Paper Scopus/ WoS indexed (Yes/No)	Direct Link to the Paper from Scopus/ WoS or Journal
1	Preparation of Polyindole-MnO ₂ /Reduced Graphene Oxide- based Ternary Composite System for Supercapacitive Application	R. V. Barde, K. R. Nemade, K. D. Jagtap, D. P. Rathod & S. A. Waghuley	Physics	Polymer-Plastics Technology and Materials	2023, VOL. 62, NO. 10, 1237–1246	2023	2574-0881	Scopus	https://doi.org/10.1080/25740881.2023.2204935
2	Optical Study of Graphene/Ti O ₂ nanocomposite by Ultraviolet-Visible Spectroscopy	D.P. Rathod, R.V. Barde, K. R.Nemade , S. A. Waghuley	Physics	Journal of Electrical Systems	J.Electrical SystemsVol - Issue(2024) :1-12	2024	1112-5209	Scopus	

3	Optimizing Photovoltaic Performance of DSSCs Through SnO ₂ -Loaded Polyindole Nanocomposites	R. V. Barde, K. R. Nemade, D. P. Rathod & S. V. Warudkar	Physics	Polymer-Plastics Technology and Materials	June 2025 64(15):2333-2344	2025	2574-0881	Scopus	https://doi.org/10.1080/25740881.2025.2522195
4	Effect of TiO ₂ concentration in graphene Oxide/TiO ₂ nanocomposites as photoanode on the performance of dye-sensitized solar cells	D. P. Rathod, R.V. Barde, K. R. Nemade, K. D. Jagtap & S. A. Waghuley	Physics	Materials Chemistry and Physics	Volume 357 , 1 June 2026, 132371	2026	2214-7861	Scopus	https://doi.org/10.1016/j.matchemphys.2026.132371