

Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science, Satara
(Autonomous)
Department of Chemistry
Research Publications

Sr. No.	Publication Details
2023	
1	A Review On Mycoprotein As An Alternative Source Of Meat Protein Pujari SS, Phare P, Mahadik AV, Jadhav AS, Kadam AD, , Pawar BS <i>Bulletin of Environment Pharmacology and Life Sciences</i> , 1 (2023) 73 ISSN: 2277-1808, UGC Care II https://bepls.com/spl(1)2023.html
2	Agar Supported NiO NPs: A Sustainable Approach for synthesis of 3,4-dihydropyrimidin-2 (1H)-Ones in Aqueous Hydrotropic Media Attar SR, Sapkal AC, Dhane NS, Kamble SB <i>Catalysis Letters</i> , 2023 ISSN: 1011-372X, Scopus Indexed, Impact Factor: 2.8 https://link.springer.com/article/10.1007/s10562-023-04375-2
3	Antimicrobial Activity Of Lantana Camara On Hospital-Acquired Infectious Pathogens Kadam AD, Sarkale AR, Bangar SP, Pawar BS, Jadhav AS, Ghorpade VM, Survase AA, Zambare PB, Kadam SS, Babar BM, Shaikh SB, Kokate GD <i>Bulletin of Environment Pharmacology and Life Sciences</i> , 1 (2023) 264 ISSN: 2277-1808, UGC Care II https://bepls.com/spl(1)2023.html
4	Gel entrapped ZnO nanorods: An efficient and sustainable catalyst for the Claisen-Schmidt condensation reaction in aqueous hydrotropic media Attar SR, Sapkal AC, Bagade CS, Mujawar SH, Kamble SB <i>Molecular Catalysis</i> , 542 (2023) 113120 ISSN: 2468-8231, Scopus Indexed, Impact Factor: 5 https://www.sciencedirect.com/science/article/abs/pii/S2468823123002067?via%3Dihub
5	Microbial Evaluation Of Cosmetic Products Chavan M, Jadhav A, Kadam A, Chavan P, Ghorpade V, Utekar G, Karpude T , Pawar B <i>Bulletin of Environment Pharmacology and Life Sciences</i> , 1 (2023) 536 ISSN: 2277-1808, UGC Care II https://bepls.com/spl(1)2023.html

6	<p>Recent Catalytic Advancements in Organic Transformations Using Biogenically Synthesized Palladium Nanoparticles Dhumal K, Dateer R & Mali A <i>Catalysis Letters</i>, 2023 ISSN: 1572-879X, Scopus Indexed, Impact Factor: 2.8 https://link.springer.com/article/10.1007/s10562-022-04258-y</p>
7	<p>Synthesis of Bi-doped titanium oxide by chemical bath deposition for dye synthesized solar cell application Kamble AA, Jadhav AL, Ghanwat VB, Jadhav SL, Gaikwad DS, Nadargi JD, Bhuse DV, Bhuse VM <i>Inorganic Chemistry Communications</i>, 152 (2023) 110681 ISSN: 1387-7003, Scopus Indexed, Impact Factor: 3.4 https://www.sciencedirect.com/science/article/abs/pii/S1387700323002939?via%3Dihub</p>
2022	
8	<p>A Novel Recyclable Bi-Mg-O Composite Nano-Catalyst Promoted Rapid and Efficient Synthesis of Spirooxindole and 4H-Pyran Derivatives Mulik A, Ghanwat V, Hegade P, Mali M, Kim D-Y, Sung Lee D, Shahzad A, Shinde S, Rajmane M <i>Polycyclic Aromatic Compounds</i>, 43 (2022) 6665 ISSN: 1040-6638, Scopus Indexed, Impact Factor: 2.7 https://www.tandfonline.com/doi/abs/10.1080/10406638.2022.2124280</p>
9	<p>An aqueous hydrotropic solution as environmentally benign reaction medium for organic transformations: a short review Kamat S, Indi Y, Kumbhar AS, Kamble SB <i>Research on Chemical Intermediates</i>, 48 (2022) 5045 ISSN: 9226-168X, Scopus Indexed, Impact Factor: 3.4 https://link.springer.com/article/10.1007/s11164-022-04761-2</p>
