



Shiksha Mandals's  
Bajaj College of Science, Wardha



\*Research and Promotion Cell\*

List of Research Papers in the Journals Notified on UGC-Care List since 2017  
(Updated on August-2021)

Year	No. of Publication	
	National	International
2017-2018	0	6
2018-2019	0	6
2019-2020	0	9
2020-2021	0	14

2017-2018

Title of Paper	Name of the Author/s	International / National	Name of Journal	Year	ISBN/ISSN Number	Link of the Publication
1. Double Catalytic Kinetic Resolution (DOCKR) of Acyclic Anti-1,3 Diols: The Additive Horeau Amplification	J. Merad, <b>Prashant Borkar</b> , F. Caijo, J.-M. Pons, J.-L. Parrain, O. Chuzel, and Cyril Bressy*	International	Angewandte Chemie International Edition, <b>2017</b> , 56, pp 16052 –16056	2017	1433-7851	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201709844">https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201709844</a> (Impact Factor: 15.34)
2. Carbon Allocation And Partitioning In Populus Tremuloides Are Modulated By Ectomycorrhizal Fungi Under Phosphorus Limitation	S. Shinde, D. Naik and J. R. Cumming	International	Tree Physiology, <b>2017</b> , 38 (1), pp 52-65	2017	0829-318X	<a href="https://academic.oup.com/treephys/article/38/1/52/4265245">https://academic.oup.com/treephys/article/38/1/52/4265245</a> (Impact Factor:4.196)
3. Enhanced Catalytic Activity Without The Use Of An External Light Source Using Microwave-Synthesized CuO Nanopetals	G. Lakhotiya, S. Bajaj, A. K. Nayak, D. Pradhan, P. Tekade and A. Rana	International	Beilstein Journal of Nanotechnology, <b>2017</b> , 8, pp 1167–1173.	2017	2190-4286	<a href="https://www.beilstein-journals.org/bjnano/articles/8/118">https://www.beilstein-journals.org/bjnano/articles/8/118</a> (Impact factor: 2.612)
4. Synthesis Of Diethyl 4-(Phenyl-Substituted)-2,6-Dimethyl-1,4	S. D. Bajaj, O. A. Mahodaya, P. V. Tekade*, V. B. Patil,	International	Russian Journal of General Chemistry, <b>2017</b> ,	2017	1070-3632	<a href="https://sci-hub.se/10.1134/S1070363217030264">https://sci-hub.se/10.1134/S1070363217030264</a>

Dihydropyridine-3,5-Dicarboxylates Catalyzed By $\text{CoCl}_2/\text{K-10}$ Montmorillonite In Water And Their Antimicrobial Activity	and S. D. Kukade		87 (3), pp 546–549.			(Impact factor: 0.868)
5. Microwave Assisted Fast Synthesis Of CuO Nanoflakes: Catalytic Application In The Synthesis Of 1, 4-Dihydropyridine	S. Bajaj, P. Tekade, G., Lakhotiya, and P. Borkar	International	Acta Physica Polonica A, 2017, 132 (4), pp 1294-1300.	2017	0587-4246	<a href="https://www.semanticscholar.org/paper/Microwave-Assisted-Fast-Synthesis-of-CuO-Catalytic-Bajaj-Tekade/0ed697fd417c645b52c6004bb145dfc323d0b37">https://www.semanticscholar.org/paper/Microwave-Assisted-Fast-Synthesis-of-CuO-Catalytic-Bajaj-Tekade/0ed697fd417c645b52c6004bb145dfc323d0b37</a> ( Impact factor: 0.643)
6. In Vitro Binding Study Of 4HDDD To BSA At Physiological Ph: Acoustical And Thermodynamic Study	A. Pisudde, P. Tekade, S. Thakare, P. Bodkhe and S. Petare	International	Heterocyclic Letters <b>2018</b> , 8 (2), pp 367-373	2018	(print) 2231-3087, (online) 2230-9632	<a href="http://heteroletters.org/issue82/Paper-14.pdf">http://heteroletters.org/issue82/Paper-14.pdf</a> <a href="https://bit.ly/3F9Rw20">https://bit.ly/3F9Rw20</a>

