

### **List of Published / Accepted Papers**

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2. Physico-Chemical Studies on the mixed Ligand Complexes of Cr(II) Nitrilotriacetate with some phenols and Phenolic Acids. *J. Ind. Chem. Soc.*, LXI, 293 (1984).
3. Thermodynamics for the formation Maleanilic Acids Complexes of Lanthanide (III) Ions. *J. Ind. Chem.Soc*, LX, 920 (1983).
4. Thermodynamics for the Interactions of Bivalent Transition Metal Ions with Maleanilic Acids. *Ind. J. Chem.*, 24A (10), 883 (1985).
5. Cysteine as a Selective Reagent for the Spectrophotometric Determination of Osmium(VIII). *J. Ind. Chem. Soc.*, LXII, 397 (1985).
6. Preparation and characterization of some Complexes of Amino Acids with Fe(III) Phthalimide, *Indian J. Chem.* 24A(9), 797 (1985).
7. Physico-Chemical Studies on the Mixed Ligand Complexes of some Heterocyclic amines with Pd.(II), Pt(II), Ir(III), Rh(III) and Pt(IV) Phthalimides. *J. Acta Chimica Hung.*, 123(3-4), 107 (1986).
8. Thermochemistry for the formation of Cysteinate Complex of Rhodium(III). *Thermo Chemica Acta V*, 90, 1, (1985).
9. Thermodynamics of the Interaction of Bivalent Transition Metal ions with Phthalanilic Acids. *J. Ind. Chem. Soc.*, LxI (1984).
10. Transition Metal Complexes of the Schiff Bases Derive from 2-amino-4-phenyl-5-arylazo-thiaziles and Salicylaldehyde. *Synth. react. Inorg. Met-Org. Chem.*, 16(2), 243 (1986).
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15. Synthesis, characterization and ion exchange properties of a new Inorganic ion exchange material: Zirconium (IV) iodo-succinate. Asian Journal of Chemistry, 19(1), 2007, 205-208.
16. Modeling of Cyto-toxicity on some Non Nucleoside Reverse Transcriptase Inhibitors of HIV-1: Role of Physicochemical parameters. Arkivoc 2006 (ii) pp. 1-13.
17. 2D, 3D Modeling of Inhibition activity of Reverse Transcriptase-1 by HEPT derivatives. Asian Journal of Biochemistry, 2(2), 2007, 84-100.
18. 2D and 3D QSAR: Modeling of TIBO Derivatives as Reverse Transcriptase Inhibitors. Asian Journal of Biochemistry, 3(2) 62-78, 2008.
19. Organochlorine and organophosphates in Bovine Milk Samples in Allahabad Region. Int. J. Environ.Res, 2(2), 165-168, 2008.
20. Antihepatotoxic effect of Feronia limonia fruit against CCl<sub>4</sub> induced hepatic damage in albino rats. Chinese Medicine (CM). 2010,1,18-22.
21. The possible hepatoprotective activity of Eclipta alba whole plant extract against CCl<sub>4</sub>. Natural Products: An Indian Journal, Vol.5, Issue3,2009.
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25. Chitosan Modification through Natural Route: Development of Ag/CS-g-PAAm Using Curucuma Longa.JCMRD,1(1), 23-27,2012.

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27. Mythology Converges With Technology to Combat Biomaterials Associated Infections. International Journal of Engineering Research and Applications (IJERA), Vol. 2(4), July-August, 2012, pp.1490-1495.
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29. Application of polymer nanocomposites in the nanomedicine landscape: Envisaging strategies to combat implant associated infections. A Review. Poushpi Dwivedi, Shahid S. Narvi, Ravi P. Tewari J Appl Biomater Funct. Mater. Società Italiana Biomateriali, 11 (3), 129-142, 2013.
30. Phytofabrication characterization and comparative analysis of Agnanoparticles by diverse biochemicals from *Elaeocarpus ganitrus* Roxb., *Terminalia arjuna* Roxb., *Pseudotsuga menzietii*, *Prosopis spicigera*, *Ficus religiosa*, *Ocimum sanctum*, *Curcuma longa*. Poushpi Dwivedi, Shahid S. Narvi, Ravi P. Tewari Industrial Crops and Products, Elsevier, 54 (2014) 22– 31.
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32. Green Route to a Novel Ag/PLGA Bionanocomposite: A Self-Sterilizing Surgical Suture Biomaterial, Poushpi Dwivedi, S.S. Narvi and R.P. Tewari International Journal of Advances in Engineering, Science and Technology (IAEST), Vol. 2 No. 3 Aug-Oct 2012.
33. Novel Scientific Appraisal of *Elaeocarpus ganitrus* the Rudraksha: Nano Silver Synthesis with Aspects of Variation in Concentration Antimicrobial Activity and *In vitro* compatibility. Poushpi Dwivedi\*, Shahid S. Narvi<sup>1</sup> and Ravi P. Tewari, Annual Research & Review in Biology, 4(7): 1059-1069, 2014. [Book Chapter]

