

CURRICULUM VITAE

DR. ANIL SAHEBRAO KUWAR

Address for Correspondence

Plot No 41, Nagai colony

Sakri, Dist - Dhule

Maharashtra, India 424 304

Mobile - 8390407918

E-MAIL - kuwaras@gmail.com/ kuwaras@rediffmail.com

Objective - To Pursue a Challenging and Growth Oriented Career

❖ Academic Profile: Details of Professional Academic Record

Examination / Degree	University	Year of Passing	Mark Obtained	Major Subjects
Ph.D. (Chemistry)	North Maharashtra University, Jalgaon India.	2007	Title " <i>Synthesis, Characterization and Activities of Metal complexes of Ortho-thymoldehyde derivatives</i> "	
M. Sc. (Inorganic Chemistry)	North Maharashtra University, Jalgaon India.	2001	First Class	Inorganic Chemistry

❖ **Employment History (including Post Doctoral)**

Sl. No.	Position	Institute	Topic	Date of Joining	Date of Leaving	Duration
1	Assistant Professor	Yeshwant College, Affiliated SRTMU, Nanded India	Teaching and Research in Inorganic Chemistry	13/07/2023	Till Date	
2	Assistant Professor	North Maharashtra University, Jalgaon, India	Teaching and Research in Inorganic Chemistry	07/07/2017	30/06/2023	6 Years
3	Young Scientist SERB-DST Project	North Maharashtra University, Jalgaon, India	Teaching and Research in Inorganic Chemistry	25/10/2012	30/06/2017	5 Years
4	Assistant Professor UGC XI th Plan Post	North Maharashtra University, Jalgaon, India	Teaching and Research in Inorganic Chemistry	30/04/2011	31/05/2012	1 Year 1 Month
5	R and D Associate	Gulbrandsen Technology Ltd, Vadodara, Gujarat	Research on Industry Product	19/05/2010	29/04/2011	1 Year
6	Post Doctoral Research Fellow	University of Utsunomiya, Utsunomiya, Japan	Supramolecular Chemistry	01/04/2008	31/03/2010	2 Years
7	Post Doctoral Research Fellow	Sunchon National University, Sunchon, South Korea	Supramolecular Chemistry	01/03/2007	29/02/2008	1 Year

List of Publications-74
Corresponding Author*

Citation: 2250

h-index: 29

Ref:

<https://www.scopus.com/authorid/detail.uri?authorId=14066017700>

Sr. No	Authors	Title	Journal, Year, Volume and Page number	Publisher
1.	M.M. Patil, S.J. Park, G.S. Yeom, R.S. Bendre, Anil Kuwar *, S.B. Nimse	Fluorescence 'turn-on' probe for nanomolar Zn (II) detection in living cells and environmental samples	New J. Chem., 2022, 46, 13774-13782.	The Royal Society of Chemistry
2.	Gyu Seong Yeom, In-ho Song, Su Jeong Park, Anil Kuwar* , Satish Balasaheb Nimse	Development and application of a fluorescence turn-on probe for the nanomolar cysteine detection in serum and milk samples	Journal of Photochemistry and Photobiology A: Chemistry, 2022, 431, 114074.	Elsevier
3.	Anil Kuwar* , In-ho Song, Pritam D Torawane, Jung-Seop Lee, Suban K Sahoo, Satish Balasaheb Nimse	Detection of Al ³⁺ and Cu ²⁺ ions by isonicotinohydrazide based chemosensors and its application to live cell imaging.	Materials Advances, 2021, 2(19), 6306–6314.	The Royal Society of Chemistry
4.	Yogesh B. Wagh, Kundan C. Tayade, Anil Kuwar ,	Exploration of highly selective fluorogenic 'on-off' chemosensor for	Luminescence, 2020, 35 (3), 379-384.	John Wiley & Sons

