

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years (8)

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Link of the recognition in UGC enlistment of the Journal	UGC notified No.
Solvent effect on neutral Co (II) complexes of paeonol derivative—qualitative and quantitative studies from energy frame work and Hirshfeld surface analysis	Maheshkumar K Patel, UH Patel, Sahaj A Gandhi , VM Barot, Jatin Jayswal	Physics	Journal of Molecular Structure	2019	00222860	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	24642
Luminescent behavior of pyrene-allied calix[4]arene for highly pH selective recognition and determination of Zn ²⁺ , Hg ²⁺ and I ⁻ via CHEF-PET mechanism: Computational experiment and paper based device	Pinkesh G Sutariya, Heni N Soni, Sahaj A Gandhi , Alok Pandya	Physics	New Journal of Chemistry	2019	ISSN 1369-9261	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	24824

<p>Novel tritopic calix [4] arene CHEF-PET fluorescence paper based probe for La³⁺, Cu²⁺, and Br⁻: Its computational investigation and application to real samples</p>	<p>Pinkesh G Sutariya, Heni Soni, Sahaj A Gandhi, Alok Pandya</p>	<p>Physics</p>	<p>Journal of Luminescence</p>	<p>2019</p>	<p>ISSN: 0022-2313</p>	<p>https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx</p>	<p>12179</p>
<p>Role of weak intermolecular interactions in molecular structure of 2-(2-chlorophenyl)-5-methyl-4-phenylamino-2, 4-dihydropyrazole-3-one: Hirshfeld surface & Energy frame work analysis</p>	<p>Sahaj A. Gandhi, Shreelatha Nair, Urmila H. Patel, Mohammed Dawood and R D Modh</p>	<p>Physics</p>	<p>International Journal for Research in Engineering Application & Management (IJREAM)</p>	<p>2019</p>	<p>ISSN : 2454-9150</p>	<p>https://www.ijream.org/UGC/Welcome%20to%20UGC,%20New%20Delhi,%20India.html</p>	<p>64077</p>
<p>Molecular Docking, Pharmacophore Modelling And 3d Qsar Analysis Of Novel Chalcone Derivatives</p>	<p>S. A. Gandhi , V. M. Barot, M. C. Patel, T. J. Malek and U. H. Patel</p>	<p>Physics</p>	<p>International Journal of Pharmaceutical Sciences and Research</p>	<p>2019</p>	<p>ISSN : 0975-8232,</p>	<p>https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx</p>	<p>21100873114</p>

Structural analysis and charge transfer properties of a novel pyrazoline derivative: potential energy scan, XRD, DFT and molecular docking studies	Sahaj A. Gandhi Urmila H. Patel, V. M. Barot, N. V. S. Varma	Physics	Indian Journal of Physics	2019	ISSN: 0974-9845	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	145208
Novel luminescent paper based calix [4] arene chelation enhanced fluorescence- photoinduced electron transfer probe for Mn ²⁺ , Cr ³⁺ and F	Pinkesh G Sutariya, Heni Soni, Sahaj A Gandhi, Alok Pandya	Physics	Journal of Luminescence	2019	ISSN: 0022-2313	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	10179
Single-step fluorescence recognition of As ³⁺ , Nd ³⁺ and Br ⁻ using pyrene-linked calix [4] arene: application to real samples, computational modelling and paper-based device	Pinkesh G Sutariya, Heni Soni, Sahaj A Gandhi, Alok Pandya	Physics	New Journal of Chemistry	2019	ISSN 1369-9261	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	24824

