Sr. No.	Publication details of PHYSICS Department (last five years)					
	3.4.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years (5)					
	3.4.3.1: Number of research papers in the Journals notified on UGC website during the last five years					
	Title of paper	**Name of the author/s**	**Department of the teacher**	**Name of journal**	**Year of publication**	**ISSN number**
1	Highly Photoresponsive Visible Light Photodetector using Nano PbS Thin Film on Paper	Pooja M Khanzode, **Jagdish W Dadge**, Kashinath A Bogle	Physics	Optik Journal, vol. 226, pages 165933, 2021	2021	0030-4026
2	Development of highly sensitive and ultra-fast visible-light photodetector using nano-CdS thin film	Devidas I Halge, Jagdish W Dadge, Janez Kovac, Kashinath A Bogle	Physics	Applied Physics A, Vol 127, Issue 6, pages 1-11, 2021	2021	0947-8396 (print) 1432-0630 (web)

3	TiO2 Nanotube Hydroxyapatite Nanocomposite as Methanol Sensor	Sabah Taha, **Jagdish W Dadge**, Megha P Mahabole, Rajendra S Khairnar, Kashinath A Bogle	Physics	**Macromolecular Symposia, Vol, 400 Issue 1, pages 2100039, 2021.**	2021	1521-3900
4	**Enhancing alcohol sensing properties of hydroxyapatite via synthesis of its composite with TiO2 nano-tube**	Sabah Taha, Jagdish W Dadge, Megha P Mahabole, Rajendra S Khairnar, Kashinath A Bogle	**Physics**	**Applied Physics A, Vol, 127, Issue 7, Pages 1-9, 2021.**	**2021**	0947-8396 (print) 1432-0630 (web)
5	Hydroxyapatite-Graphene Oxide Nanocomposite with Enhanced Ammonia Sensing Property	Sumayya Begum, **Jagdish W. Dadge**, Kashinath A Bogle	**Physics**	Macromolecular Symposia, Vol, 400 Issue 1, Pages 2100165, 2021.	2021	1521-3900
6	Synthesis and Raman spectrum of SnO_2 particles	M S Phalak	**Physics**	JETIR/Vol8,Issue 11, Nov 2021,	2021	ISSN: 2349-5162
7	Chemically Synthesized ZnO and Cd-ZnO thick films as Ethanol Sensor	Y. S. Patil	**Physics**	IOP Conf. Ser.: Materials Science and Engineering. P.1126, 2021.	2021	
8	CuInGaSe2 (CIGS) thin film on flexible Mo substrates from non-aqueous one-step electrodeposition process	SV Desarada, PU Londhe, S Chaure, NB Chaure	Physics	Journal of Materials Science: Materials in Electronics 33 (1), 203-216	2021	
9	Highly Photoresponsive Visible Light Photodetector using Nano PbS Thin Film on Paper	Pooja M Khanzode, Devidas I Halge, Vijaykiran N Narwade, Jagdish W Dadge,	Physics	Optik Journal 165933 (2020)	2020	
10	Enhancement in Visible Light Photoresponse of CdS Thin Film by Nitrocellulose Surface Passivation	Devidas I Halge, Jagdish W Dadge,	Physics	ACS Applied Electronic Materials, 2020	2020	

11	Organic surfactant assisted polypyrene materials as effective chemoreceptive gas sensors for VOCs and toxic gas detection	S. S. Scindia, R. B. Kamble & J. A. Kher	Physics	IEEE Sensors Journal, 20 (23), 14072-14080 (2020)	2020	
12	Resistive switching characteristics of Pt/TiO2/Al structure under optical illumination	Jagdish W Dadge,	Physics	AIP Conference Proceedings 2269 (1), 030066	2020	
13	Utilization of spray coated nano-crystalline cadmium sulfide thin film for photo-detector application	Jagdish W Dadge,	Physics	AIP Conference Proceedings 2269 (1), 030105	2020	
14	Titanium dioxide nanostructure based alcohol vapor sensor	Jagdish W Dadge,	Physics	IP Conference Proceedings 2220 (1), 020195	2020	
15	Spray coated nano-crystalline lead sulfide thin film for photo-detector application	Jagdish W Dadge,	Physics	AIP Conference Proceedings 2220 (1), 020021	2020	
16	Development of nano-TiO2/Al electrode for non-enzymatic glucose bio-sensing application	Jagdish W Dadge,	Physics	AIP Conference Proceedings 2220 (1), 020003	2020	
17	MEH-PPV/CdS Hybrid Nanowire Polymer Solar Cell Array	Dr. S. N. Chaure	Physics	Journal of Electronic Materials 48, 1074(2019)	2019	
18	Nickel ferrite/polypyrrole core-shell composite as an efficient electrode material for high-performance supercapacitor	S.S. Scindia, R. B. Kamble and J.A. Kher	Physics	AIP Advances, 9 (5), 055218	2019	