	Suban K. Sahoo, Mayank, Narinder Singh, Dipak S. Dalal.	H ₂ PO ₄ ⁻ ions: ICT-based sensing and ATPase activity profiling		
5.	M. Kaur, P. Raj, N. Singh, A. Kuwar , * and N. Kaur	Benzimidazole-Based Imine-Linked Copper Complexes in Food Safety: Selective Detection of Cyproheptadine and Thiabendazole	ACS Sustainable Chem. Eng. 2018, 6, 3723–3732	American Chemical Society
6.	A.Saini, R.Kaur, N. Singh, A. Kuwar , * and N. Kaur	High Performance Fluorescent Turn-On Probe for Amitriptyline 2 Based on Hybrid Nanoassembly of Organic-Inorganic Nanoparticles	ACS Appl. Bio Mater., 2019, 2 (1), 135–143	American Chemical Society
7.	R.Kaur, S.K.Sahoo, N. Singh, A. Kuwar ,* and N. Kaur	Rhodamine based NIR and ratiometric fluorescent sensor for selective identification of potassium ion: application in biological sample	Supramolecular Chemistry, 2019, 31, 1, 36–44	Taylor & Francis
8.	R.Kaur, N. Singh, A. Kuwar , * and N. Kaur	Colorimetric sensor for detection of trace level Al (III) in aqueous medium based on organic-inorganic nanohybrid	Chemical Physics Letters, 2019, 722, 140-145	Elsevier
9.	N. Kaur, S Chopra, G. Singh, P. Raj, A. Bhasin, S. K. Sahoo, A. Kuwar *,	Chemosensors for biogenic amines and biothiols (Review)	J. Mater. Chem. B, 2018, 6, 4872-4902	The Royal Society of Chemistry

	N.Singh.			
10.	M Patil, K Keshav, M K. Kumawat, S Bothra, S K. Sahoo, R Srivastava, J Rajput, R Bendre, A Kuwar*	Monoterpenoid derivative based ratiometric fluorescent chemosensor for bioimaging and intracellular detection of Zn ²⁺ and Mg ²⁺ ions	Journal of Photochemistry & Photobiology A: Chemistry, 2018, 364 758–763	Elsevier
11.	M Patil, S Bothra, S K. Sahoo, H.A. Ahmad, R. Vasita R Bendre, A Kuwar*	Highly selective nicotinohydrazide based ‘turn-on’ chemosensor for the detection of bioactive zinc (II): Its biocompatibility and bioimaging application in cancer cells	Sensors and Actuators B: Chemical 2018, 270, 200-206	Elsevier
12.	A. Kuwar* , K. Tayade, K . Keshav, S.K. Sahoo, Ma yank and N. Singh	Cu ²⁺ driven metallo-supramolecular self-assembly and its application in sensing of hydroxyl ion	Supramolecular Chemistry, 2018, 30, 52–60	Taylor & Francis
13.	N. Kaur, M. Kaur, S.Chopra, J. Singh; A. Kuwar,* N. Singh	Fe (III) conjugated Fluorescent Organic Nanoparticles for Ratiometric Detection of Tyramine in Aqueous Medium: A Novel Method to Determine Food Quality	Food Chemistry, 2018, 245, 1257-1261	Elsevier
14.	N.Kaur, G.Kaur, A.Singh,	Anion sensing with chemosensors	Trends in Analytical	Elsevier

	U.Fegade, A. Kuwar* , N.Singh	having multiple -NH recognition Units (Review)	Chemistry, 2017, 95, 86-109	
15.	K.Keshav, P.Torawane, K.Tayade, S.Sahoo, M.Kumavat, R Srivastav, A. Kuwar*	Highly selective optical and reversible dual path chemosensor for cyanide detection and its application in live cells imaging.	Biosensors and Bioelectronics, 2017, 92, 95- 100	Elsevier
16.	P. Torawane, K.Keshave, S.Sahoo, M. Kumavat, R Srivastav, A.Borase, A. Kuwar*	A novel terephthalaldehyde based turn- on fluorescent chemosensor for Cu ²⁺ and its application in imaging of living cells.	Photochemical and Photobiological Sciences 2017, 16, 1464 - 1470	The Royal Society of Chemistry
17.	K Tayade, M Sonawane, P Torawane, A Singh, N Singh, A Kuwar*	A chemosensor selection for the fluorescence identification of tryptophan (Trp) amino acids in aqueous solutions with nanomolar detection	Sensors and Actuators B: Chemical, 2017, 246, 563- 569	Elsevier
18.	A Kaur, R Kaur, A Kuwar* , N Singh, N Kaur	Dihydropyrimidones based chloride ion chemosensor functional in aqueous solution under environmentally relevant conditions	Supramolecular Chemistry 2017, 29 (7), 506-517	Taylor & Francis