### 2018-2019

Title of Paper	Name of the Author/s	International / National	Name of Journal	Year	ISBN/ ISSN Number	Link of the Publication
1. Enhancement Of Photovoltaic Performance Of Polyaniline/Graphene Composite-Based Dye-Sensitized Solar Cells By Adding $\text{TiO}_2$ Nanoparticles	K. Nemade, P. Dudhe, P. Tekade	International	Solid State Sciences, <b>2018</b> , 83, pp 99–106	2018	1293-2558	<a href="https://app.dimensions.ai/details/publication/pub.1105683385?and_facet_journal=jour.1137238">https://app.dimensions.ai/details/publication/pub.1105683385?and_facet_journal=jour.1137238</a> (Impact Factor: 2.434)
2. Strengthening Of Photovoltaic And Supercapacitive Properties Of Graphene Oxide-Polyaniline Composite By Dispersion Of $\alpha\text{-Al}_2\text{O}_3$ Nanoparticles	K. Nemade, P. Tekade, P. Dudhe	International	Chemical Physics Letters, <b>2018</b> , 706, pp 647–651	2018	0009-2614	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0009261418305633">https://www.sciencedirect.com/science/article/abs/pii/S0009261418305633</a> (Impact Factor: 2.029)
3. Proton/Metal–Ligand Stability Constants Of Complexes Of Sr (II), Cr (II), And Al (III) With N-Phthaloyl Aminoacid And Benzimidazole Derivatives In Dioxane–Water Mixture	P. V. Tekade, S. Bajaj, B. Tale, N. R. Titirmarea, and P. Bandwa	International	Russian Journal of Physical Chemistry A, <b>2018</b> , 92 (12): pp 2596-2599	2018	0036-0244	<a href="https://sci-hub.se/10.1134/s0036024418120427">https://sci-hub.se/10.1134/s0036024418120427</a> (Impact Factor: 0.581)

4. Specific Molecular Interactions Of Dihydropyridine Moiety In Polar And Non-Polar Solvents At Various Concentrations And Temperatures 303–318 K On Ultrasonic Data	P. V. Tekade, B. U. Tale, S. D. Bajaja, and N. Authankara	International	Russian Journal of Physical Chemistry A, <b>2018</b> , 92 (12), pp 2488-2496	2018	0036-0244	<a href="https://sci-hub.se/10.1134/s0036024418120415">https://sci-hub.se/10.1134/s0036024418120415</a> (Impact Factor: 0.581)
5. Stability Constants Of Complexes Of Cr (II) And Sr (II) With Quinazoline And Dihydropyridine In Dioxane–Water Mixture On Spectrophotometric Data	P. V. Tekade, S. D. Bajaj, B. U. Tale, N. Authankara and S. Sadmake	International	Russian Journal of Physical Chemistry A, <b>2018</b> , 92 (11), pp 2187-2190	2018	0036-0244	<a href="https://sci-hub.se/10.1134/s0036024418110419">https://sci-hub.se/10.1134/s0036024418110419</a> (Impact Factor: 0.581)
6. In Vitro Study Of Interactions Of Carboxamide Derivatives Of Amino Acid With BSA: Ultrasonic Interferometer	S. B. Thakare, P. V. Tekade*, A. M. Pisudde and S. Pande	International	Orbital: The Electronic Journal of Chemistry, <b>2018</b> , 10 (5), pp 418-422	2018	1984-6428	<a href="http://www.orbital.ufm.br/index.php/Chemistry/article/view/1161">http://www.orbital.ufm.br/index.php/Chemistry/article/view/1161</a> (Cite Score: 0.7)