10	<p>Clean and Green Approach for Synthesis of Various Derivatives of [1,3]Oxazine in Sustainable Aqueous Hydrotropic Medium Sapkal A, Attar S, Kadam A, Gaikwad P, Kamble S <i>Polycyclic Aromatic Compounds</i>, 43 (2022) 7719 ISSN: 1040-6638, Scopus Indexed, Impact Factor: 2.7 https://www.tandfonline.com/doi/abs/10.1080/10406638.2022.2139732</p>
11	<p>Fluorescence Enhancement Based Quantification of Human Serum Albumin from Biological Sample Using Indole Based Nanosuspension: Molecular Interactions and Molecular Docking Studies Suryawanshi SB, Desai NK, Bodake AJ, Patil SR <i>Journal of Fluorescence</i>, 32 (2022) 293 ISSN: 1573-4994, Scopus indexed, Impact Factor: 2.5 https://doi.org/10.1007/s10895-021-02847-5</p>
12	<p>One-drop organocatalyzed multicomponent synthesis of pyrazolo[1,2-b]phthalazine-diones and pyrazolophthalaziny quinolines Barge M, Rashinkar G, Kanase D, Mohite S & Lohar T <i>Research on Chemical Intermediates</i>, 48 (2022) 5045 ISSN: 1568-5675, Scopus Indexed, Impact Factor: 3.4 https://link.springer.com/article/10.1007/s11164-022-04848-w</p>

13	<p>Recent advances in nanoparticles towards sustainability and their application in organic transformations in aqueous media Attar SR, Kamble SB <i>Nanoscale</i>, 14 (2022) 16761 ISSN: 2040-3364, Scopus Indexed, Impact Factor: 8.3 https://pubs.rsc.org/en/content/articlelanding/2022/NR/D2NR04148K</p>
14	<p>The Eggshell Waste Transformed Green and Efficient Synthesis of K-Ca(OH)₂ Catalyst for Room Temperature Synthesis of Chalcones Tanpure S, Ghanwat V, Shinde B, Tanpure K, Lawande S <i>Polycyclic Aromatic Compounds</i>, 42 (2022) 1322 ISSN: 1040-6638, Scopus Indexed, Impact Factor: 2.7 https://www.tandfonline.com/doi/abs/10.1080/10406638.2020.1776740</p>
2021	
15	<p>In water exploration of Alpinia zerumbet-fabricated CuO NPs in the presence of NaPTS at room temperature: green synthesis of 1,8-dioxooctahydroxanthene derivatives Shinde B, Kamble S, Jadhav H, Mane P, Khude K, Kim H, Karale B, Burungale A <i>Research on Chemical Intermediates</i>, 47 (2021) 1221 ISSN: 9226-168X, Scopus Indexed, Impact Factor: 3.4 https://link.springer.com/article/10.1007/s11164-020-04351-0</p>
16	<p>Magnesium Oxide Nanoparticles Facilitates One Pot Wittig Reaction for the Synthesis of Ethyl (2E)-3-(2-chloroquinolin-3-yl)prop-2-enoate Derivatives Hangarge RV, Patil SS, Indore PB, Kanade KG <i>Chemistry & Biology Interface</i>, 11 (2021) 171 ISSN: 2249 -4820, UGC Care https://cbijournal.com/paper-archive/september-october-2021-vol-5/Research-Paper-5.pdf</p>
17	<p>Structural and Morphological Characterization of Ni_{1-x}CoxO-SDC NanoPowder Synthesized by Glycine - Nitrate Combustion Synthesis for Its Application in IT-SOFC Patil BB, Mali AR <i>International Journal of Scientific Research in Science and Technology</i>, 8 (2021) 126 ISSN: 2395-602X, Peer Reviewed, Open access https://www.ijrst.com/IJSRST21810030</p>
2020	
