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Research Publications

- ➡ Multiple heating rate kinetic parameters, thermal, X-ray diffraction studies of newly synthesized octahedral copper complexes based on bromo-coumarins along with their antioxidant, anti-tubercular and antimicrobial activity evaluation. K. S. Patel, J. C. Patel, H. R. Dholariya and K. D. Patel, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (Elsevier), 96, 468-479, **2012**. ISSN No. 1386-1425
- ➡ Spectral, thermal, biological and multi-heating rate kinetic properties of Cu(II) complexes containing N₂O₂ donor ligands: 1,10-phenanthroline and acyl coumarins. J. C. Patel, H. R. Dholariya, K. S. Patel and K. D. Patel, *Applied Organometallic Chemistry* (Wiley), 26, 604–613, **2012**. ISSN No. 1099-0739
- ➡ Dicoumarol complexes of Cu(II) based on 1, 10-Phenanthroline: Synthesis, X-ray diffraction studies, thermal behavior and biological evaluation, H. R. Dholariya, K. S. Patel, J. C. Patel and K. D. Patel, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (Elsevier), 108, 319–328, **2013**. ISSN No. 1386-1425
- ➡ Synthesis of Cu(II), Ni(II), Co(II), and Mn(II) Complexes with ciprofloxacin and their evaluation of antimicrobial, antioxidant and anti-tubercular activity, K. S. Patel, J. C. Patel, H. R. Dholariya and K. D. Patel, *Ojmetal*, 2, 49-59, **2012**. ISSN No. 2164-2761
- ➡ Mechanical, thermal and improved fire retardant properties of reinforced polymer composite, T. K. Darji, J. C. Patel, K. S. Patel, H. R. Dholariya, V. K. Patel, K. D. Patel, *Alfa Universal-An International Journal of Chemistry*, Vol 3 (2), 57-64, **2012**. ISSN No- 2229-4775
- ➡ Synthesis, thermal and biological studies of newly synthesized Cu(II) complexes with ciprofloxacin based on bromo-coumarins derivatives, K. S. Patel, J. C. Patel, H. R. Dholariya, K. D. Patel. Synthesis and reactivity in inorganic, metal-organic and nano-metal chemistry, 43, 1049–1058, **2013**. ISSN No. 1553-3174
- ➡ Thermal, Kinetic, spectroscopic studies and antimicrobial, anti-tuberculosis, antioxidant properties of clioquinol and benzo-coumarin derivatives mixed complexes with copper ion, Hitesh R. Dholariya¹, Ketan S. Patel¹, Jiten C. Patel¹, Atul K. Patel^{2†} and Kanuprasad D. Patel¹ Med. Chem. Res. 22, 5848- 5860, **2013**. ISSN No. 1554-8120.