## 2019-2020

Title of Paper	Name of the Author/s	International / National	Name of Journal	Year	ISBN/ ISSN Number	Link of the Publication
1. Efficient Valorization Of Waste Glycerol To 2, 3-Butanediol Using Enterobacter Cloacae TERI BD 18 As A Biocatalyst	A. Priya and B. Lal	International	Fuel (Elsevier) <b>2019</b> , 250 (15), pp 292-305	2019	0016-2361	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0016236119305290">https://www.sciencedirect.com/science/article/abs/pii/S0016236119305290</a> (Impact Factor: 5.578)
2. Eu <sup>3+</sup> And Dy <sup>3+</sup> Activated LaAlO <sub>3</sub> Phosphor For Solid-State Lighting	S. K. Ramteke, A. N. Yerpude, N. S. Kokode, V. V. Shinde and S. J. Dhoble.	International	Journal of Materials Science: Materials in Electronics, <b>2020</b> , 31 (8), pp 6506–6509	2020	1573-482X, 0957-4522	<a href="https://link.springer.com/article/10.1007%2Fs10854-020-03208-x">https://link.springer.com/article/10.1007%2Fs10854-020-03208-x</a> (Impact Factor 2.376)
3. Synthesis Of RE <sup>3+</sup> (RE <sup>3+</sup> = Ce <sup>3+</sup> , Dy <sup>3+</sup> , Eu <sup>3+</sup> And Tb <sup>3+</sup> ) Activated Gd <sub>2</sub> SiO <sub>5</sub> Optoelectronics Materials For Lighting	V. V. Shinde, Ashish Tiwari, and S. J. Dhoble	International	Journal of Molecular Structure, <b>2020</b> , 1217, pp 128397	2020	0022-2860	<a href="https://sci-hub.se/10.1016/j.molstruc.2020.128397">https://sci-hub.se/10.1016/j.molstruc.2020.128397</a> (Impact factor: 2.011)
4. Luminescence Study Of LiMgBo <sub>3</sub> :Dy For γ-Ray And Carbon Ion Beam	M. Yerpude, V. Chopra, N. S. Dhoble, R. M.	International	Luminescence, <b>2019</b> , 34 (8), pp 933-944	2019	1522-7243	<a href="https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.">https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.</a>

Exposure	Kadam, and A. Krupski					<a href="https://doi.org/10.1002/bio.3694">1002/bio.3694</a> (Impact factor: 1.855)
5. Ultrasonic Investigations On Molecular Interactions Of N-Phthaloyl Compounds In Protic And Non-Protic Solvents At 303–318 K.	P. Tekade, B. Tale, and S. Bajaj.	International	Russian Journal of Physical Chemistry A, <b>2019</b> , 93 (9), pp 1703-1707	2019	0036-0244	<a href="https://scihub.se/10.1134/s0036024419090188">https://sci-hub.se/10.1134/s0036024419090188</a> (Impact factor: 0.719)
6. Prospective Of Monascus Pigments As An Additive To Commercial Sunscreens	S. H. Koli, R. K. Suryawanshi, B. V. Mohite, and S. V. Patil	International	Natural Product Communication , <b>2019</b> , 14 (12), pp 1-7	2019	1555-9475	<a href="https://journals.sagepub.com/doi/pdf/10.1177/1934578X19894095">https://journals.sagepub.com/doi/pdf/10.1177/1934578X19894095</a> (Impact Factor: 0.554)
7. Synthesis And Luminescence Properties Of La <sub>2</sub> O <sub>2</sub> S: RE <sup>3+</sup> (RE <sup>3+</sup> =Ce <sup>3+</sup> , Dy <sup>3+</sup> , Eu <sup>3+</sup> And Tb <sup>3+</sup> ) Submicron Size Phosphors For Lamp Industry	V. V. Shinde and S. J. Dhoble	International	International Journal of Innovative Technology and Exploring Engineering, <b>2020</b> , 9 (4), pp 1898-1907	2020	2278-3075	<a href="https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1657029420.pdf">https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1657029420.pdf</a> (Cite Score: 0.6)
8. A Promising Sr <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Br:RE <sup>3+</sup> (RE <sup>3+</sup> =Dy <sup>3+</sup> , Eu <sup>3+</sup> , And Tb <sup>3+</sup> ) Phosphors For Near UV Excited White LED And Display Devices	V. V. Shinde, S. J. Dhoble	International	International Journal of Innovative Technology and Exploring Engineering (IJITEE), <b>2020</b> , 9 (4), pp 2062-2067	2020	2278-3075	<a href="https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1386029420.pdf">https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1386029420.pdf</a> (Cite Score: 0.6)
9. Synthesis Of Dy <sup>3+</sup> , Eu <sup>3+</sup> And Tb <sub>3+</sub> Activated Y <sub>2</sub> O <sub>2</sub> S Optoelectronic Phosphors For N-UV LED Applications	V. V. Shinde, S. J. Dhoble	International	International Journal of Innovative Technology and Exploring Engineering (IJITEE), <b>2020</b> , 9 (4), pp 2068-2074	2020	2278-3075	<a href="https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1412029420.pdf">https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1412029420.pdf</a> (Cite Score: 0.6)

