

## **Research**

### 1) Details of Research Publications in Journals

<b><u>Sr. No.</u></b>	<b><u>Title of paper</u></b>	<b><u>Name of the author/s</u></b>	<b><u>Title of journal</u></b>	<b><u>(Nat./Int.nat.)</u></b>	<b><u>Year of Publication</u></b>	<b><u>Impact Factor</u></b>	<b><u>ISBN/ ISSN No</u></b>
	Solvent Extraxtion and spectrophotometric determination and separation of Ruthenium (III) with P-methylphenyl thiourea: sequential separation of ruthenium, osmium and iron	S R Kuchekar, <b>S D Bhumkar</b> , H R Aher, P Ramasami	Separation Science and Technology	International	2019	1.18	0149-63-95
	Solvent Extraxtion and spectrophotometric determination Iridium (III) using P-methylphenyl thiourea as a chelating agent: Sequential Separation of Iridium (III), Ruthenium (III) and Platinum (III)	S R Kuchekar, <b>S D Bhumkar</b> , H R Aher, Sung H Han	Journal of Materials and Environmental Sciences, 10, 12, 1200-1213	International	2019	0.18	2028-2508
	Solvent Extraxtion and spectrophotometric determination and separation of Palladium (III) with P-methylphenyl thiourea: as a complexing agent	S R Kuchekar, <b>S D Bhumkar</b> , H R Aher, B H ZawareP Ramasami	International Journal Chemical Molecular Engineering, 13,10, 491-497	International	209		1307-6892

Extractive Spectrophotometric determination of Osmium (VIII) using p-methylphenylthiourea as a Chromogenic reagent : mutual separation of palladium, osmium and platinum	S R Kuchekar, <b>S D Bhumkar</b> , H R Aher	Journal of materials and Environmental Science, 10, 4, 316	International	2019		2028-2508
Solvent Extraxtion, spectrophotometric determination and separation of Rhodium (III) from synthetic alloy samples using P-methylphenyl thiourea	S R Kuchekar, <b>S D Bhumkar</b> , H R Aher, P Ramasami	International Journal of Research and Analytical Reviews, 6, 2, 418	International	2019		2348-1269
Separation of Platinum(IV) from Pharmaceuticals using P-methylphenyl thiourea by Solvent Extraction: Separation from Palladium(II), Nickel(II)	S R Kuchekar, <b>S D Bhumkar</b> , H R Aher, Sung H Han	Analytical Chemistry Letters	International	2019	--	2230-7532
Pharmacophore Mapping Approach for Drug Target Identification: A Chemical Synthesis and insilico study on novel thiadiazole compounds	<b>Rajendra B. Gaikar</b> , Rohan Meshram , Rajesh Gacche, Vijay Baladhe, B.K.Karale	Journal of Clinical and Diagnostic Research, 11(5),	International	2017	-	2761-9925
Removal of Copper (II) from aqueous solution by modified agricultural waste materials	<b>Rajendra B. Gaikar</b> , B.K. Uphade, Anil G. Gadhave	Asian Journal of Research in Chemistry	International	2016	-	
Synthesis and antimicrobial evaluations of some novel fluorinated chromones and pyrazoles	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	Indian Journal of Chemistry, vol. 54 B, pp. 383-390.	International	2015	0.9	0975-0983

Extraction and purification of C-phycoerythrin from dry Spirulina and evaluating its antioxidant, anticoagulation and prevention of DNA damage activity	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	<i>Journal of Applied pharmaceutical Science</i> , 3(8), 149-153.	International	2014		2231-3354
In vitro effect of <i>G.glabra</i> and <i>T. Cordifolia</i> plant extracts on phagocytosis by human neutrophils	<b>Rajendra B. Gaikar</b> , Ganesh Vikhe, Pratik Vikhe, SujayNaik and AsmitaGavhane	<i>Pravara Medical Review</i> 5(2),	National	2013	-	0975-0533
Synthesis and Antimicrobial Activity of Some Novel 4-(1,2,3-thiadiazol-4-yl)phenoxy] methylene anchored 1,3,4-triazoles and 1,3,4-thiadiazoles.	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	Journal of Heterocyclic Chemistry, Volume 51, Number 6, 1 pp. 1849-1855 (7)	International	2014	1.2	0971-1627
Inhibition of spleen tyrosine kinase (Syk) <i>insilico</i> by thiazole derivatives.	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	<i>Int Res J Pharm</i> , 4(1), pp.241-246	International	<b>2013</b>	0.9	2230-8407
Computational evaluation of spiroisoxazolines as inhibitor of AChE, <i>Int Res J Pharm</i> , 3(7), 152-156.	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	<i>Int Res J Pharm</i> , 3(7), pp.152-156	International	<b>2012</b>	0.7	2230-8407