19.	P Torawane, SK Sahoo, A Borse, A Kuwar*	A new Schiff base as a turn-off fluorescent sensor for Cu ²⁺ and its photophysical properties	Luminescence, 2017, 32 (8), 1426-1430	John Wiley & Sons
20.	K. Tayade, A. Kuwar , S. Ingle, S. Attarde	Synthesis of organic motif tailored hybrid nanoframes: Exploiting in vitro bioactivity and heavy metal ion extraction applications	Materials Chemistry and Physics, 2017, 188, 8-17	Elsevier
21.	H Sharma, N. Kaur, A. Singh, A. Kuwar* and N. Singh	Optical chemosensors for water sample analysis (Invited Review)	J. Mater. Chem. C, 2016, 4, 5154-5194	The Royal Society of Chemistry
22.	M.Sonawane, K.Tayade, S.K.Sahoo, C.Sawant and A.Kuwar*	A new lawsone azo dye for optical sensing of Fe ³⁺ and Cu ²⁺ and their DFT study	Journal of Coordination Chemistry 2016, 18, 2785-2792	Taylor & Francis Production
23.	M.Pawar, K.Tayade, S.K.Sahoo, P.P.Mahulikar, A.Kuwar* , B.L.Chaudhari	Selective ciprofloxacin antibiotic detection by fluorescent siderophore pyoverdin	Biosensors and Bioelectronics, 2016, 81, 274-279	Elsevier
24.	P. Torawane, K. Tayade, S. Bothra, S.K. Sahoo, N.Singh, A. Borse, A. Kuwar*	A highly selective and sensitive fluorescent 'turn-on' chemosensor for Al ³⁺ based on C=N isomerization mechanism with nanomolar detection.	Sensors and Actuators B: Chemical, 2016, 222,562-566	Elsevier
25.	K. Tayade, K. Keshav, S.	A novel zinc (II) and hydrogen sulphate	Analyst, 2016,141, 1814-	The Royal

	K Sahoo, B. Bondhopadhyay, N. Singh, A. Basu, D.Nehete, A. Kuwar*	selective fluorescent “turn-on” chemosensor based on isonicotiamide: INHIBIT type’s logic gate and application in cancer cell imaging	1821	Society of Chemistry
26.	S. K. Sahoo, D.Sharma, A.Kuba, A. Kuwar , A.Basu	Pyridoxal derived chemosensor for chromogenic sensing of Cu ²⁺ and fluorogenic sensing of Fe ³⁺ in semi-aqueous medium.	Journal of Luminescence, 2016, 172, 297-303	Elsevier
27.	S.K. Sahoo, D.Sharma, A.Kuba, A. Kuwar , H. Choi	Acetate selective fluorescent turn-on sensors derived using vitamin B ₆ cofactor pyridoxal-5-phosphate.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2016, 157, 110-115	Elsevier
28.	D. Sharma, A. Moirangthem, R. Kumar, S. K. A. Kumar, A. Kuwar , J. F. Callan, A. Basu and S. K. Sahoo	Pyridoxal-thiosemicarbazide: its anion sensing ability and application in living cells imaging.	RSC Advances, 2015, 5, 50741–50746	The Royal Society of Chemistry
29.	U. Fegade, S. K. Sahoo, A.Singh, S. Attarde, N. Singh and A. Kuwar*	A chemosensor showing discriminating fluorescent response for highly selective and nanomolar detection of	Analytica Chimica Acta, 2015, 872, 63–69	Elsevier

		Cu ²⁺ and Zn ²⁺ and its application in molecular logic gate.		
30.	Y. B. Wagh, A. Kuwar , S. K. Sahoo, J. Galluccic, D. S. Dalal	Highly selective fluorimetric sensor for Cu ²⁺ and Hg ²⁺ using a benzothiazole-based receptor in semi-aqueous media and molecular docking studies.	RSC Advances, 2015, 5, 45528–45534	The Royal Society of Chemistry
31.	S. Patil, R. Patil, U. Fegade, B. Bondhopadhyay, S. K.Sahoo, N. Singh, A. Basu, R. Bendre , A. Kuwar*	A novel phthalazine based highly selective chromogenic and fluorogenic chemosensor for Co ²⁺ in semi-aqueous medium: Application in cancer cell imaging.	Photochemical and Photobiological Sciences, 2015, 14, 439-443	The Royal Society of Chemistry
32.	M.Sonawane, S. K.Sahoo, J Singh, N. Singh, C.P.Sawant, A. Kuwar*	A lawsone azo dye-based fluorescent chemosensor for Cu ²⁺ and its application in drug analysis.	Inorganic Chemica Acta, 2015,438, 37-41	Elsevier
33.	S.Bothra, R.Kumar, R. Patil, A. Kuwar , H.J.Choi, S.K.Sahoo	Virgin silver nanoparticles as colorimetric nanoprobe for simultaneous detection of iodide and bromide ion in aqueous medium.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 122-126	Elsevier

