

Department of Basic science Publication details

Chemistry

Sl.No	Name of the Faculty	Number of Papers		Title of the Papers
		National	International	
1	Dr.Nirdosh Patil	15	35	<p>1. Synthesis and Spectral studies on Co(II), Ni(II) and Cu(II) complexes of 12-memberd macrocyclic ligands Nirdosh Patil and B.R. Patil Oriental Journal of Chemistry, 18, 3, (2002).</p> <p>2. Synthesis and Spectral studies on Co(II), Ni(II) and Cu(II) complexes with benzoinoxime Nirdosh Patil, Vasudev Kulkarni, Vidyavati Reddy and B.R. Patil Oriental Journal of Chemistry, 21(3),587-590, (2005).</p> <p>3. Synthesis, Characterization and Anti-microbial activity of Co(II), Ni(II) and Cu(II) complexes with ligands derived from pyrazoline derivatives Nirdosh Patil, Basavaraj M Shrigiri and S. B. Patil Oriental Journal of Chemistry, 22, 2, (2006).</p> <p>4. Synthesis and Characterization of Co(II), Ni(II) and Cu(II) complexes with O, N and S donar ligands Vidyavati Reddy, Nirdosh Patil and B.R.Patil Journal of the Indian Council of Chemists, 23,2, 1-3, (2006).</p> <p>5. Synthesis, Characterization and Anti-microbial activity of Co(II), Ni(II) and Cu(II) complexes with O, N and S donar ligands Vidyavati Reddy, Nirdosh Patil and S. D. Angadi E-Journal of Chemistry, 5, 3, 577-584, (2008)</p> <p>6. Synthesis, Characterization and Anti-microbial activity of Co(II), Ni(II) and Cu(II) complexes with Schiff bases derived from 3-[4-(Chloro-phenyl methoxy)-4-amino-5-mercapto-1,2,4-triazole</p>

				<p>Vidyavati Reddy, Nirdosh Patil, Tukaram Reddy and S. D. Angadi E-Journal of Chemistry, 5, 3, 529-538, (2008)</p> <p>7. Synthesis, Characterization and Microbial activities of Metal Complexes with Coumarine derivatives Ramachandra Akkasali, Nirdosh Patil and S.D. Angadi Rasayana Journal of Chemistry 2, 1, 81-86, (2009)</p> <p>8. Synthesis and Characterization of Co(II), Ni(II) and Cu(II) complexes with Schiff bases A. Ramachandra, Nirdosh Patil, Fazlur Rehman, V.H.Kulkarni and S. D. Angadi Inorganic Chemistry an Indian Journal, 4, 4, (2009)</p> <p>9. Non Template Synthesis and Anti-microbial activities of tetraazamacrocyclic ligands with variable ring sizes. Nirdosh Patil and Ramachandra Akkasali International Journal of Pharma and Bioscience (Medicinal Chemistry),1, 2, (2010).</p> <p>10. Synthesis and Characterization of Co(II), Ni(II) and Cu(II) complexes with Schiff bases derived from substituted salicylaldehyde of 1-amino-2-mercapto-1,3,4-triazoles Nirdosh Patil and Ramachandra Akkasali International Journal of Chemical Science, 8(2), 1193-1199,(2010).</p> <p>11. Study on the Physico-Chemical Characteristics of ground water of Gulbarga city (Karnataka) Nirdosh Patil, Ateeq Ahmed, Suresh babu H, N M Kottureshwar, M Jayasree and J. Nijalingappa International Journal of Applied Biology and Pharmaceutical Technology, 1, 2, 518-523, (2010).</p> <p>12. Synthesis, Spectral studies and Microbial activities of metal complexes with Coumarine derivatives. Ramachandra Akkasali, Nirdosh Patil, P K Churasia, J Nijalingappa and S D Angadi International Journal of Applied Biology and</p>
