

## **Publications (2012-2013)**

### **School of Basic Sciences**

#### **Journals:**

1. J. Bamkim Sanghavi, M. Mobin Shaikh, P. Mathur, K.Goutam Lahiri, K. Ashwini Srivastava, "Biomimetic sensor for certain catecholamines employing copper(II) complex and silver nanoparticle modified glassy carbon paste electrode", *Biosensors & Bioelectronics*. 2013, 39(1), 124-132.
2. Yury Torubaev, P. Mathur, Badrinath Jha, M. Mobin Shaikh. I.V.J.Skabitsky, "Cyclodimerization of phenyliodoacetylene with elemental tellurium: New pathway to 1,3-ditellurofulvenes" *Organomet. Chem*, 2012, 696(2), 496-503.
3. Badrinath Jha, P. Mathur, K.Raj Joshi, M. Mobin Shaikh, "Distinguished role of iron pentacarbonyl toward the reaction of acetylenes and isocyanates under photochemical and thermal reaction conditions" *Abstracts of Papers, 243rd ACS National Meeting & Exposition*. 2012, INOR-1195.
4. Veena Dhayal, Archana Chaudhary, Banwari Lal Choudhary, Meena Nagar, Rakesh Bohra, M. Mobin Shaikh, P. Mathur, "Molecular precursors for the preparation of homogenous zirconia-silica materials by hydrolytic sol-gel process in organic media" *Dalton Trans*. 2012, 41(31), 9439-9450, .
5. P. Mathur, Raj Kumar Joshi, Dharendra Kumar Rai, Badrinath Jha, M. Mobin Shaikh, "One pot synthesis of maleimide and hydantoin by Fe(CO)<sub>5</sub> catalyzed [2 + 2 + 1] co-cyclization of acetylene, isocyanate and CO" *Dalton Trans*. 2012, 41(16), 5045-5054.
6. Yury Torubaev, Alexander Pasynskii, P. Mathur, " Organotellurium halides: New ligands for transition metal complexes" , *Coordination Chemistry Reviews*. 2012, 256(5-8), 709-721.
7. P. Mathur, Badrinath Jha, Abhinav Raghuvanshi, Raj Kumar Joshi, M. Mobin Shaikh, "Photolytic reaction of substituted (ethynyl)benzaldehyde and Fe(CO)<sub>5</sub>: Formation of indenone and chelated iron complexes" *J. Organomet. Chem*. 2012, 712, 7-14.
8. K. Dharendra Rai, Mohd. Tauqeer, M. Mobin Shaikh, P. Mathur, "Reaction of 3-ferrocenylpropynal with iron carbonyl and chalcogenised iron carbonyl clusters: Formation of new ligands" *Abstracts of Papers, 243rd ACS National Meeting & Exposition*, 2012. INOR-994.
9. P. Mathur, Radhe Shyam Ji, Dharendra K. Rai, Abhinav Raghuvanshi, M. Mobin Shaikh, "Role of Sulfur in Influencing Contrasting Reactivity of Acetylene Bonds in 1-Ferrocenyl-4-phenyl-1,3-butadiyne in Cluster Forming Reaction" *J. Cluster Sci*. 2012, 23(3), 615-625.
10. P. Mathur, Radhe Shyam Ji, Mohd.Tauqeer, Goutam K. Lahiri, M. Mobin Shaikh, "Synthesis and characterization of a novel unfused 1, 4-diselenine" *J. Organomet. Chem*. 2012, 721-722, 186-189.

11. P. Mathur, Dharendra K. Rai, Mohd. Tauqeer, Raj K. Joshi, Goutam K. Lahiri, M. Mobin Shaikh, "Synthesis, structure and redox property of first 1,2,3-triselenole", *J. Organomet. Chem.* 2012, 721-722, 144-147.
12. Tamalika Bhattacharya, Tridib K. Sarma, Sampak Samanta, "Self-assembled monolayer coated gold-nanoparticle catalyzed aerobic oxidation of  $\alpha$ -hydroxy ketones in water: an efficient one-pot synthesis of quinoxaline derivatives" *Catal. Sci. Technol.*, 2012, 2, 2216-2220.
13. Rekha Sharma, Ramesh Margani, Shaikh M. Mobi, Rajneesh Misra, "[Ferrocenyl substituted calixarenes: synthesis, structure and properties](#)", *RSC Adv.*, 2013, 3, 5785-5788.
14. Thaksen Jadhav, Ramesh Maragani, Rajneesh Misra, V. Sreeramulu, D. Narayana Rao, M. Mobin Shaikh, "[Design and synthesis of donor-acceptor pyrazabole derivatives for multiphoton absorption](#)", *Dalton Trans.*, 2013, 42, 4340-4342.
15. Ramesh Maragani, Thaksen Jadhav, M. Mobin Shaikh, Rajneesh Misra, "[C3 symmetric ferrocenyl triazines: synthesis, structure, and properties](#)", *RSC Adv.*, 2013, 3, 2889-2892.
16. Rekha Sharma, Prabhat Gautam, M. Mobin Shaikh, Rajneesh Misra, " [\$\beta\$ -Substituted ferrocenyl porphyrins: synthesis, structure, and properties](#)", *Dalton Trans.*, 2013, 42, 5539-5545.
17. Bhausahab Dhokale, Prabhat Gautam, M. Mobin Shaikh, Rajneesh Misra, "Donor-acceptor, ferrocenyl substituted BODIPYs with marvelous supramolecular interactions", *Dalton Trans.*, 2013, 42, 1512-1518.
18. Rajneesh Misra, Prabhat Gautam, Thaksen Jadhav, M. Mobin Shaikh, "Donor-Acceptor Ferrocenyl Substituted Benzothiadiazoles: Synthesis, Structure and Properties", *J. Org. Chem.*, 2013, DOI: 10.1021/jo4005734.
19. Prabhat Gautam, Bhausahab Dhokale, M. Mobin Shaikh, Rajneesh Misra, "Ferrocenyl BODIPYs: synthesis, structure and properties" *RSC Advances*, 2012, 2, 12105-12107.
20. Bhausahab Dhokale, Prabhat Gautam, S. M. Mobin, Rajneesh Misra, "Donor acceptor ferrocenyl BODIPYs with marvelous supramolecular interactions". *Dalton Transactions*, 2012, DOI: 10.1039/C2DT31632C.
21. Ramesh Maragani, Thaksen Jadhav, M. Mobin Shaikh, Rajneesh Misra, "Synthesis, structure, photophysical, and electrochemical properties of donor acceptor ferrocenyl derivatives", *Tetrahedron* 2012, 68, 7302-7308
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23. Bhausahab Dhokale, Prabhat Gautam, and Rajneesh Misra, "Donor-Acceptor Perylenediimide-Ferrocene conjugates: synthesis, photophysical, and electrochemical properties". *Tetrahedron Lett.* 53, 2012, 2352-2354.