18	<p>Enhanced catalytic activity of bio-fabricated ZnO NPs prepared by ultrasound-assisted route for the synthesis of tetraketone and benzylidenemalonitrile in hydrotropic aqueous medium Attar SR, Shinde B, Kamble SB <i>Research on Chemical Intermediates</i>, 46 (2020) 4723 ISSN: 9226-168X, Scopus Indexed, Impact Factor: 3.4 https://link.springer.com/article/10.1007/s11164-020-04233-5</p>

19	<p>Greener and Environmentally Benign Methodology for the Synthesis of Pyrazole Derivatives Sapkal A, Kamble S <i>ChemistrySelect</i>, 5 (2020) 12971 ISSN: 2365-6549, Scopus Indexed, Impact Factor: 2.3 https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202003008</p>
20	<p>Microwave enhanced green and convenient synthesis of 2-amino-4H-chromenes in aqueous hydrotropic medium Gaikwad P, Kamble S <i>Current Research in Green and Sustainable Chemistry</i>, 3 (2020) 100014 ISSN: 2666-0865, Scopus Indexed, Impact Factor: 5.3 https://www.sciencedirect.com/science/article/pii/S2666086520300175</p>
21	<p>Nanostructured N doped TiO₂ efficient stable catalyst for Kabachnik-Fields reaction under microwave irradiation Kunde SP, Kanade KG, Karale BK, Akolkar HN, Arbuj SS, Randhavane PV, Shinde ST, Shaikh MH, Kulkarni AK <i>RSC Advances</i>, 46 (2020) 231 ISSN: 2046-2069, Scopus Indexed, Impact Factor: 4 https://pubs.rsc.org/en/content/articlelanding/2020/ra/d0ra04533k</p>
22	<p>Photoelectrochemical (PEC) Investigation of Ga-Doped MoBi₂Se₅ Thin Films Deposited by Arrested Precipitation Technique Patil SV, Ghanwat VB, Pawar NB, Bhosale PN <i>Macromolecular Symposia</i>, 393 (2020) 1900210 ISSN: 1022-1360, Scopus Indexed, Impact Factor: 0.2 https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.201900210</p>
23	<p>Sodium toluene-4-sulfonate as a reusable and ecofriendly catalyst for greener synthesis of 5-aminopyrazole-4-carbonitrile in aqueous medium Sapkal A, Kamble S <i>Journal of Heterocyclic Chemistry</i>, 57 (2020) 3597 ISSN: 0022-152X, Scopus Indexed, Impact Factor: 2.5 https://onlinelibrary.wiley.com/doi/abs/10.1002/jhet.4077</p>
24	<p>Superhydrophobic Coating Using TiO₂ NPs/PMHS Composite for Self-Cleaning Application Sutar RS, Manadeshi SD, Latthe SS, Kulal SR, Salunkhe GD, Rangar KK, Lavate RA, Raut SB, Sapkal AC, Bhosale AK, Sadasivuni KK, Liu S, Xing R <i>Macromolecular Symposia</i>, 393 (2020) 2000033 ISSN: 1022-1360, Scopus Indexed, Impact Factor: 0.2 https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202000033</p>
25	<p>Synthesis, characterization, and photoelectrochemical performance of nanocrystalline ternary MoxBi(2~x)Se₃ mixed metal chalcogenide thin films Patil SV, Ghanwat VB, Mali SS, Mane RM, Hong CK, Bhosale PN <i>Journal of Materials Science: Materials in Electronics</i>, 31 (2020) 18135 ISSN: 9574-522X, Scopus Indexed, Impact Factor: 2.9 https://link.springer.com/article/10.1007/s10854-020-04363-x</p>

2019	
26	<p>An Investigation of Fluorescence Resonance Energy Transfer between Tryptophan and Quinine Sulphate Mahanwar ST, Patil SR, Naik VM, Wakshe SB, Anbhule PV, Kolekar GB <i>Macromolecular Symposia</i>, 387 (2019) 1800204 ISSN: 1022-1360, Scopus Indexed, Impact Factor: 0.2 https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.201800204</p>