<p>Crystal structure, Hirshfeld surface analysis and energy frame work of 4-chloro phenyl) (p-tolyl) methyl) piperazin 1-yl) (5H-dipyrido [3, 2-b: 2', 3'-f] azepin-5-yl) methanone, a novel fused di-pyrido azepin derivative</p>	<p>Sahaj A. Gandhi, Shreelatha Nair and Urmila H. Patel</p>	<p>Physics</p>	<p>International Journal for Research in Engineering Application & Management (IJREAM)</p>	<p>2018</p>	<p>ISSN : 2454-9150</p>	<p>https://www.ijream.org/UGC/Welcome%20to%20UGC,%20New%20Delhi,%20India.html</p>	<p>64077</p>
<p>Spectroscopic and Optical analysis of Eosin doped Strontium Tartrate Crystals Grown by Gel Growth Technique</p>	<p>Sahaj A. Gandhi and Vimal Joshi</p>	<p>Physics</p>	<p>International Journal for Research in Engineering Application & Management (IJREAM)</p>	<p>2018</p>	<p>ISSN : 2454-9150</p>	<p>https://www.ijream.org/UGC/Welcome%20to%20UGC,%20New%20Delhi,%20India.html</p>	<p>64077</p>
<p>Crystal structure and Hirshfeld surface analysis of methyl 4-[(E)-2-(5-bromo-2-methoxy-benzylidene)hydrazinyl]-3-nitro-benzoate</p>	<p>Tanvirbanu J Malek, Sahaj A Gandhi, Vijay Barot, Mukesh Patel, Urmila H Patel</p>	<p>Physics</p>	<p>Acta Crystallographica Section E: Crystallographic Communications</p>	<p>2018</p>	<p>ISSN: 2056-9890</p>	<p>https://ugccare.unipune.ac.in/site/Website/CareList.aspx</p>	<p>21100427192</p>

<p>Synthesis and x-ray powder diffraction studies: metal complexes (co(ii), ni(ii) and cu(ii)) of schiff base ligand 4-bromo-2-chloro-6-[(1z)- n-(phenyl) ethanimidoyl] phenol</p>	<p>V M Barot, U. H. Patel J G Jaiswal, S A Gandhi, T J Padariya</p>	<p>Physics</p>	<p>PRAJÑĀ :Journal of Pure and Applied Sciences</p>	<p>2017</p>	<p>ISSN 0975 2595</p>	<p>https://www.spuvvn.edu/academics/publications/PRAJANA-%20Call%20for%20papers_15-6-2017.pdf</p>	<p>48135</p>
<p>Optical and magnetic properties of schiff based transition metal complexes of (z)-5-(methoxy methoxy)-2-(1-(phenylimino)ethyl) phenol) and (z)-2-bromo-4-chloro-6-(1-((4-nitrophenyl) imino)ethyl)phenol derivatives</p>	<p>Kaushik P. Chaudhary, Bhavesh N. Socha Jatin G. Jayswal, Sahaj A. Gandhi, U. H. Patel, Vijay M. Barot, Mahesh K. Patel, Khushbu K. Lalvani, Sachin B. Pandya</p>	<p>Physics</p>	<p>PRAJÑĀ :Journal of Pure and Applied Sciences</p>	<p>2017</p>	<p>ISSN 0975 2595 UGC APPROVED JOURNAL (No. 48135)</p>	<p>https://www.spuvvn.edu/academics/publications/PRAJANA-%20Call%20for%20papers_15-6-2017.pdf</p>	<p>48135</p>
<p>Quantum Chemical Calculations (Ab Initio & DFT), Hirshfeld Surface Analysis, Crystal Structure and Molecular Docking Study of 2-Chloro-4-(4-fluoro-phenyl)-6-isopropyl-pyrimidine-5-carboxylic Acid Methyl Ester</p>	<p>Sahaj A. Gandhi,Urmila H. Patel, Rajesh D. Modh,Yogesh Naliyapara and Anil S. Patel</p>	<p>Physics</p>	<p>Journal of Chemical Crystallography</p>	<p>2016</p>	<p>ISSN: 1074-1542 (Print) / 1572-8854 (Online)</p>	<p>https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx</p>	<p>24701</p>