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				<p>Pharmaceutical Technology, 1, 2, 518-523, (2010).</p> <p>13. Physico- Chemical Investigation and Biological studies of metal complexes with 2-[N-(3,4-Dimethoxy-2-hydroxyphenyl)-Methylidiny]-amino-4,5-dihydroxy naphtha[1,2d]-thiazole Vijayakumar Durg, Nirdosh Patil and K H Shivaprasad International Journal of Pharma and Bio Sciences, 2, 4, (2011)</p> <p>14. Synthesis and Characterization of Co(II), Ni(II) and Cu(II) complexes of 12-memberd macrocyclic ligands Vijaykumar Durg, Nirdosh Patil, K. H. Shivprasad and Kashinath K International Journal of Applied biology and Pharmaceutical Technology, 2, 3, (2011)</p> <p>15. Synthesis, Characterization and Anti-microbial activity of Co(II), Ni(II) and Cu(II) complexes with Schiff bases derived from 2-[N-(2-Hydroxyphenyl)methylidiny] amino-4,5-hydronaphtho[1,2d] thiazole derivatives Vijayakumar Durg, Nirdosh Patil and K H Shivaprasad Asian Journal of Chemistry, 24, 5, 2162-2164 (2012)</p> <p>16. Study of dependence of Rh(III) catalysis in oxidation of aspartic acid used as substrate in alkaline medium of hexacyanoferrate(III) J.Nijalingappa, Nirdosh Patil and P K Chourasia, Deccan Journal of Chemistry, 1, 1, (2014)</p> <p>17. Hydrogen Production from Methane Decomposition Using Nano Metal Oxides Jyoti C. H. Ashok K. Srilatha, Nirdosh Patil, C. H. Shilpa Chakra. Elsvier., Materials Today., 4, 11, 3, 11679-11689, (2017) https://doi.org/10.1016/j.matpr.2017.09.082</p> <p>18. Synthesis, Characterization and Antimicrobial activities of Co(II), Ni(II) and Cu(II) metal complexes of the pyrazole derivatives as ligands Ambika Bhusanage and Nirdosh Patil</p>
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				<p>World Journal of Pharmaceutical Research. 7, 3, 1602-1610 (2018)</p> <p>19. Conductivity and Thermal Stability of Pani-Fe₂O₃ Composites Synthesized by Ex situ Polymerization Technique Vijayalaxmi Reddy , Mahadevi Konin, Nirdosh Patil and Anilkumar Bidve Journal of Emerging Technologies and Innovative Research (JETIR), 5, 5, 875-878, (2018).</p> <p>20. Conductivity and dielectric properties of PANI-Fe₂O₃ composites synthesized by in situ polymerization technique Mahadevi Konin, Vijayalaxmi Reddy, Nirdosh Patil and Anilkumar Bidve Journal of Emerging Technologies and Innovative Research (JETIR), 5, 7, 170-175, (2018).</p> <p>21. Dc Conductivity studies on Polyaniline-WO₃ Composites Synthesized by in- situ Polymerization Technique Shweta.C Gumma, Anilkumar.G.Bidve and Nirdosh.Patil Journal of Emerging Technologies and Innovative Research (JETIR), 5, 6, 616-1620, (2018).</p> <p>22. Studies on Structural, Electrical and Thermal properties of pani-Tio₂ composites synthesized by in-situ polymerization technique Shweta.C.Gumma , Dr. Anilkumar.G.Bidve and Dr. Nirdosh.Patil International Journal of Research and Analytical reviews, Volume 6, Issue 1,2019, 1058</p> <p>23. Synthesis, Characterization and Spectro photometric study of Stability Constant of Cu(II) metal complexes with ligands derived from 4,6-bis-(arylidene-amino)-1,3,4-trihydro pyrimidine-2-thione derivatives at different temperature. Shweta M Patil, Parvati S G and Nirdosh Patil</p>