Title of Paper	Name of the Author/s	International / National	Name of Journal	Year	ISBN/ ISSN Number	Link of the Publication
1. Copper Supported MgAlhydrotalcite Derived Oxide Catalyst For Enol Carbamates Synthesis Via CH Bond Activation Of Formamides	R.Vishwakarma, C. Gadipelly, A. Nakhate, G. Deshmukh, L. K. Mannepalli	International	Catalysis Communications <b>2020</b> , 147, pp 106150	2020	1566-7367	<a href="https://www.sciencedirect.com/science/article/pii/S1566736720302260?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1566736720302260?via%3Dihub</a>  (Impact Factor- 3.612)
2. Graphene Based Nano-Composites For Efficient Energy Conversion And Storage In Solar Cells And Super Capacitors: A Review.	B. Tale, K. R. Nemade, and P. V. Tekade	International	Polymer-Plastics Technology and Materials, <b>2021</b> , 60 (7), pp 784-797	2021	2574-0881	<a href="https://www.tandfonline.com/doi/abs/10.1080/25740881.2020.1851378?journalCode=lpte21">https://www.tandfonline.com/doi/abs/10.1080/25740881.2020.1851378?journalCode=lpte21</a>  (Impact Factor: 2.63)
3. The Comprehensive Study Of Titanium Oxide Doped Conducting Polymers Nanocomposites For Photovoltaic Applications.	B. Tale, K. R. Nemade, and P. V. Tekade	International	Polymer-Plastics Technology and Materials, <b>2021</b>	2021	2574-0881, 2574-089X	<a href="https://www.tandfonline.com/doi/abs/10.1080/25740881.2021.1930047?journalCode=lpte21">https://www.tandfonline.com/doi/abs/10.1080/25740881.2021.1930047?journalCode=lpte21</a>  (Impact factor: 2.63)
4. Comprehensive Study To Ascertain The Effect Of MnO <sub>2</sub> Loading On Supercapacitive Properties Of Conducting Polymers	B. Tale, K. R. Nemade, and P. V. Tekade	International	International Journal of Polymer Analysis and Characterization <b>2021</b> , 26(7), pp 593-603	2021	1563-5341, 1023-666X	<a href="https://www.tandfonline.com/doi/abs/10.1080/1023666X.2021.1933853?journalCode=gpac20">https://www.tandfonline.com/doi/abs/10.1080/1023666X.2021.1933853?journalCode=gpac20</a>  (Impact Factor: 2.590)
5. Sensitization Of Tb <sup>3+</sup> And Dy <sup>3+</sup> Emission In Li <sub>4</sub> Ca(BO <sub>3</sub> ) <sub>2</sub> Via Energy Transfer From Ce <sup>3+</sup> And Study Of Energy Transfer Mechanism	M. Yerpude, G. B. Nair, S. J. Dhoble, S. H. Bagade, H. C. Swart	International	Optik, <b>2020</b> 218, pp 164977	2020	0030-4026	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0030402620308135?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0030402620308135?via%3Dihub</a>  (Impact Factor: 2.187)
6. Partial And Apparent Molar Volume Of Azithromycin In Its Solutions In Ethanol, 1-Propanol, And 1-Butanol At 300.15, 305.15, 310.15 K And Ambient Pressure	N. P. Mohabansi, A. K. Satone, and S. N. Hirani	International	Russian Journal of Physical Chemistry A, <b>2021</b> , 95(1), pp S1-S7.	2021	0036-0244	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8128087/pdf/11504_2021_Article_4249.pdf">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8128087/pdf/11504_2021_Article_4249.pdf</a>  (Impact factor: 0.581)
7. In Vitro Binding Interaction Of Isoxazoline Derivative With BSA: Equilibrium, FT-IR, Acoustical And Molecular Modeling Study	A. M. Pisudde, P. V. Tekade and S. B. Thakare	International	Orbital: The Electronic Journal of Chemistry, <b>2020</b> , 12(3), pp 118-126	2020	1984-6428	<a href="http://orbital.ufms.br/index.php/Chemistry/article/view/1450/pdf">http://orbital.ufms.br/index.php/Chemistry/article/view/1450/pdf</a>  (Cite Score: 0.7)
8. Role of Ajan Vruksha/Khandu Chakka	R. Thakre, K. Harne, P. Tekade,	International	International Journal of Research	2020	0975-7538	<a href="https://pharmascope.org/index.php/ijrps/articl">https://pharmascope.org/index.php/ijrps/articl</a>