27	<p>Bentonite - Clay - Supported Cuprous Iodide Nanoparticles (BENT- CuI NPs): A New Heterogeneous Catalyst in Diversity - Oriented Synthesis of 1, 2, 3-Triazoles in Aqueous Medium Chavan PV, Charate SP, Desai UV, Rode CV, Wadgaonkar PP <i>Chemistry Select</i>, 4 (2019) 7144 ISSN: 2365-6549, Scopus Indexed, Impact Factor: 2.3 https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.201900421</p>
28	<p>Click chemistry based multicomponent approach in the synthesis of spirochromenocarbazole tethered 1,2,3-triazoles as potential anticancer agents Chavan PV, Desai UV, Wadgaonkar PP, Tapase SR, Kodam KM, Choudhari A, Sarkar D <i>Bioorganic Chemistry</i>, 85 (2019) 475 ISSN: 1090-2120, Scopus Indexed, Impact Factor: 5.1 https://www.sciencedirect.com/science/article/abs/pii/S0045206818303213</p>
29	<p>Exploration of Fluorescence Quenching Mechanism in Tryptophan Induced by Norfloxacin: Analytical Applications Mahanwar ST, Patil SR, Naik VM, Waghmare RD, Anbhule PV, Kolekar GB <i>Macromolecular Symposia</i>, 387 (2019) 1800208 ISSN: 1022-1360, Scopus Indexed, Impact Factor: 0.2 https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.201800208</p>
30	<p>One-pot three-component synthesis and photophysical properties of highly fluorescent novel 4-alkyl-3-aryl-2,6-dicyanoanilines by using tris(hydroxymethyl)aminomethane as a catalyst Kudale AS, Kamble SB, Gore AH, Pisal MM, Salokhe AT, Kolekar GB, Helavi VB <i>Chemical Data Collections</i>, 10 (2019) 432 ISSN: 2405-8300, Scopus Indexed, Impact Factor: 0.2 https://www.sciencedirect.com/science/article/pii/S2405830018302039</p>
31	<p>Photoelectrochemical performance of MoBiGaSe5 thin films deposited by vacuum deposition technique Patil SV, Ghanwat VB, Mandhare RY, Kondalkar VV, Bhosale PN <i>Journal of Materials Science: Materials in Electronics</i>, 30 (2019) 17612 ISSN: 9574-522X, Scopus Indexed, Impact Factor: 2.9 https://link.springer.com/article/10.1007/s10854-019-02110-5#:~:text=The%20deposited%20MoBiGaSe5%20thin,and%20used%20for%20further%20characterizations.</p>

32	<p>Sodium acetate/MWI: a green protocol for the synthesis of tetrahydrobenzo[α]xanthen-11-ones with biological screening Mane PU, Shinde BS, Mundada P, Gawade V, Karale B, Burungale AS <i>Research on Chemical Intermediates</i>, 46 (2019) 231 ISSN: 1568-5675, Scopus Indexed, Impact Factor: 3.4 https://link.springer.com/article/10.1007/s11164-019-03945-7</p>
33	<p>Synthesis and characterization of nanostructured Cu-ZnO: An efficient catalyst for the preparation of (E)-3-styrylchromones Kunde SP, Kanade KG, Karale BK, Akolkar HN, Randhavane PV, Shinde ST <i>Arabian Journal of Chemistry</i>, 12 (2019) 5212 ISSN: 1878-5352, Scopus Indexed, Impact Factor: 6 https://doi.org/10.1016/j.arabjc.2016.12.015</p>
34	<p>Synthesis, characterization and application of nanocrystalline CdZn(SeTe)₂ thin films for energy application Bagade CS, Ghanwat VB, Kamble SB, Bhosale PN <i>AIP Conference Proceedings</i>, 1989 (2019) 30003 ISSN: 1551-7617, Scopus Indexed https://doi.org/10.1063/1.5047721</p>
2018	