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				<p>International Journal of Research and Analytical Reviews (IJRAR), 5, 4,406-418 (2018),</p> <p>24. Physico-chemical and spectrophotometric study of stability constant of Cu(II) metal complexes with ligands 2-(4-(hydroxymethyl)-1-phenyl-1H-pyrazol-3-yl)phenols derivatives at different temperature. S. G Parvathi, Shweta M Patil and Nirdosh Patil Asian Journal of Research in Chemistry and Pharmaceutical Sciences, 7(1), 224-232, (2019).</p> <p>25. Synthesis, Characterization and evaluation of stability constant of Cu(II) metal complexes with ligands 2-(3-(5-chloro-2-hydroxyphenyl)-1-phenyl-1H-pyrazol-4-yl)-4H-chromen-4-one derivatives S. G Parvathi, Shweta M Patil and Nirdosh Patil Research Journal of Chemistry and Environment, Vol. 24 (7), 120-125,(2020)</p> <p>26. Determination of Cu(II) in Bheema River water and their sediment samples obtained from Kalaburagi, Karnataka, India using 2-hydroxy acetophenone phenylhydrazone derivatives by Spectrophotometric method. Shweta M Patil, Parvati S G and Nirdosh Patil RASAYAN Journal of Chemistry,13, 3, 1984-1991(2020).</p> <p>27. Microwave Irradiative Synthesis, Characterization and Evaluation of Microbial Activity of Co(II), Ni(II) and Cu(II) metal complexes with ligands 2,4-di(2-hydroxy benzylideneamino)-6-methyl[1,3,5]-triazene derivatives Sunanda Ravindranath and Nirdosh Patil International journal of Engineering and Science invention, Volume 9 Issue 7 Series II July 2020 PP 56-60</p> <p>28. Determination of Cu(II) in Amarja Dam water and their sediment samples obtained from Aland, Kalaburagi, Karnataka, india</p>
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				<p>using 2-[4-(hydroxymethyl)-1-phenyl-1H-pyrazol-3yl]phenol derivatives by spectrophotometric method. Ambika Bhusange and Nirdosh Patil International Journal of Engineering Science Invention (IJESI), Volume 9 Issue 11 Series I November 2020 PP 53-58</p> <p>29. Microwave Irradiative Synthesis, Characterization and Evaluation of Microbial Activity of Co(II), Ni(II) and Cu(II) metal complexes with ligands 2-(2-hydroxybenzylidene amino)-4-benzylideneamino-6-methyl-[1,3,5]-triazine derivatives Sunanda Ravindranath and Nirdosh Patil and A Ramachandra International Journal of Pharmaceutical Research and Applications, Volume 6, Issue 1 Jan-Feb 2021, pp: 37-42.</p> <p>30. Synthesis, Characterization, Antimicrobial studies and Evaluation of Stability constants of Cu (II), Ni (II) and Co(II) complexes with the ligands derived from chalcone derivatives Parvati S G, Nirdosh Patil, Shweta M. Patil, Ambika Bhusange, Sunanda Ravindranath, Gradiva Review Journal, 7.7 (2021), 227.</p> <p>31. A Study on Dielectric Behavior, AC and DC Conductivities of PANI-Al₂O₃ Composites Shweta C. Gumma, Anilkumar G. Bidve, Nirdosh Patil and Bharati Basavaraj, Advanced Materials and Radiation Physics, (AMRP-2020) AIP Conf. Proc. 2352, 020047-1–020047-6; https://doi.org/10.1063/5.0055478.</p> <p>32. Synthesis, Characterization, Study of antimicrobial activity and Evaluation of stability constants of Cu(II) complexes with ligands 2-(4,5-dihydro-1,5-diphenyl-1H-pyrazole-3yl)phenol derivatives. Shweta M Patil, Nirdosh Patil, Parvati S G and Ambika Bhusange International Journal of Scientific and Research Publications, Volume 11, Issue 8, August 2021, http://dx.doi.org/10.29322/IJSRP.11.08.2021.p11610.</p>