34. Silver nanoparticles and nanocomposites. Poushpi Dwivedi, S.S.Narvi and R.P. Tewari, Encyclopedia of Biomedical Polymers and Polymeric Biomaterials, Taylor & Francis, Vol. 10,2014.(**Book Chapter**)
35. Diaquabis(nicotinamide- $\kappa$ N1)bis(thiocyanato- $\kappa$ S)cobalt(II) Deepanjali Pandey, Shahid S. Narvi and Siddhartha Chaudhuri Acta Cryst. (2014). E70, m236
36. Diaquabis(nicotinamide- $\kappa$ N1)bis(thiocyanato- $\kappa$ N)nickel(II) Deepanjali Pandey, Shahid S. Narvi, Gopal K. Mehrotra and Raymond J. Butcher Acta Cryst. (2014). E70, m183
37. Supramolecular Hydrogen Bonded 3D Molecular Self Assembly Constructed from [(Co(nicotinamide)<sub>2</sub>(thiocyanate)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>] Complex Showing Anti-ferromagnetic Character Deepanjali Pandey\* Shahid S.Narvi and Siddhartha Chaudhuri, Journal of Advances in Chemistry, Vol. 10, No. 6,2014, 2864-2873.
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40. Overwhelming Antibacterial Activity by Terminalia arjuna Aided Herbal Ag/CS-PVC: Nanocomposite for Overcoming Biomaterials Associated Infections Poushpi Dwivedi, Shahid S. Narvi, and Ravi P. Tewari, Adv. Sci. Eng. Med. 7, 82-90 (2015)
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43. Structure based virtual screening for identification of potential quorum sensing inhibitors against LasR master regulator in *Pseudomonas aeruginosa*. Manmohit Kalia , Pradeep Kumar Singh , Vivek Kumar Yadav, Birendra Singh Yadav, Deepmala Sharma , Sahid Suhail Narvi Ashutosh Mani a, Vishnu Agarwal ,Microbial Pathogenesis 107 (2017) 136e143.
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46. Synthesis and Characterization of MOF Compound Based on Azide ( $N_3^-$ ) and Nicotinamide ligands with Cd(II), $[Cd_3(\mu-N_3)_4 (Nicotinamide)_2]H_2O$ . Deepanjali Pandey<sup>1</sup>, Shahid S. Narvi<sup>2</sup>, Siddhartha Chaudhri<sup>3</sup>, International Journal of Creative Research Thoughts [UGC App.] Vol.5 (3), 314-329, 2017
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49. Diversified Phases of Surface Coatings In Automobile Industries. Shambhu Sharan Kumar, S.S. Narvi and N.D. Pandey Journal of Research in Engineering and Applied Sciences Vol. 01, Issue 02, April 2016, 103-110.

50. STUDY ON EFFECTS OF MICRON AND NANO ZINC OXIDE PIGMENTS ON AIR DRYING PROPERTY OF ALKYD PAINTS  
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51. Synthesis and Characterization of Heterogeneous Reusable Green Catalyst by Anchoring Metal Complex onto Phosphotungstic Acid and Study of its Catalytic Behaviour. Shiva Arun, Amreen Naz, Shahid Suhail Narvi and N D Pandey i-manager's Journal on Material Science, Vol. 5 No. 1, 1-8, 2017.
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54. Cu(II)-Carboxymethyl Chitosan-Silane Schiff Base Complex Grafted on Nano Silica: Structural Evolution, Antibacterial Performance and Dye Degradation Ability. Amreen Naza, Shiva Aruna, Shahid Suhail Narvia\*, Mohammad Siraj Alamb, Anu Singha, Prabha Bhartiya, and P.K.Dutta\*  
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55. Hydrothermal Synthesis and Crystal Structure of 3D Hydrogen Bonded Framework Obtained by Linear Chain [Ni(pyridine 2,6 dicarboxylic acid)<sub>2</sub>(K)<sub>2</sub>7(H<sub>2</sub>O)]<sub>n</sub>, polymer. Deepanjali Pandey & Narvi, SS. International Journal of Scientific Development and Research (IJS DR), **September 2017 IJS DR | Volume 2, Issue 9,164-175** (Impact Factor- 5.47)
56. Synthesis of Novel Ruthenium Complex and its Polyoxometalate Hybrid : Characterization and Catalytic Applications.

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57. Nano-Silica Supported Chitosan-Schiff's Base Cu (II) Hybrid: Synthesis, Characterization and Antibacterial study.