34.	Y. B. Wagh, A. Kuwar , D. R Patil, Y. A. Tayade, A. D. Jangale, S. S. Terdale, D. R. Trivedi, J. Gallucci, D. S Dalal	Highly Efficient Regioselective Synthesis of 2-Imino-4-oxothiazolidin- 5-ylidene Acetates via a Substitution- Dependent Cyclization Sequence under Catalyst-Free Conditions at Ambient Temperature.	Industrial & Engineering Chemistry Research, 2015, 54 (40), 9675–9682	American Chemical Society
35.	U. Fegade, J. Bhosale, H. Sharma, N. Singh, R. Bendre, A. Kuwar*	Fluorescence Chemosensor for HSO ₄ ⁻ Ion Based on Pyrrole-Substituted Salicylimine Zn ²⁺ Complex: Nanomolar Detection.	Journal of fluorescence, 2015, 25, 819-824	Springer Ltd
36.	R. Patil, U. Fegade, R. Kaur, S. K Sahoo, N. Singh, A. Kuwar*	Highly sensitive and selective determination of Hg ²⁺ by using 3-((2- (1H-benzo [d] imidazol-2-yl) phenylimino) methyl) benzene-1, 2- diol as fluorescent chemosensor and its application in real water sample.	Supramolecular Chemistry, 2015, 27,527-532	Taylor & Francis
37.	D. Mahajan, N. Khairnar, B. Bondhopadhyay, S. K. Sahoo, A. Basu, J. Singh,	A highly selective fluorescent ‘turn- on’chemosensor for Hg ²⁺ based on a phthalazinhydrazone derivative and its	New J. Chem, 2015,39, 3071-3076	The Royal Society of Chemistry

	N. Singh, R. Bendre and A. Kuwar*	application in human cervical cancer cell imaging.		
38.	K. Tayade, S. K Sahoo, B. Bondhopadhyay, V. K. Bhardwaj, N. Singh, A. Basu, R. Bendre, A. Kuwar*	Highly selective turn-on fluorescent sensor for nanomolar detection of biologically important Zn ²⁺ based on isonicotinohydrazide derivative: Application in cellular imaging.	Biosensor and Bioelectronics, 2014, 61, 429-433	Elsevier
39.	A. Kuwar* , R. Patil, A. Singh, S. K Sahoo, N. Singh	A two-in-one dual channel chemosensor for Fe ³⁺ and Cu ²⁺ with nanomolar detection mimicking IMPLICATION logic gate.	Journal of Materials Chemistry C, 2015, 3, 453-460.	The Royal Society of Chemistry
40.	K. Tayade, A. Kaur, G. K. Chaitanya, N. Singh, A. Kuwar*	Fluorogenic ratiometric dipodal optode containing imine-amide linkages: Exploiting subtle thorium (IV) ion sensing.	Analytica Chimica Acta, 2014, 852, 196-202	Elsevier
41.	A. Kuwar* , R. Patil, A. Singh, R. Bendre, N. Singh	A Fluorescent and Colorimetric Sensor for Nanomolar Detection of Co ²⁺ in Water.	Chem Phys Chem, 2014, 15, 3933-3937	John Wiley & Sons
42.	S, Pawar, U. Fegade, V. Kumar, N. Singh, R.	2-((E)-(2-aminophenylimino) methyl)-6-isopropyl-3-methylphenol based	Polyhedron, 2015, 87, 79-85	Elsevier

