

DEPARTMENT OF PHYSICS

Summary of Publications for the Academic Year 2024-25

S.No	Details	SCI	SCIE	SCOPUS	WOS	UGC	OTHERS	Total
1	International Journals	6	3	4				13
2	National Journals							

Conferences and Book Chapters

S.No	Details	SCOPUS	SPRINGER	WOS	UGC	OTHERS	Total
1	National/International	1					1

Books

S.No	Details	National	International	TOTAL
1	Books/Book chapters	1		1

Patents

S.No	Details	TOTAL
1	Patents	1

Faculty Incharge

HOD,Physics

Vasavi College of Engineering (A)
Department of Physics
Academic Year 2024-25
(Research Publications Journals)-International
SCOPUS

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Mont h	Index No UGC/ Scopus
1	Dr G Ramadevudu	06	Venkatesh V, Sreenivasu D, Ravinder Reddy B, Shareefuddin Md, Ramadevudu G, and V. Prasad N	Electrical and Optical Studies on Lanthanum Bismuth Titanate Modified Boro-Bismuth Titanate Glass-Matrix	ECS Journal of Solid State Science and Technology,		2025 14 043011 April 24 ,2025	IOP Publishing SCOPUS
2	Dr G Ramadevudu	04	Sarap Krishnaprasad, Mohammed Shareefuddin , Siddey Laxmi Srinivasa Rao, Gokarakonda Ramadevudu	Structural investigation and physical properties of RO-ZnO-Li2B4O7-K2B4O7 (RO= SrO and BaO) glasses	Zastita Materijala	Scientific Paper ISSN 0351-9465, E-ISSN 2466-2585 https://doi.org/10.62638/ZasMat1147	18-07-2024	SCOPUS
3	Dr R Nagaraju	06	K. Ashok, P. Usha, Nagaraju R., T. Ramesh, N. Pavan Kumar and Ghassan M. Sulaiman ⁶	Multifunctional Characterization and Anticancer Properties of Magnetic Zinc Ferrite Nanoparticles by Modified Ultrasonic Assisted Co-precipitation Method	ECS Journal of Solid State Science and Technology	Published 30 August 2024 • © 2024 The Electrochemical Society ("ECS").	DOI 10.1149/2162-8777/ad71f2	IOP Publishing SCOPUS
4	Dr R Nagaraju	07	Nand Kishore Yadav, Damodar Reddy K., Swathi D., Nagaraju R., Sowjanya P., Prasanna Kumari K. N., Kumar Swamy N., Ramesh T. and Pavan Kumar N.	Effect of Ho ³⁺ Doping on Structural and Magnetic Properties of Multiferroic YbMnO ₃	ECS Journal of Solid State Science and Technology	Published 26 July 2024 • © 2024 The Electrochemical Society ("ECS"). Published on behalf of ECS by IOP Publishing	DOI 10.1149/2162-8777/ad6504	IOP Publishing SCOPUS

Department of physics

SCI

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	Index No UGC/ Scopus
1	Dr AS Sai Prasad	09	Mohamad Raheem Ahmed , Norah A.M. Alsaif , Nazima Siddiqui , A.S. Sai Prasad , Mudavat Srinivas , Shaik Kareem Ahmmad , Kawa M. Kaky , Abed Jawad Kadhim, Y.S. Rammah	Physical, thermal properties, FTIR and Raman spectroscopies as well as γ-ray attenuation capacity of borate glasses doped with Mn ²⁺ ions: Role of CaO/Al ₂ O ₃ substitution	Optical Materials	0925-3467/© 2024 Elsevier	<i>158 (2025) 116461</i> Available online 22 November 2024	https://doi.org/10.1016/j.optmat.2024.116461
2	Dr P V Rao	06	T. Ramesh , V. Madhavi , P. Venkateswara Rao , K. Vagdevi , Nagaraj Basavegowda , Kwang-Hyun Baek	Impact of ultrasonic-assisted co-precipitation synthesis and ultrasonication duration on cobalt ferrite nanostructures: A comparative study of structural, morphological, optical and magnetic properties	Inorganic Chemistry Communications	174 (2025) 114035	Available online 2 February 2025	https://doi.org/10.1016/j.inoche.2025.114035 Elsevier
3	Dr P V Rao	04	T. Ramesh a a,* , K. Ashok b , J. Naga Vishnu Vardhan c,** , P. Venkateswara Rao	Role of dysprosium incorporation on structural and magnetic properties of yttrium iron garnet for high power microwave device applications	Ceramics International	Volume 51, Issue 13, May 2025, Pages 18129-18139	Available online 31 January 2025	https://doi.org/10.1016/j.ceramint.2025.01.588 Elsevier