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				<p>33. Synthesis, Characterization, Antimicrobial and Antioxidant Studies of Co(II), Ni(II), Cu(II) and Zn(II) Metal Complexes with the Ligands 2-[[4-(5-bromo thiophen-2-yl)-6-phenylpyrimidin-2-yl]carboimidoyl]phenol Derivatives Sunanda Ravindranath, Nirdosh Patil, Shweta Patil, Ambika Bhusange. International Journal for Research in Applied Science & Engineering Technology, Volume 9 Issue VII July 2021, 2902</p> <p>34. Microwave irradiated synthesis, characterization as well as determination of stability of Copper (II) complexes with N;N'(6'-substituted-1,3,5-triazine-2,4-diyl)bis(3-oxobutanamide) as ligands Ambika Bhusange, Nirdosh Patil, Shweta Patil, Parvati S G, Sunanda Ravindranath, International Journal of Interdisciplinary Research and Innovations, Vol. 9, Issue 3, pp: (17-25), Month: July - September 2021.</p> <p>35. Fabrication of zirconyl chloride doped polyvinyl alcohol / polythiophene (pva-Zr-pt) nanocomposite thin films by chemical polymerization method. Anand Patil, and Nirdosh Patil International Journal of Applied Chemistry. ISSN 0973-1792 Volume 17, Number 1 (2021) pp. 55-67, https://dx.doi.org/10.37622/IJAC/17.1.2021.55-67.</p> <p>36. Synthesis, characterization and conductance properties of cobalt chloride doped polyvinyl alcohol / polythiophene (pva-Co-pt) nanocomposite films. Anand Patil, and Nirdosh Patil Journal of Material Science and Surface Engineering, Vol. 9 (1), 2022, pp 1051-1056 , DOI: https://doi.org/10.52687/2348-8956/912</p> <p>37. Fabrication, Characterization and NH₃ Sensing Properties of Zinc Supported TiO₂ Doped Polypyrrole Nanocomposite Thin Films</p>
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				<p>Anand Patil, and Nirdosh Patil Asian J. Chem. / 2022 / 34(12) /pp 3263-3268.</p> <p>38. Effect of Substrate Temperature on Porosity and Gas Sensing Properties of SnO₂-B: Doped Polypyrrole Thin Films Anita R H, Nirdosh Patil Ambrish Reddy ECS Transactions, 107 (1) 11833-11845 (2022).</p> <p>39. Structural, Optical and Photoluminescence Properties Of SnMoO₂ Doped Polypyrrole Nanocomposite Thin Films Anita R H and Nirdosh Patil Journal of Xi'an University of Architecture & Technology Volume XIV, Issue 7, 2022, ISSN No : 1006-7930, Page No: 495</p> <p>40. Fabrication, Characterization and gas sensing properties of CaMnO₃ doped polyaniline nanocomposite Thin Films Ambresh Reddy, Nirdosh Patil and Neha Bolegaon, ECS Transactions, 107(1) 11467-11477 (2022), DOI:10.1149/10701.11467ecst</p> <p>41. Synthesis, Characterization and Proton Conducting Behavior of a Novel Composite Films Based on Phosphosilicate / Polypyrrole (PS/PPy) Praveen Chouri, Nirdosh Patil and Anilkumar Bidve ECS Transactions, 107 (1) 11419-11430 (2022), DOI: 10.1149/10701.11419ecst</p> <p>42. Structural, Electrical and gas sensing behavior of BaCuO₂ doped polyaniline nano composite Thin Films Neha N Bolegaon and Nirdosh Patil, <i>Dickensian Journal</i>, 22, 6, 1619-1626 (2022)</p> <p>43. Fabrication, Characterization and gas sensing behavior of Ba-doped CuO with polypyrrole nano composite Thin Films Neha N Bolegaon and Nirdosh Patil, <i>International Journal for Research in Engineering Application & Management</i> Vol-09, Issue-01, Apr 2023</p>
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				<p>44. Morphological, electrical and Gas responding behavior of CaMnO_3 doped polypyrrole nanocomposite thin films Ambresh Reddy, Nirdosh Patil and Anita H, 3rd ICMSS-2023- Elseiver <i>Materials Today Proceedings</i>(Communicated)</p> <p>45. Fabrication, Structural, Optical, Electrical and Gas sensing properties CoAl_2O_4 doped Polypyrrole Nanocomposite thin films Anita H, and Nirdosh Patil <i>Journal of Material Science and Surface Engineering</i>,(Accepted)</p> <p>46. Fabrication, Morphological, Optical, Conducting and Gas sensing behavior of Zn-Mn-Al_2O_3 doped polypyrrole nano composites Earamma and Nirdosh Patil <i>Asian Journal of Research in Chemistry and Pharmaceutical Sciences</i>,11(2), 2023, 68-77.