	Bendre, A. Kuwar*	fluorescent receptor for dual Ni ²⁺ and Cu ²⁺ recognition: Nanomolar Detection.		
43.	D.Sharma, A. Kuwar , N.Singh, S.K.Sahoo	Cu ²⁺ driven selective colorimetric sensing of iodide ions and AND logic gate using citrate capped AgNPs.	Material letter, 2015, 145, 34-36	Elsevier
44.	N. Khairnar, K. Tayade, B. Bondhopadhyay, J. Singh, S. K Sahoo, N. Singh, V. Gite, A. Basu, A. Kuwar*	A highly selective fluorescent ‘turn-on’ chemosensor for Zn ²⁺ based on a benzothiozole conjugate, their applicable in live cell imaging and resultant complex as secondary sensor of CN ⁻ .	Dalton Transactions, 2015, 44, 2097–2102	The Royal Society of Chemistry
45.	U. Fegade, S. K. Sahoo, S. Attarde, N. Singh and A. Kuwar*	Colorimetric and fluorescent “on–off” chemosensor for Cu ²⁺ in semi-aqueous medium.	Sensors and Actuators B, 2014, 202, 924–928	Elsevier
46.	J. Bhosale, U. Fegade, B. Bondhopadhyay, S.Kaur, N. Singh, A. Basu, R. Bendre, A. Kuwar*	Pyrrole-coupled salicylimine-based fluorescence “turn on” probe for highly selective recognition of Zn ²⁺ ions in mixed aqueous media: Application in living cell imaging.	Journal of Molecular Recognition, 2015, 28, 369–375	John Wiley & Sons
47.	R. Patil, K. Tayade, S. K	Ratiometric fluorescent scaffold giving	Journal of Molecular	John Wiley

	Sahoo, J. Singh, N. Singh, D. Hundiwale, A. Kuwar*	discrete response towards iodide ion: a combined experimental and DFT study.	Recognition, 2014, 27, 683-688	& Sons
48.	U. Fegade, S. K.Sahoo, N. Singh, R. Bendre , A. Kuwar*	2,2'-(Hydrazine-1,2-diylidenedimethylylidene) bis(6-isopropyl-3-methylphenol) based selective dual-channel chemosensor for Cu ²⁺ in semi aqueous media	RSC Advances, 2014, 4, 39639-39644	The Royal Society of Chemistry
49.	N. Khairnar, K. Tayade, A. Saini, S. K Sahoo, N.Singh, R. Bendre, A. Kuwar*	Novel fluorescent chemosensing of CN ⁻ anion with nanomolar detection using Zn ²⁺ isonicotinohydrazide metal complex.	RSC Advances, 2014, 4, 41802-41806	The Royal Society of Chemistry
50.	U. Fegade, S. Patil, R.Bendre, N. Singh , A. Kuwar*	A novel chromogenic and fluorogenic chemosensor for detection of trace water in methanol.	Sensors and Actuators: B Chemical, 2015, 210, 324-327	Elsevier
51.	K. Tayade, S. K Sahoo, N.Singh, A. Kuwar*	Architecture of dipodal ratiometric motif showing discrete nanomolar response towards fluoride ion.	Sensors and Actuators: B Chemical, 2014, 202, 1333-1337	Elsevier
52.	K. Tayade, S. K Sahoo, B. Bondhopadhyay, N. Singh, A. Basu, A. Kuwar	A fluorescent “turn-on” sensor for the biologically active Zn ²⁺ ion.	Inorganic Chemica Acta, 2014,421, 538-543	Elsevier

53.	S. Patil, U. Fegade, S. K. Sahoo, A. Singh, J. Marek, N. Singh, R. Bendre, A.Kuwar*	Highly sensitive and ratiometric chemosensor for selective 'naked-eye' and nanomolar detection of Co ²⁺ in semi-aqueous medium.	Chem Phys Chem, 2014, 15, 2230-2235	John Wiley & Sons
54.	K. Tayade, B. Bondhopadhyay, A. Basu, G. K. Chaitanya, S. K. Sahoo, S. Attarde, N.Singh, A. Kuwar*	A novel urea-linked dipodal naphthalene-based fluorescent sensor for Hg (II) and its application in live cell imaging.	Talanta, 2014, 122, 16-22	Elsevier
55.	K. Tayade, J. Gallucci, H.Sharma, S. Attarde, R. Patil, N. Singh, A. Kuwar*	Exploration of selective recognition of iodide with dipodal sensor: 2, 2'-[ethane-1, 2-diylbis (iminoethane-1, 1-diyl)] diphenol.	Dalton Transactions, 2014, 43, 3585-3588	The Royal Society of Chemistry
56.	K. Tayade, G. K. Chaitanya, R. Patil, S. Attarde, N. Singh, A. Kuwar*	Fluorescence Detection by Thiourea Based Probe of Physiologically Important Sodium Ion.	Journal of Luminescence, 2014, 154, 68-73.	Elsevier
57.	K. Tayade, B. Bondhopadhyay, A. Basu, H. Sharma, V. Gite, N. Singh, A. Kuwar*	<i>Turn-On</i> ' fluorescent chemosensor for Zinc (II) dipodal ratiometric receptor: Application in live cell imaging.	Photochemical and Photobiology Sciences, 2014, 13, 10552-1057	The Royal Society of Chemistry

