

DEPARTMENT OF PHYSICS

Summary of Publications for the Academic Year 2022-23

S.No	Details	SCI	SCIE	SCOPUS	WOS	UGC	OTHERS	Total
1	International Journals	01	02	03	-	-	02	08
2	National Journals	-	-	-	01	02	01	04

Conferences and Book Chapters

S.No	Details	SCOPUS	SPRINGER	WOS	UGC	OTHERS	Total
1	National/International	02	02	-	-	01	05
2	Book Chapters	01	-	-	-	-	01

Books

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

Patents

S.No	Details	National	International	TOTAL
1	Patents	-	01	01

Faculty Incharge

HOD,Physics

Vasavi College of Engineering (A)
Department of Physics
Academic Year 2022-23
(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/ISS N Number	Vol/Mont h	Index No UGC/ Scopus
1	Dr AS Sai Prasad	5	CH V K N S N Moorthy , Aakanksha Srivastava , D. N. Vasundhara, V. Surya Narayana Reddy , A. S. Sai Prasad	Robotic Process Automation - The Ineluctable Virtual Workforce in Various Business Sectors: Post Covid-19 Scenario	International Journal of Engineering Trends and Technology	ISSN: 2231 – 5381 / https://doi.org/10.14445/22315381/IJETT-V71I3P215	Volume 71 Issue 3, 143-154, March 2023	Scopus
2	Dr P. Venkateswara Rao	2	N. Vasudha and P. Venkateswara Rao	Identification of Dominant Air Pollutants Over Hyderabad Using Principal Component Analysis (PCA)	Nature Environment and Pollution Technology An International Quarterly Scientific Journal	p-ISSN: 0972-6268 e-ISSN: 2395-3454	Vol. 21 No. 4 pp. 1673-1680 (2022) December	Scopus
3	Dr G Ramadevudu	04	Sarap Krishnaprasad, Md. Shareefuddin, M. Lakshmipathi Rao and G. Ramadevudu	Physical, Optical, and Spectroscopic Characteristics of Mixed Alkali Tetraborate Glasses RO–ZnO–Li ₂ B ₄ O ₇ -K ₂ B ₄ O ₇ : Impact of Alkaline Earth Oxides (R = Mg, Ca)	<u>ECS Journal of Solid State Science and Technology.</u>	DOI 10.1149/2162-8777/acd1b3	<u>Volume 12, Number 5</u> 10th May 2023	Scopus

SCI

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISS N Number	Vol/Mont h	Index No UGC/ Scopus
1	Dr P. Venkateswara Rao	6	Salauddin Mohamad · Gopa Dutta · M. C. Ajay Kumar · P. V. Rao · P. Vinay Kumar · Krishna Ete	Seasonal effects of atmospheric waves over tropical tropopause using radiosonde observations at Hyderabad, India	Meteorology and Atmospheric Physics	134:83	https://doi.org/10.1007/s00703-022-00918-1 24 Aug 2022	SCI

SCIE

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISS N Number	Vol/Mont h	Index No UGC/ Scopus
1	Dr Vanita Thakur	4	Seema Thakur , Umar Saad Aliyu , Lakhwant Singh Vanita Thakur	Effect of Er ³⁺ ions on the structural, optical and Judd-Ofelt (JO) intensity parameters of (Bi ₂ O ₃ -BaTiO ₃) glass system and their application as fiber-amplifier	Materials Chemistry and Physics	Volume 292, 1 December 2022, 126782	https://doi.org/10.1016/j.matchemphys.2022.126782	SCIE
2	Dr Vanita Thakur	5	Seema Thakur , Vanita Thakur , Rajesh Punia , Sajjan Dahiya , Lakhwant Singh	An insight into the temperature-dependent dielectric dispersion and conduction mechanisms in BaTiO ₃ modified bismuth borate glass-ceramic system	Journal of Non-Crystalline Solids	Volume 606, 15 April 2023, 122184	https://doi.org/10.1016/j.jnoncrysol.2023.122184	SCIE

OTHERS/NON REFERRED

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ISS N Number	Vol/Mont h	Index No UGC/ Scopus
1	Dr G Ramadevudu	04	B.Narsimha, K. Chandrasekhar, Md. Shareefuddin G. Ramadevudu*	EPR, FTIR and Raman spectroscopic characterization of Indium barium borate glasses containing Manganese ions	IOSR Journal of Applied Physics	e-ISSN: : 2278-4861	Vo.12 Issue. 2 March 2023	Others
2	Dr G Ramadevudu	03	Sarap Krishnaprasad, Md. Shareefuddin, and Gokarakonda Ramadevudu	Computation of Optical Energy Band Gaps of Double Alkali Tetraborate Glasses Containing Alkaline Earth Oxide	Scope		13 (1) pp 711-722 01/03/2023	Others

