

DEPARTMENT OF PHYSICS

Summary of Publications for the Academic Year 2023-24

S.No	Details	SCI	SCIE	SCOPUS	WOS	UGC	OTHERS	Total
1	International Journals	1	6	2				9
2	National Journals				1	1		2

Conferences Proceedings

S.No	Details	SCOPUS	SPRINGER	WOS	UGC	OTHERS	Total
1	National/International	1	1				2

Books

S.No	Details	National	International	TOTAL
1	Books/Book chapters	2	-	2

Patents

S.No	Details	National	International	TOTAL
1	Patents	-	1	1

Faculty Incharge

HOD,Physics

Vasavi College of Engineering (A)
 Department of Physics
 Academic Year 2023-24
 (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/Month	Index No UGC/ Scopus
1	Dr G Ramadevudu	05	M. M. Ahmed Mahmoodi, Shaik Kareem Ahmmad, G. Ramadevudu, Y. S. Rammah & J. Laxman Naik	Structure, Radiation Shielding Characteristics, Bioactive Studies and Artificial Intelligence Density Prediction of Mixed Alkali B ₂ O ₃ -SiO ₂ -CaO-ZnO Glasses	Silicon (2023). https://doi.org/10.1007/s12633-023-02645-7		30 August 2023	Scopus
2	Dr AS Sai Prasad	05	Kishore Kumar Aitha ,Dantala Dinakar, K. V. R. Murthy, A.S. Sai Prasad,Divi Haranath	Studies on a novel SrZr ₂ CaLa ₂ O ₈ :Eu ³⁺ phosphor for lighting applications emitting direct white light	The Journal of Biological Chemical and luminescence	DOI: 10.1002/bio.4623	November 2023	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	06	Kishore Kumar Aithaa, Dinakar D, Indira P, Sai Prasad A.S, Murthy K.V.R, Haranath D.	A novel narrow-band red-emitting multi-layer phosphor for white – Light emitting devices	Results in Chemistry		Volume 6, Online Sep2023, 101100 https://doi.org/10.1016/j.rechem.2023.101100	SCI

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 A S Sai Prasad	7	Shaik Kareem Ahmad , G. Nataraju , Nazima Siddiqui , Mohammed Muza mmil Ahmed , M. A. Haleem Rizwan , Mohamad Raheem Ahmed,A. S. Sai Prasad	Machine learning refractive index model and nitrogen implantation studies of zinc arsenic tellurite glasses	Journal of the Australian Ceramic Society	https://doi.org/10.1007/s41779-023-00928-1	06 september 2023	springer
2	Dr AS Sai Prasad	07	Seema Thakur ^a , Vanita Thakur ^b , Lakhwant Singh ^c , Ahmad Fahad Ahmad ^d , Umar Sa'ad Aliyu ^e , Rabi u Abubakar Tafida ^f , A.S. Sai Prasad ^b	Thermo- and photoluminescent properties and gamma radiation shielding efficiency of NiO doped B ₂ O ₃ -Bi ₂ O ₃ glass system	Radiation Physics and Chemistry	Volume 216,111402	Available online 17 November 2023 https://doi.org/10.1016/j.radphyschem.2023.111402	SCIE
3	Dr G Ramadevudu	5	Bodige Narsimha, K Chandra Sekhar, Md Shareefuddin, M Narasimha Chary, Gokarakonda Ramadevudu	Influence of In ₂ O ₃ on Optical, EPR, and Structural Properties of Barium Borate Glasses Containing Cu ²⁺ Spin Probe	Brazilian Journal of Physics	DOI: https://doi.org/10.1007/s13538-023-01413-7	condensed Matter Published: 08 January 2024 Volume 54 , article number 40, (2024)	Springer US