Conventional & non conventional synthesis of biological active novel pyrimidine and its molecular descriptor study	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	<i>Indian Journal of Heterocyclic Chemistry</i> , 22, pp.53-60	International	<b>2012</b>	0.46	0971-1627
Extraction and purification of C-phycoyanin from dry Spirulina and evaluating its antioxidant, anticoagulation and prevention of DNA damage activity	<b>Rajendra B. Gaikar Suresh P. Kamble , Padaliya</b>	<i>Journal of Applied pharmaceutical Science</i> , 3(8), pp.149-153.	International	<b>2012</b>		2231-3354
Synthesis of fluorinated chromones	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, Pratik Vikhe, B. K. Karale	<i>Indian journal of Heterocyclic Chemistry</i> , 20, pp.385-388.	International	<b>2011</b>	0.46	0971-1627
Molecular properties and docking studies on chromone pyrazolones as potential inhibitors of p38 MAP kinase,	<b>Rajendra B. Gaikar</b> , Pratik Vikhe, B. K. Karale	<i>Int J Pharm Pharm Sci</i> , 3(5), pp. 325-328	International	<b>2011</b>	0.5	0975 - 1491

Synthesis and antimicrobial screening of 2-(1-(2, 4-difluorophenyl)-1H-pyrazol-4-Yl)benzo[d]oxazole”	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, B. K. Karale	<i>Indian journal of Heterocyclic Chemistry</i> , 20, pp.221-225	International	<b>2011</b>	0.4	0971-1627
Effect of dairy effluent on seed germination and early seedling growth of soyabeans	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave, B.K. Uphade, S.R. Kuchekar	<i>Rasayan Journal of chemistry</i> , 3(1), pp. 137-139.	International	<b>2010</b>	0.49	0974-1496
Synthesis of some biologically active pyrazolones	<b>Rajendra B. Gaikar</b> , Anil G. Gadhave B. K. Karale	<i>Indian journal of Heterocyclic Chemistry</i> , 19, pp.325-328	International	<b>2010</b>	0.4	0971-1627
Sequence Analysis and Homology Modeling of laccase from <i>Pycnopus cinnabarinus</i>	<b>Rajendra B. Gaikar</b> , Rohan meshram, Asmita Gavhane.	<i>Bioinformation</i> , 5(4), pp. 150-154.	International	<b>2010</b>	0.9	0973-2063
To study some sonicator Assisted Electrophilic Substitution Reactions by Sonification with Green Approach	<b>Talekar Y.R.</b> Phatangare N.D. Deshmukh K.K.	Applied Research And Development Institute Journal	International	01” Feb. 2013	81-86	2249-8346



2) Details of Research Published in Proceeding

<u>Sr. No.</u>	<u>Title of paper in Seminar/ Conference</u>	<u>Name of the author/s</u>	<u>Title of Conference/ Seminar</u>	<u>(Nat./ Int.nat.)</u>	<u>Year of publication</u>	<u>Page no.</u>	<u>Organizer College/ Institute</u>	<u>ISBN/ ISSN No</u>
	<i>Occimum</i> leaf extract mediated green synthesis of silver nanoparticles and its antibacterial and antifungal activity	<b>R.B.Gaikar,</b> Suresh P.Kamble	Emerging in Chemical Sciences	National	20-21 <sup>st</sup> Jan . 2017	110	P.V.P.College Pravaranagar	-
	Synthesis and anti-inflammatory activity study of some Morpholinopyrazole link 3-cyanopyridine	<b>R.B.Gaikar,</b> A.G.Gadhave , B.K. Karale	Interface between colleges and Industry with reference to synthetic organic Chemistry and Spectroscopy	National	15-16 <sup>th</sup> Jan . 2016	48	RBNB College Shrirampur	978-81-932117-4-8
	A Spectrophotometric chemosensor for <i>copper II Based N-phenyl –N-Pyridin-2-yl Thiourea</i>	<b>S.D.Bhumkar,</b> Y. R. Sadaphal, S .S. Gholap	Emerging in Chemical Sciences	National	20-21 <sup>st</sup> Aug . 2015	55	P.V.P.College Pravaranagar	978-93-84648-58-9