A comparative study of novel chalcone derivative by X-ray and quantum chemical calculations (Ab-initio and DFT): Experimental and theoretical approach	U. H. Patel, S. A. Gandhi, V.M. Barot and N.V.S.Varma	Physics	Molecular Crystals and Liquid Crystals	2016	Print ISSN: 1542-1406 Online ISSN: 1563-5287	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	24711
A quantitative analysis of weak intermolecular interactions & quantum chemical calculations (DFT) of novel chalcone derivatives	Bhavin R. Chavda, Sahaj A. Gandhi, Rahul P. Dubey, Urmila H. Patel, and Vijay M. Barot	Physics	International Conference on Condensed Matter and Applied Physics	2016	ISBN: 978-0-7354-1375-7		
Gel Growth, Powder XRD and FTIR Study of Magnesium Levo-Tartrate Crystals	Mayuri P. Dave, Sahaj A. Gandhi, Vimal Joshi	Physics	International Journal of Innovative Research in Science, Engineering and Technology	2016	ISSN (Online): 2319-8753		
Synthesis, X-Ray Powder Diffraction Study & Antimicrobial Activities of 1-(4-Butoxy 2-Hydroxyphenyl) Ethylidene-3,4 Dimethoxy benzohydrazide	V. M. BAROT, S. A. GANDHI, and M. C. PATEL	Physics	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH	2015	PRINT ISSN NO 2277 - 8179		
Synthesis, X-Ray Powder Diffraction Studies and Antimicrobial Activities of Novel Schiff Base Derivatives	V. M. BAROT, S. A. GANDHI, U. H. PATEL and M. C. PATEL	Physics	Chemical Science Transactions	2015	ISSN: 2278-3318 (Online); ISSN:2278-3458 (Print)		
Novel stereoselective 2,3-disubstituted quinazoline-4(3H)-one derivatives derived from glycine as a potent antimalarial lead	Tarosh S. Patel, Satish F. Vanparia, Sahaj A. Gandhi, Urmila H. Patel, Ritu B. Dixit, Chaitanya J. Chudasamad and Bharat C. Dixit	Physics	New Journal of Chemistry	2015	ISSN 1369-9261	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	24824

Pd doped SiO ₂ nanoparticles: an efficient recyclable catalyst for Suzuki, Heck and Sonogashira reactions	Deepali A. Kotadia, Urmila H. Patel, Sahaj Gandhi and Saurabh S. Soni	Physics	RSC Advances Royal Society of Chemistry	2014	Online only: ISSN 2046-2069	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	21100199840
Synthesis, Spectroscopic Investigations, Quantum Chemical Studies (Ab-initio & DFT) and Antimicrobial Activities of 3-(3-Chloro-4,5-dimethoxy-phenyl)-1-(4, 5-dimethoxy-2-methyl-Phenyl) prop-2-en-1-one	U. H. Patel, S. A. Gandhi, V.M. Barot and M. C. Patel	Physics	Crystal Structure Theory and Applications (CSTA)	2013	ISSN Print: 2169-2491 ISSN Online: 2169-2505		
Synthesis, characterizations, molecular structure and DFT studies of 4-benzylidene-2-(2-chloro-phenyl)-5-methyl-2, 4-dihydro-pyrazol-3-one	U. H. Patel, S. A. Gandhi, B.D. Patel, R. D. Modh, R.H. Patel, J. Yadav, K R Desai	Physics	Indian Journal of Pure and Applied Physics	2013	ISSN: 0975-1041(Online)	https://ugccar.e.unipune.ac.in/site/Website/CareList.aspx	28036
Synthesis, X-Ray Diffraction Study And Biological Study Of Novel (3-Bromophenyl) Chalcone Derivative	V. M. Barot, S. A. Gandhi, U. H. Patel & M. C. Patel	Physics	International Journal of Physics and Research	2013			

1-[3-(2-benzyloxy-6-hydroxy-4-methyl-phenyl)-5-(3,5-bis-trifloromethyl - phenyl)-4, 5-dihydro-pyrazol-1-yl]- propane-1-one	U. H. Patel, S. A. Gandhi, V.M. Barot and N.V.S.Varma	Physics	Acta Crystallographica Section E.	2013		https://ugccare.unipune.ac.in/site/Website/CareList.aspx	21100427192
Synthesis, X-ray diffraction study and Antimicrobial study of 1-(4-butoxy-2-hydroxyphenyl)-3-(2,5-dimethoxyphenyl) prop-2-en-1-one	V.M. Barot, Sahaj A. Gandhi, Anil Mahato and N.B.Mehta	Physics	International Journal of Scientific and Research Publications	2013			
3-(2-Chloro-3 -hydroxyl- 4-Methoxy-phenyl)-1-(4, 5-dimethoxy- 2 -methyl-phenyl) propenone	U. H. Patel, S. A. Gandhi, V.M. Barot and M. C. Patel	Physics	Acta Crystallographica Section E.	2012		https://ugccare.unipune.ac.in/site/Website/CareList.aspx	21100427192
Quantum Chemical studies on Crystal Structures of Sulfacetamide and Sulfasalazine	U. H. Patel and Sahaj A. Gandhi	Physics	Indian Journal of Pure and Applied Physics	2011		https://ugccare.unipune.ac.in/site/Website/CareList.aspx	28036