- ➡ Synthesis, Characterization and Biological Evaluation: Copper(II) Complexes of Hydroxy coumarins with Ciprofloxacin. A. K. Patel, J. C. Patel, H. R. Dholariya, K. S. Patel, V. K. Patel and K. D. Patel, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 4, (3) 564–579, **2013**. ISSN No. 0975-8585
- ➡ Studies of Newly Synthesized Octahedral Copper Complexes Based on Coumarins Along With their Antioxidant, Anti-Tubercular and Antimicrobial Activity Evaluation. A. K. Patel, J. C. Patel, H. R. Dholariya, K. S. Patel, V. K. Patel and K. D. Patel Journal Club for Pharmaceutical Sciences. 1, 1- 3, **2013**. ISSN No. 2321-8630
- ➡ Biological activity of newly synthesized M(II) heterochelates of coumarins derivative and Enrofloxacin, Ketan S Patel, Ravi B Patel, Rajarshi N Patel. Heterocyclic letters, 3: (4), 493-504, **2013**. ISSN No. 2231-3087
- ➡ Synthesis, Spectral, Thermal and Antibacterial Investigation of Ni(II) mixed ligand Complexes with Clloquinol and Coumarin derivative. G. J. Kharadi and K. S Patel. Heterocyclic letters, 3: (4), 481-491, **2013**. ISSN No. 2231-3087
- ➡ A novel and industrial approach for the synthesis of valsartan, Rajarshi N Patel, Ketan S Patel, Ravi B Patel. Heterocyclic letters, 3: (4), 513-518, **2013**. ISSN No. 2231-3087
- ➡ Thermal and Mechanical Properties of Adipic acid modified unsaturated polyester resin and jute composite, Ravi B Patel, Ketan S Patel, Rajarshi N Patel, IJPRS, 2: (4), 131-138, **2013**. ISSN No. 2277-7873
- ➡ Synthesis of Some Novel Pyrimidinone And Pyrimidine Derivatives And Their Antimicrobial Activity, Ketan S Patel, Rajarshi N Patel, Nilam C Boricha and Dharam M Pandya, Heterocyclic letters, 4: (1), 119-124, **2014**. ISSN No. 2231-3087
- ➡ Synthesis, Thermal Behavior And Biological Evaluation of Dicoumarol Cu(Ii) Complexes Based On Ciprofloxacin, Ketan S Patel, Rajarshi N Patel, Nilam C Boricha and Dharam M Pandya, Heterocyclic letters, 4: (1), 23-33, **2014**. ISSN No. 2231-3087
- ➡ Cu(II) and Ni(II) complexes of coumarin derivatives with fourth generation flouroquinolone: Synthesis, characterization, microbicidal and antioxidant assay, Jiten C. Patel, Hitesh R. Dholariya, Ketan S. Patel, Jaimin D Bhatt and Kanuprasad D. Patel¹ Med. Chem. Res, DOI 10.1007/s00044-014-0943-y. ISSN No. 1554-8120.
- ➡ Biological and Fluorescence Activity of Newly Synthesized Ni(II) Heterochelates, IJPRS, A. K. Patel, K. S. Patel, B. D. Patel and K. D. Patel, 3, (4), 92-102, **2014**.
- ➡ Thermal and mechanical properties of modified polyester resin and jute composite, R. B. Patel, K. S. Patel, R. N. Patel and K. D. Patel, Der Chemica Sinica, 5 (1):47-54, **2014**
- ➡ Chemical Study of Ground Water Taken From Highly Polluted Pond (Goya Talav) of Anand District (Gujarat), R. B. Patel, R. N. Patel, K. S. Patel, A. P. Desai JCAS, 2, (1), 9-14, **2015**.

- ➡ Study on Synthesis of Novel Chalcone Their Antimicrobial Activity, Rajarshi N. Patel, Ketan S. Patel, Mehul R. Chhasatia, Indu Baser, JCPS, 2, (1), 20-27, **2015**.
- ➡ Water Analysis Based on Physico-Chemical Parameters in Anand District, Gujarat, Patel KS, Patel RN, Chhasatiya MR, Baser I, Patel DS, IJPRS, 4, (2), 239-243, **2015**.
- ➡ Thermal and Biological Estimate and Characterization of Cu(II) Complexes Based on Getifloxacin, V.R.Chaudhari, K.S.Nimavat, K. S. Patel, K.B.Vyas, *J Pharm Sci Bioscientific Res.* 6(3):387-395, **2016**, ISSN NO. 2271-3681.
- ➡ Synthesis And Biological Assessment Of Octahedral Cu(Ii) Complexes Based On 1,10-Phenanthroline And Coumarin Derivative, K. S. Patel, *Heterocyclic Letters*, 6(2), 205-215, **2016**, ISSN : (print) 2231–3087 / (online) 2230-9632.
- ➡ Biological Evaluation Characterization of Dicoumarol Cu(II) Complexes based on Levofloxacin, K. S. Patel, Nilam C. Boricha, Shailesh V. Patel, *IJPRS*, V-5, I-1, **2016**, ISSN No: 2277 – 7873.
- ➡ A Novel Route for the Synthesis of Chemiluminescence, As a Crime Scene Investigation Compound, D.S. Patel, K.S. Patel, R.B. Patel, M.R. Chhasatia, J.R. Patel, A.J. Shah and R.N. Patel, *Research Journal of Forensic Sciences*, Vol. 4(8), 1-6, September (**2016**), E-ISSN 2321–1792.
- ➡ Synthesis and Biological assessment of Octahedral Cu(II) Complexes Based on Enrofloxacin and Coumarin derivative. Neelam C borecha, ketan S patel, Shailesh V Patel, *Heterocyclic Letters*, Vol. 7(3), 721-731, May-july (**2017**), **ISSN : (print) 2231–3087**.
- ➡ Study on Newly Synthesized of Metal Heterochelates Based on Norfloxacin And Dicoumarol Derivative: Biological Assessment. Ankit J Shah, ketan S patel, Dinesh S Patel, *World Journal of Pharmaceutical Research*, Vol. 6(4), 1130-1142, March (**2017**), **ISSN : 2277–7105**.