Effect of Allium Sativum and plumbago rosea on the elimination of antibiotic resistance in multi drug resistant organisms	<b>R.B.Gaikar,</b> S.N.Jangle, V.C.Kaladhar	Emerging in Chemical Sciences	National	20-21 <sup>st</sup> Aug . 2015	42	P.V.P.College Pravaranagar	978-93-8 4648-58- 9
Synthesis of 2,5 Disubstituted Thiadiazole derivatives and Pharmaccophore mapping approach for target identification : Molecular docking and molecular hydrophobic potential Analysis	<b>R.B.Gaikar,</b> A.G.Gadhave , B.K. Karale	Emerging in Chemical Sciences	National	20-21 <sup>st</sup> Aug . 2015	33	P.V.P.College Pravaranagar	978-93-8 4648-58- 9
Ultra sound induced and silica –TFA catalysed protocol for Synthesis of Beta amino ketone via mannich reaction	<b>R.B.Gaikar,</b> A.G.Gadhave , K.R.Kadam	Emerging in Chemical Sciences	National	20-21 <sup>st</sup> Aug . 2015	79	P.V.P.College Pravaranagar	978-93-8 4648-58- 9



	Synthesis of novel 2,5 disubstituted 1,3,4 Thiadiazole derivatives and approach for target identification : Molecular Docking and Molecular Hydrophobic Potential Analysis	<b>R.B.Gaikar,</b>	Resent trends and Challenges in Science and technology	International	20-22 <sup>nd</sup> Aug . 2014	79	P.V.P.College Pravaranagar	-
	Synthesis of biological active novel pyrimidine derivatives and its Antimicrobial activity	<b>R.B.Gaikar,</b> B.K.Karale	Biologically active molecules	International	2012	457-459	Gandhigram Rural Institute (DU), Dindigul, Tamilnadu	93-82062-03-3
	Computational appraisal of Strylchromone derivatives as Selective Estrogen Receptor Modulators	<b>R.B.Gaikar,</b> Pratik Vikhe, B.K.Karale	Biologically active molecules	International	2012	309-313	Gandhigram Rural Institute (DU), Dindigul, Tamilnadu	93-82062-03-3

	In vitro Antioxidant and antiperoxidative activity of Glycerrhyza glabra and Tinospora cordifolia plant extract	<b>R.B.Gaikar,</b> Ganesh vikhe, Pratik Vikhe	Biologically active molecules	International	2012	45-48	Gandhigram Rural Institute (DU), Dindigul, Tamilnadu	93-82062-03-3
	Study of congo red dye decolorization by using Pycnoporos cinnabarinus Laccase and Laccase mediator System	<b>R.B.Gaikar,</b> <b>Anand Gupta,</b> <b>Mukesh Patidar</b>	Biologically active molecules	International	2012	146-148	Gandhigram Rural Institute (DU), Dindigul, Tamilnadu	93-82062-03-3
	Synthesis and antimicrobial screening of 2-(1-(2, 4-difluorophenyl)-1H-pyrazol-4yl)benzo[d]oxazole.	<b>R.B.Gaikar,</b> B.K.Karale	Application of Chemical Research in Pharmaceutics	National	2011	48	A.S.C. College, Rahata	-

Effect of <i>Allium Sativum</i> and <i>Plumbago rosea</i> on the elimination of antibiotic resistance in multidrug resistance drug	<b>R.B.Gaikar, Anand Gupta, Mukesh</b>	Application of Chemical Research in Pharmaceutics	National	2011	64	A.S.C. College Rahata	-
Microwave-assisted solvent free synthesis of 3-(( <i>E</i> )-2-(benzo[ <i>d</i> ]isoxazol-3-yl) vinyl)-4 <i>H</i> -chromen-4-one	<b>R.B.Gaikar, B.K.Karale</b>	Recent Development in Pharmacological Research	International	03-05 <sup>th</sup> Mar. 2010	81	Pravara Rural College of pharmacy, Loni	-
Conventional and non conventional synthesis of some biologically active Pyrazolones	<b>R.B.Gaikar, B.K.Karale</b>	Indian Science Congress	International	2010		Indian Science Congress Thiruvananthapuram Kerala	-
Extraction and purification of active ingredient in lemon grass	<b>R.B.Gaikar, Ketki kant</b>	Progressive journey of Drug from Mind to Market	National	18-20 Dec. 2008	29	P.V.P.College Pravaranagar	-
Effect of dairy effluent on seed germination.	<b>R.B.Gaikar,</b>	'Chemstorm'	National	31 <sup>st</sup> March 2009		Pravara Rural Engineering College, Loni	-

	To study some sonicator Assisted Electrophilic Substitution Reactions by Sonification with Green Approach	<b>Talekar Y.R.</b>	Applied Research And Development Institute Journal	International	01" Feb. 2013	81-86	S.N. Art's D. J. M. commerce and B.N. S. Science College, Sangamner Maharashtra India	2249-8346
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