AMREEN NAZ, SHIVA ARUN, SHAHID SUHAIL NARVI\*, M. SIRAJ ALAM AND P.K. DUTTA  
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Shiva Arun<sup>a</sup>, Yadvendra Singh<sup>a</sup>, Amreen Naz<sup>a</sup>, Prabha Bhartiya<sup>a</sup>,  
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Shiva Arun\*, Yadvendra Singh, Amreen Naz and Shahid Suhail Narvi  
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61. Exploring the impact of parthenolide as anti-quorum sensing and antibiofilm agent against *Pseudomonas aeruginosa*

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62. Designing quorum sensing inhibitors of *Pseudomonas aeruginosa* utilizing FabI: an enzymic drug target from fatty acid synthesis pathway.

Manmohit Kalia<sup>1</sup> · Vivek Kumar Yadav<sup>1</sup> · Pradeep Kumar Singh<sup>1</sup> · Suhaga Dohare<sup>1</sup> ·  
Deepmala Sharma<sup>2</sup> Shahid Suhail Narvi<sup>3</sup> · Vishnu Agarwal<sup>1</sup>  
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63. Metal–Organic Frameworks and its Application as Molecular Magnets  
Deepanjali Pandey<sup>1,\*</sup>, Shahid S. Narvi<sup>2</sup>  
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64. *Curcuma longa* Aided Ag/CS Nanocomposite Coating of Surfaces as SARS-CoV-2 Contamination Minimizing Measure Towards Containment of COVID-19: a Perspective

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67. *Senna alexandriana* Mill as a Potential Inhibitor for Quorum Sensing-Controlled Virulence Factors and Biofilm Formation in *Pseudomonas aeruginosa* PAO1

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68. Crystal Structure and Magnetic Properties of Cu(II) Dinuclear complex with Equatorial-Axial Bridging Thiocyanate ligand: Showing Ferromagnetic coupling

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70. Mesoporous silica based Cu (II)-metalated Inorganic-Organic hybrid material:



Synthesis, characterization and its evaluation for drug delivery, antibacterial, antioxidant and anticancer activities

AmreenNaz<sup>a</sup>, PrabhaBhartiya<sup>a</sup>, Ruby Kumari<sup>a</sup>, Shiva Arun<sup>a</sup>, ShahidSuhailNarvi<sup>a</sup>, Mohammad Siraj Alam<sup>b\*</sup> and P.K.Dutta<sup>a</sup> (Communicated).

71. Solvothermal synthesis of heterogeneous catalyst consisting of polyoxometalate-based metal complex: Characterization and comparative catalytic study with metal complex”.

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72. Efficient and Reusable Cu (II)-metalated Silica-based Inorganic-Organic Hybrid Catalyst for Dye Degradation

Amreen Naz<sup>a</sup>, Shiva Arun<sup>b</sup>, Vidya Singh<sup>a†</sup>, Shahid Suhail Narvi<sup>a</sup>, Mohammad Siraj Alam<sup>c\*</sup> and P. K. Dutta<sup>a\*</sup> (Communicated to JICS-Under Review).

73. Thiol modified chitosan–silica nanohybrid for antibacterial, antioxidant and drug delivery application

RubyKumari, S.S.Narvi\*&P.K.Dutta\*  
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74. Valorization of Cellulosic and SAP Based Baby Diaper Waste into Functional Products: Analyses and Bioenergy Potential.

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[A Book Chapter]

75. Mesoporous silica based Fe (II)-metalated Inorganic-Organic hybrid material: Synthesis, characterization and its evaluation for drug delivery, antibacterial and antioxidant activities.

Amreen Naz<sup>a</sup>, Ruby Kumari<sup>a</sup>, Shiva Arun<sup>b</sup>, Shahid Suhail Narvi<sup>a</sup>, Mohammad Siraj Alam<sup>c\*</sup> and P. K. Dutta<sup>a</sup> (To be Communicated ).

## Book Published

### 1. Magnetic Interactions in Metal Organic Framework Compounds

Deepanjali Pandey and S.S.Narvi

Lambert Academic Publishing, ISBN: 978-620-2-01132-7.