58.	A. Chaudhari, A. Kuwar, P. Mahulikar, D. Hundiwale, R.Kulkarni, V . Gite	Development of anticorrosive two pack polyurethane coatings based on modified fatty amide of <i>Azadirachta indica</i> Juss oil cured at room temperature—a sustainable resource.	RSC Advances, 2014, 4, 17866-17872	The Royal Society of Chemistry
59.	R. Patil, A. Moirangthem, R. Butcher, N. Singh, A. Basu, K. Tayade, U. Fegade, D. Hundiwale, A. Kuwar*	Al ³⁺ selective colorimetric and fluorescent red shifting chemosensor: Application in living cell imaging	Dalton Transactions, 2014, 43, 2895-2899	The Royal Society of Chemistry
60.	U. Fegade, S. K.Sahoo, A. Singh, P. Mahulikar, S. Attarde, N. Singh, A. Kuwar*	A selective and discriminating noncyclic receptor for HSO ₄ ⁻ ion recognition.	RSC Advances, 2014, 4, 15288-15292	The Royal Society of Chemistry
61.	S. Rajput, V. Gite, A. Kuwar*	Renewable Source Based Non-Biodegradable Polyurethane Coatings from Polyesteramide Prepared in One-Pot Using Oleic Acid.	Journal of the American Oil Chemists' Society, 2014, 91, 1055-1063	Springer Ltd
62.	U. Fegade, G. K.Chaitanya, S. Tayade, S.	Fluorescent and chromogenic receptor bearing amine and hydroxyl	Journal of Fluorescence, 2014, 24, 675-681	Springer Ltd

	Attarde, A. Kuwar*	functionality for iron (III) detection in aqueous solution		
63.	K.Tayade, S. K. Sahoo, R. Patil, S. Attarde, N. Singh, A.Kuwar*	2,2'-[benzene-1,2-diylbis(iminomethanediyl)] diphenol derivative bearing two amine and hydroxyl groups as fluorescent receptor for Zinc (II) ion.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 312–316	Elsevier
64.	U. Fagade, H. Sharma, B. Bondhopadhyay, A. Basu S. Attarde, N. Singh, A. Kuwar*	“Turn-ON” Fluorescent Dipodal Chemosensor for Nano-Molar Detection of Zn ²⁺ : Application in living cells imaging.	Talanta, 2014,125, 418–424	Elsevier
65.	U. Fegade, H.Sharma, K. Tayade, S. Attarde, N. Singh, A. Kuwar*	An amide based dipodal Zn ²⁺ complex: nano-molar detection of HSO ₄ ⁻ in a semi-aqueous system	Org. Biomol. Chem, 2013, 11, 6824–6828	The Royal Society of Chemistry
66.	U. Fegade, A. Singh, G. K. Chaitanya, N. Singh, S. Attarde, A. Kuwar*	Highly selective and sensitive receptor for Fe ³⁺ probing.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2014, 21, 569-574	Elsevier
67.	U. Fegade, H. Sharma, N. Singh, S. Attarde, A. Kuwar*	An amide based dipodal Zn ²⁺ complex for in situ multi cations and nanomolar detection.	Journal of Luminescence, 2014, 149, 190-195	Elsevier