19	Highly stable switching and long retention property of spin coated ZnO thin film for resistive non-volatile memory application	KD More, VN Narwade, DI Halge, JW Dadge, RS Khairnar, KA Bogle	Physics	Materials Research Express 6 (9), 096429	2019	
20	Use of Ground-Penetrating Radar (GPR) as an Effective Tool in Assessing Pavements—A Review	L. V. Bhandarkar	Physics	Geotechnics for Transportation Infrastructure, 85-95	2019	
21	Room temperature ferromagnetic behavior in the nanocrystals of Fe doped ZnO synthesized by soft chemical route	L. V. Bhandarkar	Physics	Materials Science-Poland 37 (3), 364-372	2019	
22	TDDFT Studies on Sheet Size-Dependency of Optoelectronic Properties of 2D Silicon	MD Raiyan Alam, Ganesh Alwarappan, Aashka Bhandari,Sunil Patil, Sherin Alfalah, Mohamed F Shibl, Walid MI Hassan, Reza Nekovci, Amit Verma	Physics	2018 IEEE 13th Nanotechnology Materials and Devices Conference (NMDC) Pages 1-4 2378-377X	2018	
23	TDDFT Investigation of the Hybrid Organic Inorganic Perovskite: CH3NH3PbC3	Ganesh Alwarappan, Aashik Padmanabachary, Md Raiyan Alam, Aashka Bhandari, Sunil Patil, RJeyakumar, Mohamed F Shibl, Walid MI Hassan, Reza Nekovei, Amit Verma	Physics	2018 IEEE 13th Nanotechnology Materials and Devices Conference (NMDC) 2378-377X	2018	

24	Tuning spin one channel to exotic orbital two-channel Kondo effect in ferrimagnetic composites of LaNiO3 and CoFe2O4	Patra Ananya, K. Maity, R. B. Kamble, V. Prasad	Physics	Journal of Physics: Condensed matter 30, 2018/4/13	2018	
25	Nano-crystalline TiO2 thin film: Synthesis and investigation of its optical switching characteristics	K.A. Bogle, K.D. More, Jagdih W. Dadge, M.P. Mahabole, R.S. Khairnar	Physics	Thin Solid Films Vol 653 (2018)	2018	
26	Nano-Crystalline CdS Thick Films: A Highly Sensitive Photo-Detector	Shivaji Munde, Nilesh Shinde, Pooja Khanzode, Maithilee Budrukkar, Pooja Lahane, J. W. Dadge	Physics	Materials Research Express Vol 5,No. 6, 2018.	2018	
27	Charge transport through DNA based electronic barriers	Sunil R Patil,Vivek Chawda, Jianqing Qi, MP Anantram, Niraj Sinha	Physics	AIP Conference Proceedings 1953, 140148 (2018)doi.org/10.1063/1.5033323	2018	
28	Investigation of the effect of Manganese doping in CdS nanocrystalline thin films	Dr. S. N. Chaure	Physics	Materials Research Express, 6,2(2018)	2018	
29	**"A technique for sensing organic compounds using fluorescence maximum shift in laser dyes "**	Jagdish W. Dadge, Deepak	Physics	Journal of Lasers, Optics and Photonics, Vol, 4, Issue, 3, pages 1-4, 2017.	2017	
30	"Nano-crystalline TiO2 thin film: Synthesis and investigation of its optical switching characteristics"	K.A. Bogle, K.D. More, Jagdih W. Dadge, M.P. Mahabole, R.S. Khairnar	Physics	Thin Solid Films Vol 653 (2018) Pages 62–66	2017	

31	Influence of structural evolution on the magnetic behavior of the nanocrystals of Fe-doped ZnO synthesized by soft chemical route	Lata V. Bhandarkar	Physics	Appl. Phys. A (2017) 123:627 DOI 10.1007/s00339-017-1236-3	2017	
32	Investigation on the effect of Cu-doping to ZnTe layers by low-cost electrochemical approch	Shweta Chaure	Physics	DOI 10.1007/s10854-017-6990-7 Volume 28, Issue 16, pp 11823–11831	2017	
33	Studies on the Structural, Thermal, Fluorescence and Linear–Non-linear Optical Properties of Glycine Sodium Acetate Single Crystal for ElectroOptic Device Applications	N. N. Shejwal, S. S. Hussaini, R. B. Kamble, M Anis, MD Shirsat	Physics	Recent Trends in Materials Science and Applications, Springer, SPPHY, volume 189, 493-501, (May 2017)	2017	
34	Synthesis and characterization of vertically aligned cadmium	Shweta Chaure	Physics	Journal of Material Science, Materials in Electronics; 28(1832) 2017	2017	
35	Field emission properties and strong localization effect in conduction mechanism of nanostructured perovskite LaNiO3	R. B. Kamble, Narendra Tanty, Ananya Patra, V. Prasad	Physics	Applied Physics Letters, (AIP Publishing), Volume 109, 8, 083102 Aug 22, (2016)	2016	