## **2. Nano Biotechnology for safe Bioactive Nanobiomaterials**

Poushpi Dwivedi, S.S.Narvi, Ravi P. Tewari & Dhanesh Tiwary

**CRC Press, Talor & Francis (Manuscript Accepted)**

### **LIST OF PAPERS IN CONFERENCES**

1. Synthesis of Chitosan-Formaldehyde/Starch Blend Hydrogel Film and effect of Starch on Equilibrium swelling properties. Proceeding of 2nd International Congress of Chemistry & Environment held on 24-26 Dec 2005, pp 418-422.
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3. Swelling Behavior of Metal Ion Incorporated Chitosan Hydrogel Film Crosslinked with Formaldehyde. International Conference on Design of Biomaterials (BIND-06) held on 8th-11th December 2006 at IIT Kanpur.(oral)
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13. Natural Route to a Novel Nanocomposite Biomaterial: An Embodiment for the Abatement of Implant Associated Infection, IEEE Xplore. Proceedings of International Conference on Nanoscience, Technology and Societal Implications, NSTIII, Dec. 8-10,2011.
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15. Synthesis and Characterisation of Silica Based Inorganic-Organic Hybrid as an Efficient Heterogeneous Catalyst., Amreen Naz, Shiva Arun, ShahidSuhail Narvi, M. Siraj Alam International Conference on “Recent Advances in Chemical Sciences” Department of Chemistry, Aligarh Muslim University, India., March 29-30, 2016.
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18. Synthesis Characterization and Water Absorption Behaviour of Chitosan-g-Poly Acryamide/Bentonite Superabsorbent Composite. 11th Asia Pacific Chitin and Chitosan Conference, Ernakulam, Kerala 28-30, September, 2016.
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20. Ag/CS-PVC Nano Composite Material with Remarkable Antimicrobial Response. Poushpi Dwivedi, Shahid S.Narvi and Ravi P.Tewari, ISAET 2013, Oct. 4-5, 2013. Dubai, UAE [ Paper Id: D1013072, Oral].
21. “Drug Delivery, Antioxidant and Antibacterial Studies of Nano-Silica Supported Cu (II)-Metalated Inorganic-Organic Hybrid Material, **National Conference:** Industrial Application of Nanoscience and Nanotechnology (IANN-2019), MNNIT Allahabad, India, 15<sup>th</sup>-16<sup>th</sup> November, 2019.
22. Synthesis, Characterization and Antibacterial Assessment of Nano-Silica Supported Chitosan-Schiff’s Base Cu (II)-Hybrid, **National Conference:** Polymers: Usefulness and Current Concerns, MNNIT Allahabad, India, 23<sup>rd</sup>-24<sup>th</sup> December, 2018.
23. Antibacterial Evaluation of a Cu(II)-metalated nano-Silica-Chitosan based Inorganic-Organic Hybrid, **Meeting:** 7<sup>th</sup> Indian Chitin and Chitosan Society Meeting, CSIR-National Chemical Laboratory, Pune, India, 11<sup>th</sup>-13<sup>th</sup> October, 2018.
24. “Carboxymethyl Chitosan Schiff Base Modified Mesoporous Silica Based Ph-Responsive Drug Delivery Vehicle for Curcumin”, **International Conference:** Innovations and Translational Dimensions: Food, Health and Environmental Biotechnology (Biosangam-2018), MNNIT Allahabad, India, 9<sup>th</sup>-11<sup>th</sup> March, 2018.

25. “Study of dye degradation by silica-based inorganic-organic hybrid as a heterogeneous catalyst”, **National Seminar:** Reaching the Unreached through Science and Technology, University of Allahabad, India, 24<sup>th</sup>-25<sup>th</sup> February, 2018.
26. Synthesis, Characterization and Antibacterial Study of Cu(II) Metallated Carboxymethyl Chitosan-Schiff Base Immobilized on Nano-Silica”, **International Conference:** Biotechnological Aspects of Chitosans and Chitooligosaccharides (ICBACC) & 6th Indian Chitin and Chitosan Society Symposium, University of Hyderabad, India, 21<sup>st</sup>-22<sup>nd</sup> September 2017.
27. “A Novel Silica Based Inorganic-Organic Hybrid: Study for Dye Degradation and Tetralin Oxidation”, **National Seminar:** Science and Technology for National Development, University of Allahabad, India, 11<sup>th</sup>–13<sup>th</sup> February 2017.
28. Thiol modified mesoporous silica MCM-41 Nanoparticles linked to thiolated chitosan via disulfide bond for antibacterial and antioxidant activity” for Poster Presentation in “Indian Chitin Chitosan Society Symposium, 19-20th September (ICT-Mumbai), 2019”.
29. Submitted abstract on “Synthesis of Inorganic-Organic Hybrid Materials and their application in drug delivery, antibacterial and antioxidant activity” for Poster Presentation in “Industrial Application of Nanoscale and Nanotechnology (IANN), November 15-16<sup>th</sup>, 2019”.
30. Synthesis of Polymer coated MCM-41 nanohybrid and its Application in Antibacterial, Antioxidant and Drug Delivery” in the 57th Annual Convention of Chemists (ACC), 2020 & International Conference on “Recent Trends in Chemical Sciences (RTCS-2020)” organized by the Indian Chemical Society (ICS), IISER Kolkata during December 26-29th, 2020.
31. Synthesis of Chitosan Succinate–g–Amine Functionalized Mesoporous Silica:

Inorganic-Organic Nanohybrid for Antibacterial Assessment”

The 9th Indian Chitin & Chitosan Society Symposium 2021 (9th ICCSS 2021)

during 26th to 28th February 2021.