4	Dr R Nagaraju	9	Ch. Srinivasa Ram anujan , Z. A. AlrowailiK. C handra Sekhar · Jamila S. Alzahrani, Md. Shareefuddin ,L. Haritha · I. O. Olarinoye · R. Nagaraju · M. S. Al-Buriah	Synthesis and Optimization of Bi ₂ O ₃ -B ₂ O ₃ -Cr ₂ O ₃ Glass System for Structural, Optical, and Radiation Shielding Properties	Journal of Electronic Materials	https://doi.org/10.1007/s11664-023-10613-5	9 Aug 2023	springer
5	Dr Vanita Thakur	07	Seema Thakur ^a , Vanita Thakur ^b , L akhwant Singh ^c , Ahmad Fahad Ahmad ^d , U mar Sa'ad Aliyu ^e , Rabi u Abubakar Tafida ^f , A.S. Sai Prasad ^b	Thermo- and photoluminescent properties and gamma radiation shielding efficiency of NiO doped B ₂ O ₃ -Bi ₂ O ₃ glass system	Radiation Physics and Chemistry	Volume 216,11140 2	Available online 17 November 2023 https://doi.org/10.1016/j.radphyschem.2023.111402	SCIE
6	Dr Vanita Thakur	03	Seema Thakur, Vanita Thakur & Rabiu Abubakar	An insight into the co- doping effect of d-d transitions of transition metal ions and hypersensitivity of rare- earth ions in multicomponent glass- system	Spectroscopy Letters An International Journal for Rapid Communication	Volume 57, 2024 - Issue 4 Pages 222- 236	Published online: 27 Apr 2024 https://doi.org/10.1080/00387010.2024.2346665	SCIE

Vasavi College of Engineering (A)
Department of Physics
Academic Year 2023-24
(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	Dr P. Venkateswara Rao	02	NANNAPARAJU VASUDHA1* and POLISETTYVENKA TESWARA RAO	Identification of Sources Causing Air Pollution in Indian Cities using Hierarchical Agglomerative Cluster Analysis	Current World Environment	ISSN: 0973-4929	Vol. 18, No. (2) SEP 2023, Pg. 580-588	UGC Care

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	Dr P. Venkateswara Rao	02	Polisetty Venkateswara Rao and Nannaparaju Vasudha	Hierarchical Agglomerative Cluster Analysis of Air Pollution over Andhra Pradesh and Telangana	Indian Journal of Natural Sciences	ISSN: 0976 – 0997	Vol.14 / Issue 80 / Oct / 2023	WOS

Vasavi College of Engineering (A)
Department of Physics
AY 2023-24
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	Dr P Venkateswara Rao	Telangana Air Pollution Stations Classification Using HACA	Proceedings of the 2nd International Conference on Cognitive and Intelligent Computing	ICCIC 2022, 27–28 December, Hyderabad, India; Volume 2 October 2023	Springer https://doi.org/10.1007/978-981-99-2746-3_9
2	Dr G. Ramadevudu	The physical, optical and EPR studies of PbF ₂ -Al ₂ O ₃ - Bi ₂ O ₃ -B ₂ O ₃ -CuO glasses	AIP Conference Proceedings , https://doi.org/10.1063/5.0167723	INTERNATIONAL CONFERENCE ON INNOVATIONS IN SCIENCE, HYBRID MATERIALS, AND VIBRATION ANALYSIS: ICISHVA2022 16–17 July 2022 Pune, India September 29 2023	Scopus 2839 (1) , 050004 (2023) AIP Publishing

Vasavi College of Engineering (A)
Department of Physics

AY 2023-24

Details of Patents

S.No	Name of the Faculty	Patent name	Patent No.	Published month
1	Dr A S Sai Prasad & Dr G Ramadevudu	A refractive index prediction system for analyzing nitrogen impanation of zinc-arsenic-tellurite glasses	File number DE: 20 2023 104 447.6	25.09.2023

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 P V Rao	04	Dr N Rakesh Chandra,Dr M.C Ajay Kumar,Dr P Vinay Kumar,Dr P Venkateswara Rao	Text Book of Engineering Physics	Scientific International publishing house(SIPH)	978-93-5757-331-3	www.sipinternationalpublishers.com	Edition First - 2023
2	Dr G Ramadevudu	09	Dr G Ramadevudu	Book chapter: General studies-I for competitive exams	Telugu Akademi, Hyd(National)	978-81-8180-781-6	Teluguakademi.telangana.gov.in	2024