Vasavi College of Engineering (A)
Department of Physics
Academic Year 2022-23
(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/ISS N Number	Vol/Mont h	Index No UGC/ Scopu s
1	Dr P. Venkateswara Rao	2	NANNAPA RAJU VASUDHA and POLISETTY VENKATESWAR A RAO	Factor Analysis of Air Pollutants over Hyderabad – A Case Study	Current World Environment	ISSN: 0973-4929,	Vol. 17, No. (2) 2022, Pg 1-9, Sep	UGC Care
2	Dr P. Venkateswara Rao	3	P. Vinay Kumar, M.C. Ajay Kumar, P. Venkateswara Rao*	QUANTITATIVE ASSESSMENT OF AIR POLLUTION OVER HYDERABAD USING PRINCIPAL COMPONENT ANALYSIS: BEFORE, DURING AND AFTER THE COVID-19 LOCKDOWN	Juni Khyat UGC Care Group I Listed Journal)	ISSN: 2278-4632	Vol-13, Issue-02, No.03, February 2023	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/ISS N Number	Vol/Mont h	Index No UGC/ Scopu s
1	Dr P. Venkateswara Rao	2	Nannaparaju Vasudha and Polisetty Venkateswara Rao	Assessment of Air Pollution Sources in Hyderabad City using Multilinear Regression	Indian Journal of Natural Sciences	ISSN: 0976 – 0997	August 2022	Web of Science

OTHERS/NON-REFERRED

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	01	P. Venkateswara Rao	Seasonal Effects on Air Pollution in Andhra Pradesh and Telangana using Factor Analysis	International journal of analytical and experimental modal analysis	ISSN NO: 0886-9367	Volume XIV, Issue VIII, August/2022 Pg 864-874	Others

Vasavi College of Engineering (A)
Department of Physics
AY 2022-23
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 A S Sai Prasad	Synthesis of Eu doped Ca Al ₂ O ₄ and Photoluminescence studies	International seminar on luminescence materials(ISLM2022)	Organized at house boat, Backwaters of Allepy ,kerala 9-10 Dec 2022	Others
2	Dr P V Rao	Classification of air pollution stations of telangana using HACA	Two day international conference on emerging trends in commerce management languages science and technology	25-26 nov 2022	Springer
3	Dr P V Rao	Telangana air pollution stations classification using HCA	2nd International Conference on Cognitive and Intelligent Computing (ICCIC)	27-28 December 2022, Vasavi College of Engineering, Hyderabad, India	Springer
4	Dr G Ramadevudu	Physical, EPR and optical studies of SrO-ZnO-Na ₂ B ₄ O ₇ -CuO glass system	AIP Conference Proceedings 2779, https://doi.org/10.1063/5.0142556	4th International Conference on Sustainable Manufacturing, Materials and Technologies, 11–12 June 2022	0094243X, 15517616, impact factor 0.414 10 May 2023 scopus
5	Dr G Ramadevudu	Copper doped strontium Indium-borate glasses: FTIR, Raman, EPR, optical and structural studies,	2nd International Conference on Multifunctional Materials (ICMM-22) Materials Today: Proceedings,	Available online 19 May 2023	https://doi.org/10.1016/j.matpr.2023.05.185 2214-7853, Scopus

**Vasavi College of Engineering
Department of Physics**

Academic Year 2022-23

**R & D and Consultancy
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 Vanita Thakur	04	Preeti Redhu, Preeti Sharma, Geeta Sharma, Vanita Thakur, Manju Bala, Rajesh Punia	Progress and prospects of sensors	Multifaceted Bio-sensing Technology Academic Press	Volume 4 in Bio electrochemical Systems: The way forward 2023, Pages 13-30, ISBN 978-0-323-90807-8	https://doi.org/10.1016/B978-0-323-90807-8.00010-5 ,11.11.2022	

Details of Patents

S.No	Name of the Faculty	Patent name	Patent No.	Published month
1	Dr G Ramadevudu Assistant Professor(Sr)	A METHOD FOR PREDICTING THE DENSITY OF OXIDE AND FLUORIDE GLASSES USING ARTIFICIAL INTELLIGENCE TECHNIQUES	2023/02828	2023/05/31 REPUBLIC OF SOUTH AFRICA