</p> <p>47. Synthesis, Antimicrobial Activity and Fluorescence Quenching Using Stern-Volmer Equation of Coumarin Derivatives Shivaleela M V, Anilkumar G Bidve and Nirdosh Patil <i>Journal of Xi'an University of Architecture & Technology</i>, Volume XIV, Issue 8, 2022</p> <p>48. Effect of Hydrogen bonding on Fluorescence Quenching of 2-pyrazole chromones analysis using negative Stern-Volmer plots. Shivaleela M V, Anilkumar Bidve and Nirdosh Patil <i>International Journal of Research and Analytical Reviews (IJRAR)</i>, 2,10, 2023.260-266.</p> <p>49. Physico-Chemical and Spectrophotometric study of stability constant of Co(II), Ni(II) and Cu(II) metal complexes with ligands 3-(2-hydroxyphenyl)-1-phenyl-1h-pyrazole-4-carbaldehyde derivatives Sangeeta Aland and Nirdosh Patil, <i>Asian Journal of Research in Chemistry and Pharmaceutical Sciences</i>,11(2), 2023, 78-87.</p>
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				<p>50. Synthesis, Characterization and Spectrophotometric study of stability constants of Co(II), Ni(II) and Cu(II) metal complexes derived from of 4-(4, 5- dihydro-3,-5- diarylpyrazol-1-yl)benzaldehyde derivatives</p> <p>Sangeeta Aland and Nirdosh Patil, International Journal of Research and Analytical Reviews (IJRAR), 10, 2, June 2023, 775-780.</p>
2	Dr.Parvati S G	4	3	<p>1. Physico-Chemical And Spectrophotometric Study Of Stability Constant Of Cu(Ii) Metal Complexes With Ligands 2-(4-(Hydroxymethyl)-1-Phenyl-1h-Pyrazol-3-Yl) Phenols Derivatives At Different Temperature</p> <p>2. Synthesis, Characterization and Evaluation of stability constants of Cu(II) metal complexes with ligands 2-(3-(5-chloro-2-hydroxyphenyl)-1-phenyl-1H-pyrazol-4-yl)-4H-chromen-4-one derivatives.</p> <p>3 . Synthesis, Characterization, Antimicrobial studies and Evaluation of Stability constants of Cu (II), Ni (II) and Co(II) complexes with the ligands derived from chalcone derivatives</p> <p>4. Microwave irradiated synthesis, characterization as well as determination of stability of Copper (II) complexes with <i>N,N'</i>-(‘6’-substituted-1,3,5 -triazine-2,4-diyl)bis(3-oxobutanamide) as ligands.</p> <p>5. Synthesis,characterization and Spectrophotometric study of Stability constants of Cu(II) metal complexes with ligands derived from 4,6-bis-(arylidene-amino)-1,3,4-trihydropyrimidine-2-thione derivatives at different temperature</p>

				<p>6. Determination of Cu(II) In Bheema River water and their sediment samples obtained from Kalaburagi, Karnataka, India using 2-Hydroxy Acetophenone Phenylhydrozone derivatives By Spectrophotometric Method.</p> <p>7. Synthesis, Characterization, Antimicrobial Activity and Evaluation of Stability constants of Cu (II) complexes with ligands 2-(4,5 dihydro-1,5-diphenyl-1H-pyrazole-3yl)phenol derivatives.</p>