Plant (Ehretia Laevis Roxb.) in Covid-19 Pandemic	and S. Parve		in Pharmaceutical Sciences, <b>2020</b> , <i>11</i> (SPL)(1), pp 224-233			<a href="https://ugccare.unipune.ac.in/ViewDetails?JournalId=101002783&amp;flag=Search">e/view/2703/5635</a> (Cite Score: 0.2)
9. Evaluation Of Ehretialaevisroxb. (Khanduchakka/Ajan Vruksha) In The Wound Healing Adjudged By Histological Examination Of The Tissue	R. Thakre, A. Bhake, P. Tekade, K. Harne, and P. Borkar	International	Indian Journal of Forensic Medicine & Toxicology, <b>2021</b> , <i>15</i> (20), pp 713-721	2021	0973-9122, 0973-9130	<a href="https://medicopublication.com/index.php/ijfmt/article/view/14397/13046">https://medicopublication.com/index.php/ijfmt/article/view/14397/13046</a> (Cite Score: 0.1)
10. Internal Use Of Ajanvruksha/Khanduchakka (Ehretialaevis Roxb). Plant Leaves Powder In Shoulder Pain Management. – Case Report	R. Thakre, A. Meghe, K. Thakre, and P. Tekade	International	Indian Journal of Forensic Medicine & Toxicology, <b>2021</b> , <i>15</i> (2), pp 708-712.	2021	0973-9122, 0973-9130	<a href="https://medicopublication.com/index.php/ijfmt/article/view/14395/13045">https://medicopublication.com/index.php/ijfmt/article/view/14395/13045</a> (Cite Score: 0.1)
11. Decolourizationand Degradation Of Textile Dye “Direct Blue15” By Bacterial Cultures Screened From Textile Industry	S. S. Khandare, K. C. Sadrani and M. G. Ingale	International	Juni Khyat, <b>2020</b> , <i>9</i> (3), pp 4321-4326	2020	2278-4632 (only print)	<a href="https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101002783&amp;flag=Search">https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101002783&amp;flag=Search</a>
12. Studies On Characterization And Antifungal Activity Of Plant Growth Promoting Rhizobacteria Isolated From Semiarid Soil Against Plant Fungal Pathogens.	S. S. Khandare, P. D. Bhoge and M. G. Ingale	International	Juni Khyat, <b>2020</b> , <i>10</i> (10/3), pp 1-8	2020	2278-4632 (only print)	<a href="https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101002783&amp;flag=Search">https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101002783&amp;flag=Search</a>
13. Study Of Excess Parameters And Partial Molar Volume For The Molecular Interactions Between Aqueous 2-(Tert-Butylamino)-1-(3-Chlorophenyl) Propan-1-One And NaCl Solution At Different Temperatures	N. P. Mohabansi	International	Journal of Scientific Research, <b>2020</b> , <i>64</i> (2), pp 352-358	2020	0447-9483	<a href="https://www.bhu.ac.in/research_pub/jsr/Volumes/JSR_64_02_2020/48.pdf">https://www.bhu.ac.in/research_pub/jsr/Volumes/JSR_64_02_2020/48.pdf</a>  <a href="https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101003096&amp;flag=Search">https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101003096&amp;flag=Search</a>
14. The Effect Of Exposure Of Emf Radiations From Cell Phones On Percentage Of Glucose, Cholesterol And Protein In Developing Chick Embryos	M. Chandrakar	International	Applied Ecology and Environmental Sciences, <b>2020</b> , <i>8</i> (6), pp 422-427	2020	2328-3920	<a href="http://pubs.sciepub.com/aees/8/6/14/index.html">http://pubs.sciepub.com/aees/8/6/14/index.html</a>  <a href="https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101003096&amp;flag=Search">https://ugccare.unipune.ac.in/Apps1/User/Weba/ViewDetails?JournalId=101003096&amp;flag=Search</a>