35	<p>Enhancement in thermoelectric performance of Cu₃SbSe₄ thin films by In(III) doping; synthesized by arrested precipitation technique Ghanwat VB, Mali SS, Bagade CS, Khot KV, Desai ND, Hong CK, Bhosale PN <i>Journal of Materials Science: Materials in Electronics</i>, 29 (2018) 8793 ISSN: 9574-522X, Scopus Indexed, Impact Factor: 2.9 https://link.springer.com/article/10.1007/s10854-018-8896-4</p>
36	<p>Ion-Pair Based Solvent Extraction of Rhodium (III) from Malonate Medium Using 4-heptylaminopyridine as an Extractant: Application to Alloys and Environmentally Relevant Matrices Khogare BT, Barache UB, Gaikwad SH, Anuse MA, Piste PB, Kokare BN <i>Analytical Chemistry Letters</i>, 8 (2018) 230 ISSN: 2229-7928, Scopus Indexed https://www.tandfonline.com/doi/abs/10.1080/22297928.2018.1449663</p>
37	<p>Novel catalytic application of Ni@ZnO nanoparticles and ZnO nanoflakes in aqueous solution of NaPTS hydrotrope at room temperature via a green synthesis of 3,4-dihydropyrimidin-2(1H)-ones Shinde B, Kamble S, Gaikwad P, Ghanwat V, Tanpure S, Pagare P, Karale B, Burungale A <i>Research on Chemical Intermediates</i>, 44 (2018) 3097 ISSN: 9226-168X, Scopus Indexed, Impact Factor: 3.4 https://link.springer.com/article/10.1007/s11164-018-3295-2</p>
38	<p>Novel Synthesis and Antimicrobial Activities of Thiazino-Oxazine Derivatives Piste PB <i>International Journal of Pharmaceutical Sciences and Drug Research</i>, 10 (2018) 206 ISSN: 0975-248X, UGC Care https://ijpsdr.com/index.php/ijpsdr/article/view/597</p>

39	<p>pH-Transformed ZnO-NPs /NaPTS: The First Room-Temperature Brisk Synthesis of Flavanones in Aqueous Medium Shinde B, Kamble SB, Pore DM, Gosavi P, Gaikwad A, Jadhav HS, Karale BK, Burungale AS <i>Chemistry Select</i>, 3 (2018) 13197 ISSN: 2365-6549, Scopus Indexed, Impact Factor: 2.3 https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.201802189</p>
40	<p>Structural, morphological, and magnetic properties of $Zn_xCo_{1-x}Fe_2O_4$ ($0 \leq x \leq 1$) prepared using a chemical co-precipitation method Powar RR, Phadtare VD, Parale VG, Park HH, Pathak S, Kamble PR, Piste PB, Zambare DN <i>Ceramics International</i>, 44 (2018) 20782 ISSN: 1873-3956, Scopus indexed, Impact Factor: 5.2 https://www.sciencedirect.com/science/article/abs/pii/S0272884218321382</p>
41	<p>Synthesis and characterization study of dual phase mixed zinc cobalt ferrite nanoparticles prepared via chemical co-precipitation method Powar RR, Gadkari AB, Piste PB, Zambare DN <i>Advanced Materials Proceedings</i>, 3 (2018) 517 ISSN: 2002-4428, Peer Reviewed, Open access https://amp.iaamonline.org/article_16174.html</p>
42	<p>Synthesis of tin sulphide thin film by simple arrested precipitation technique for solar cell application Joshi MP, Khot KV, Ghanwat VB, Kharade SD, Bagade CS, Desai ND, Patil SS, Bhosale PN <i>AIP Conference Proceedings</i>, 1989 (2018) 020015 ISSN: 1551-7616, Scopus Indexed https://doi.org/10.1063/1.5047691</p>
43	<p>The Calotropis procera Transformed Green NiO and Fe-NiO Nanoparticles for Diaryl Pyrimidinones Synthesis in Hydrotropic Medium at Room Temperature Shinde B, Kamble SB, Jadhav HS, Karale BK, Kanade KG, Burungale AS <i>ChemistrySelect</i>, 3 (2018) 13140 ISSN: 2365-6549, Scopus Indexed, Impact Factor: 2.3 https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.201802374</p>