3	Dr.Shweta Patil	5	3	<p>1. Synthesis, characterization and Spectrophotometric study of Stability constants of Cu(II) metal complexes with ligands derived from 4,6-bis-(arylidene-amino)-1,3,4-trihydropyrimidine-2-thione derivatives at different temperature.</p> <p>2. Determination of Cu(II) In Bheema River water and their sediment samples obtained from Kalaburagi, Karnataka, India using 2-Hydroxy Acetophenone Phenylhydrozone derivatives By Spectrophotometric Method.</p> <p>3. Synthesis, Characterization, Antimicrobial Activity and Evaluation of Stability constants of Cu (II) complexes with ligands 2-(4,5 dihydro-1,5-diphenyl-1H-pyrazole-3yl)phenol derivatives.</p> <p>4. Physico-chemical and spectrophotometric study of stability constant of Cu(II) metal complexes with ligands 2-(4-(hydroxymethyl)-1-phenyl-1h-pyrazol-3-yl) phenols derivatives at different temperature.</p> <p>5. Synthesis, Characterization and Evaluation of stability constants of Cu(II) metal complexes with ligands 2-(3-(5-chloro-2-hydroxyphenyl)-1-phenyl-1H-pyrazol-4-yl)-4H-chromen-4-one derivatives.</p> <p>6. Synthesis, Characterization, Antimicrobial studies and Evaluation of Stability constants of Cu (II), Ni</p>

				<p>(II) and Co(II) complexes with the ligands derived from chalcone derivatives.</p> <p>7. Microwave irradiated synthesis, characterization as well as determination of stability of Copper (II) complexes with <i>N,N'</i>-(6'-substituted-1,3,5 -triazine-2,4-diy)bis(3-oxobutanamide) as ligands.</p> <p>8. Synthesis, Characterization, Antimicrobial and Antioxidant Studies of Co(II), Ni(II), Cu(II) and Zn(II) Metal Complexes with the Ligands 2-[4-(5-bromothiophen-2-yl)-6-phenylpyrimidin-2yl]carboimidoyl} phenol Derivatives.</p>
4	Earamma		01	<p>1. Fabrication, Morphological, Optical, Conducting and Gas sensing behavior of Zn-Mn-Al₂O₃ doped polypyrrole nano composites Earamma and Nirdosh Patil Asian Journal of Research in Chemistry and Pharmaceutical Sciences,11(2), 2023, 68-77. ISSN 2349-7106 DOI: https://doi.org/10.36673/AJRCPS.2023v11.i02.A11</p>
5	Ambresh Reddy		03	<p>1) Fabrication, Characterization, and Gas Sensing Properties of CaMnO₃ Doped Polyaniline Nano Composite Thin Films. Ambresh Reddy¹, Nirdosh Patil² and Neha N Bolegaon² © 2022 ECS - The Electrochemical Society ECS Transactions, Volume 107, Number 1,Citation Ambresh Reddy et al 2022 ECS Trans. 107 11467-11477(2022) DOI 10.1149/10701.11467ecst.</p> <p>2) Effect of Substrate Temperature on Porosity and Gas Sensing Properties of SnO₂-B: Doped Polypyrrole Thin Films. Anita R H , Nirdosh Patil , Ambresh reddy, ECS Transactions, Volume 107 (1), 11833-11845 (2022), 10.1149/10701.11833ecst ©The Electrochemical Society, DOI 10.1149/10701.11833ecst.</p>

				<p>3) Morphological, electrical and gas responding behavior of CaMnO₃ doped polypyrrole nano composite thin films, Ambresh Reddy¹ and Nirdosh Patil², Elsevier Materials Today: Proceedings ISSN: 2214-7853 (2023).(Communicated in progress)</p>
6	Neha N Bolegaon		3	<ol style="list-style-type: none"> 1. Fabrication, Characterization and gas sensing properties of CaMnO₃ doped polyaniline nanaocomposite Thin Films Ambresh Reddy, Nirdosh Patil and Neha Bolegaon, <i>ECS Transactions</i>, 107(1) 11467-11477 (2022), DOI:10.1149/10701.11467ecst 2. Structural, Electrical and gas sensing behavior of BaCuO₂ doped polyaniline nano composite Thin Films Neha N Bolegaon and Nirdosh Patil, <i>Dickensian Journal</i>, 22, 6, 1619-1626 (2022) 3. Fabrication, Characterization and gas sensing behavior of Ba-doped CuO with polypyrrole nano composite Thin Films Neha N Bolegaon and Nirdosh Patil, <i>International Journal for Research in Engineering Application & Management</i> Vol-09, Issue-01, Apr 2023