68.	U. Fegade, J. Marek, R. Patil, S. Attarde, A. Kuwar*	A selective fluorescent receptor for the determination of nickel (II) in semi-aqueous media.	Journal of Luminescence, 2014, 146, 234-238	Elsevier
69.	U. Fegade, H. Sharma, S. Attarde, N. Singh, A. Kuwar*	Urea Based Dipodal Fluorescence Receptor for Sensing of Fe ³⁺ Ion in Semi-Aqueous Medium.	Journal of Fluorescence, 2014, 24, 27-37	Springer Ltd
70.	U. Fegade, S. Attarde, A. Kuwar*	Fluorescent recognition of Fe ³⁺ ion with photoinduced electron transfer (PET) sensor.	Chemical Physics Letters, 2013, 584, 165–171	Elsevier
71.	K. Tayade, A. Kuwar* , U. Fegade, H. Sharma, N. Singh, U. Patil, S. Attarde	Design and Synthesis of a Pyridine Based Chemosensor: Highly Selective Fluorescent Probe for Pb ²⁺ .	Journal of Fluorescence, 2014, 24, 19-26.	Springer Ltd
72.	A. Kuwar* , U. Fegade, K. Tayade, U. Patil, H. Puschmann, V. Gite, D. Dalal, R. Bendre	Bis(2-Hydroxy-3-Isopropyl-6-Methyl-Benzaldehyde) Ethylenediamine: A Novel Cation Sensor.	Journal of Fluorescence, 2013, 23, 859–864	Springer Ltd
73.	R. Butcher, R. Bendre and A. Kuwar	6,6'-Diisopropyl-3,3-dimethyl-2,2'-azidodiphenol	Acta Cryst, 2007, E63, o3360	John Wiley & Sons
74.	R. Butcher, R. Bendre and A. Kuwar	2-Formylthymol oxime	Acta Cryst, 2005, E61, o3511–o3513	John Wiley & Sons

Completed Research Project

Project undertaken	Duration (date)		University / Sponsoring Authority	Funds sanctioned	Present Status
	From	To			
Self Assembly and Studies of Molecular Association and Synthesis of supramolecular compounds containing plural hydroxyl and amide groups via tandem Claisen rearrangement and probing their utility in molecular recognition processes.	25/10/2012	30/06/2017	SERB-DST, New Delhi	2813667/-	Completed

❖ Best Chemistry Student Awarded in M.Sc.-**2001**

❖ Patent Filed-01 (2019)

Sr. No.	CBR Number	Reference Number / Application Type	Application Number	Title/Remark	Amount Paid	Amount Computed
1	21095	ORDINARY APPLICATION Pages:- 8, Claim:- 0, Drawing:- 0, Abstract:-0, Claim Pages:- 0	201921039074	SYNTHESIS OF C,H,N AND S CONTAINING HETEROCYCLIC COMPOUNDS AND THEIR BIOLOGICAL ASPECTS	1750	1750
2		E-101/13926/2019-MUM	201921039074	Correspondence	0	0
3		E-2/2046/2019-MUM	201921039074	Form2	0	0
4		E-3/13044/2019-MUM	201921039074	Form3	0	0
5		E-5/1712/2019-MUM	201921039074	Form5	0	0
Total Amount					1750	1750

❖ **Teaching Experience- Courses and Laboratories**

Sr.No	Title of course taught	Postgraduate/ Undergraduate	Sole instructor or with others
1	Inorganic Chemistry Paper I and II	Postgraduate	Sole instructor
2	Laboratory Course in Inorganic Chemistry	Postgraduate	Sole instructor
3	Concept in Analytical Chemistry	Postgraduate	Sole instructor
4	Applied Industrial Chemistry	Postgraduate	Sole instructor

❖ **Area of Interest**

Core Areas of Specialization	Current Research Interests
Inorganic Chemistry	Supramolecular Chemistry including host-

	gust chemistry, Biosensor, Chemosensor, Coordination Chemistry.
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❖ **Personal Information**

Date of Birth	Nationality	Marital Status	Languages Known	Category
03/10/1978	Indian	Married	English, Hindi, Marathi	OBC/OPEN-PwD

❖ **List of Potential Referees**

Sr.No	Name of Referees including Address
1	Professor P.P. Mahulikar Former Pro Vice Chancellor, North Maharashtra University, Jalgaon E-mail- mahulikarpp@rediffmail.com Mobile-9423044000
2	Professor Narinder Singh Department of Chemistry, Indian Institute of Technology, Ropar, Panjab E-mail- nsingh@iitrpr.ac.in Mobile-09815250731
3	Professor Mrs.Ratnamala Bendre (Research Guide) Head- Department of Agrochemical and Pesticide, School of Chemical Sciences North Maharashtra University, Jalgaon Email: bendreras@rediffmail.com , Phone No. 0257 2257431