Books Published:

- ➡ Biscoumarin and their metal complexes, Jiten C patel, Ketan S Patel, Rajarshi N Patel, ISSN No-978-3-659-64592-1, 2015
- ➡ Basics of chalcone and related synthesis, Ketan S Patel, Jiten C patel, Rajarshi N Patel, ISSN No-978-3-659-74680-2, 2015
- ➡ Transition Metal Heterochelates containing coumarin and Clioquinol, Ketan S Patel, Jiten C patel, Rajarshi N Patel, ISSN No-978-3-659-74844-8, 2015.
- ➡ Chemistry of chalcone synthesis and its derivative, Rajarshi N Patel, Ketan S Patel, Jiten C patel, ISSN No-978-3-659-67230-9, 2015.

Conference/Seminar Presentations

- ❖ **Presented a Poster** entitled “*Effect of the thermal decomposition and in-vitro antimicrobial activity of mixed ligand copper(II) complexes*” at Professor RamChand Paul International Conference on “Emerging Trends in Chemistry” Organized by Department of Chemistry & Centre of Advance Studies in Chemistry, Panjab University, Chandigarh, held on 11-12th February, 2011.
- ❖ **Presented a Poster** entitled “*Glass Reinforced Polymer Composite Based on Epoxy Ester of Resacetophenone - fluorspar*” In the International Conference on” **Supramolecule and nanomaterials Research and applications**. Organized by Department of Chemistry, Gujarat University & GUJCOST – Department of Science & Technology, Government of Gujarat, India, Held on 6-8th February, 2012.
- ❖ **Presented a Poster** entitled “*Synthesis, Characterization and Antibacterial studies of mixed-ligand heterochelates*” “at national symposium on “Green Chemistry & Technology for Sustainable Development” Organized by G H Patel College of Engineering & Technology, Vallabh Vidyanagar, on 24-25th February, 2012.
- ❖ **Presented a Poster** in Two days national conference on “Emerging Trends in Chemical Science [ETCS-2018]” organized by Department of Chemistry, Y & M AKI’s Poona College of Arts, Science & Commerce, Camp, Pune-411001, Maharashtra on 9th & 10th February, 2018.

CONFERENCES/WORKSHOP/SEMINAR/SYMPOSIUM ATTENDED

- ❖ National seminar on “Research in Chemistry at the Crossing Edges of other Sciences” organized by N. V. Patel college of Pure and Applied Sciences, Vallabh Vidyanagar, on 8-9th November, 2009.
- ❖ Attended two days course on “Occupational Safety, Health and Hygiene in Laboratory” organized by GCET, Vallabh Vidyanagar, on 18-19th December 2009.
- ❖ International seminar on “Recent Developments in Structure and Ligand based Drug Design” at Department of Chemistry, Saurashtra University – Rajkot jointly organized by SCHRODINGER LLC, USA and Department of Chemistry, Saurashtra University, Rajkot, on 23rd December, 2009.
- ❖ Attended Vth GSA-VVN CSC Annual Science Meet held at Dept. of Mathematics, Sardar Patel University, Vallabh Vidyanagar jointly organized by Gujarat Science Academy-V.V.Nagar Chapter & C.C.Patel Community Science Center, on 14th February, 2010.
- ❖ Attended National Seminar on “Nanotechnology: Today & Tomorrow” organized by Chemical Engineering Department, Institute of Technology, Nirma University, Ahmedabad on 8th March, 2010.
- ❖ Attended a national level Symposium on: “Cutting Edge & Most Promising Research in Pharmaceuticals” organized by ARIBAS, New Vallabh Vidyanagar, Gujarat, on 18th December, 2010.
- ❖ Attended One day Seminar on “INNOVATIONS IN COLLEGIATE SCIENCE EDUCATION AND RESEARCH” at Electronic Department, V. P. & R. P. T. P. Science College, V. V. Nagar, on 8th January, 2011.
- ❖ National seminar on “Recent Advances in Analytical Techniques for Pharmaceuticals” organized by Department of Pharmaceutical Sciences, Sardar Patel University, Vallabh Vidyanagar, on 18th & 19th March, 2011.
- ❖ Attended Two day celebration of “INTERNATIONAL YEAR OF CHEMISTRY (IYC-2011)” sponsored by UGC, New Delhi, Organized by Chemistry Department, V. P. & R. P. T. P. Science College, V. V. Nagar, on 29th & 30th September, 2011.
- ❖ Attended Six day programme on “2nd Interaction Programme for Ph. D. Scholars (All Disciplines)” sponsored by UGC, New Delhi, Organized by Academic Staff College, Sardar Patel University, V. V. Nagar on 19th & 24th March, 2012.