4	Dr G Ramadevudu	04	R. Nagaraju , G. Ramadevudu , L. Haritha , N. Pavan Kumar	Physical, optical, spectroscopic features of $\text{Li}_2\text{B}_4\text{O}_7\text{-Bi}_2\text{O}_3\text{-Sb}_2\text{O}_3$ glass system reinforced with molybdenum ions	Ceramics International	Elsevier	Available online 13 October 2024	https://doi.org/10.1016/j.ceramint.2024.10.177
5	Dr R Nagaraju	04	R. Nagaraju , G. Ramadevudu , L. Haritha , N. Pavan Kumar	Physical, optical, spectroscopic features of $\text{Li}_2\text{B}_4\text{O}_7\text{-Bi}_2\text{O}_3\text{-Sb}_2\text{O}_3$ glass system reinforced with molybdenum ions	Ceramics International	Elsevier	Available online 13 October 2024	https://doi.org/10.1016/j.ceramint.2024.10.177
6	Dr R Nagaraju	05	Ch. Srinivasa Ramanujan , R. Nagaraju , L. Haritha , K. Chandra Sekhar , Md. Shareefuddin	In-depth analysis of $\text{MoO}_3\text{-CaF}_2\text{-Bi}_2\text{O}_3\text{-B}_2\text{O}_3\text{-Cr}_2\text{O}_3$ glass system using physical, optical, Raman and FTIR characterizations	Optical Materials	Elsevier	Volume 158, January 2025, 116466	https://doi.org/10.1016/j.optmat.2024.116466

SCIE

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	Index No UGC/ Scopus
1	Dr AS Sai Prasad	7	P. N. K. Chaitanya, Dinkar Dantala, Naresh Degda, K. V. R. Murthy, M. Sree Ramana, P. Indira, A. S. Sai Prasad	Synthesis and photoluminescence studies of Sm^{3+} activated calcium tungstate phosphor for illuminating devices	Journal of Optics	https://doi.org/10.1007/s12596-024-02250-w	Published online 24 sep 2024	Springer
2	Dr AS Sai Prasad	9	P. N. K. Chaitanya, D. Dinkar, P. Indira, A. S. Sai Prasad, M. Sree Ramana, Vikas Dubey, Shireen Aman, Ovica Manners & K. V. R. Murthy	Photoluminescence studies of Ce^{3+} doped phosphors: down/up-conversion luminescence	Russian Physics Journal		Published: 08 April 2025 Volume 68 , pages 351–357, (2025)	Springer
3	Dr AS Sai Prasad	06	P. Chandar Rao ¹ , K. A. K. Durga Prasad ⁴ , A. S. Sai Prasad ² , N. Maramu ³ , C. J. Sreelatha ¹ , and D. Haranath ⁴	Eco-friendly and cost-effective synthesis approach with no waste generation in developing narrow-band and efficient blue-emitting Eu^{2+} doped $\text{BaMgAl}_{10}\text{O}_{17}$ nanophosphor	Journal of Materials Science: Materials in Electronics	30-06.2025	(2025) 36:1141	https://doi.org/10.1007/s10854-025-15220-

Vasavi College of Engineering (A)
Department of Physics
Academic Year 2024-25
(Research Publications Journals)-National

UGC CARE LIST

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	Index No UGC/ Scopus
1	NIL							

WOS

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	Index No UGC/ Scopus
1	NIL							

Conference Publications

Sl. No.	Name of the Faculty Author	Title of the Paper	Name of the Conference/Journal	Conference/Venue/Date	Index No UGC/ Scopus
1	P Samdani, K Chandra Sekhar, Asra Anjum, G Ramadevudu , Md Shareefuddin	Electron paramagnetic resonance studies on mixed alkaline earth oxide borotellurite glasses doped with Cu ²⁺ and VO ²⁺ transition metal ions	AIP Conference Proceedings	Proceedings of the 4th International Conference on Condensed Matter & Applied Physics AIP Conf. Proc. 3149, 080013-1–080013-7; https://doi.org/10.1063/5.0224774 Published under an exclusive license by AIP Publishing. 978-0-7354-5017-2/\$30.00	2024/8/19

S.No	Name of the Faculty	Patent name	Patent No.	Published/Granted month
1	Dr G Ramadevudu Assistant Professor(Sr)	ADJUSTABLE ROTARY FIXTURE ATTACHMENT TO ELECTRICAL DISCHARGE MACHINING (EDM) FOR IMPROVED METAL REMOVAL RATE (MRR)	Patent No.: 538526 Application No.: 202241027924 Date of Filing :15.05.2022	Granted/ 17.5.2024

Research Publications – Book & Book Chapters

Sl. No	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Book /Chapter	Name of the Publisher	ISBN Number	URL	Remarks
1	Dr G Ramadevudu	09	Dr G Ramadevudu	Book Chapter Open School Physics Vol II	Telangana open School society(TOSS),Hyd			