24. D. B. Rasale, I. Maity, M. Konda, A. K. Das , “Peptide Self-assembly Driven by Oxester Mediated Native Chemical Ligation”, *Chemical Communications*, 2013, In press.
25. I. Maity, D. B. Rasale, A. K. Das, “Exploiting a Self-assembly Driven Dynamic Nanostructured Library”, *RSC Advances*, 2013, In press.
26. D. B. Rasale, I. Maity, A. K. Das , “Emerging pi-stacked Dynamic Nanostructured Library”, *RSC Advances*, 2012, 2, 9791-9794.
27. Maity, D. B. Rasale, A. K. Das, “Sonication Induced Peptide-appended Bolaamphiphile Hydrogels for in situ Generation and Catalytic Activity of Pt Nanoparticles”, *Soft Matter*, 2012, 8, 5301-5308.
28. Raina Thakur, Anupam Das and Anjan Chakraborty , “Fate of Anticancer Drug Ellipticine in Reverse Micelles in Aqueous and Methanolic Environment: A Photophysical Approach”, *Chem. Phys. Lett.*, 2013, 563, 37.
29. Raina Thakur, Anupam Das and Anjan Chakraborty, “Photophysical and Photodynamical Study of Ellipticine: An Anticancer Drug Molecule in Bile Salt Modulated in Vitro Created Liposome Phys”. *Chem. Chem. Phys.* 2012, 14, 15369.
30. Raina Thakur, Arabinda Mallick and Anjan Chakraborty, “Photophysical and Photodynamical Study of Fluoroquinolone Drug Molecule in Bile Salt Aggregates” *Photochem. Photobiol.*, 2012, 88, 1248.
31. Pradeep Kumar Jaiswal, Soumen Biswas, Shivendra Singh, Biswarup Pathak, M. Mobin Shaikh, Sampak Samanta, “Stereoselective synthesis of highly functionalized tetrahydrocarbazoles through a domino Michael-Henry reaction: an easy access of four contiguous chiral centers”, *RSC Advances* 2013, in press.
32. Debashis Majee, Anvita Srivastava, M. Mobin Shaikh, Sampak Samanta, “L-Proline catalyzed highly efficient synthesis of Z-5-alkylidene cyclic sulfamidate imines: An easy access of 5-alkyl-substituted-4-aryl-cyclic sulfamidate imines”, *RSC Advances* 2013, in press.
33. Anvita Srivastava, Shivendra Singh, Sampak Samanta, “(±)-CSA catalyzed Friedel-Crafts alkylation of indoles with 3-ethoxycarbonyl-3-hydroxyisoindolin-1-one: An easy access of 3-ethoxycarbonyl-3-indolylisoindolin-1-ones bearing a quaternary  $\alpha$ -amino acid moiety”, *Tetrahedron Letters* 2013, 54, 1448.
34. Shivendra Singh, Anvita Srivastava, Sampak Samanta , “Rapid access of 2,3,4-trisubstituted-2,3,4,9-tetrahydrothiopyrano[2,3-b]indole derivatives via one-pot three component reaction using organocatalysis”, *Tetrahedron Letters*, 2012, 53, 6087.
35. Tamalika Bhattacharya, Tridib K Sarma, Sampak Samanta, “Self-assembled monolayer coated gold-nanoparticle catalyzed aerobic oxidation of  $\alpha$ -hydroxy ketones in water: an efficient one-pot synthesis of quinoxaline derivatives” *Catal. Sci. Technol.* 2012, 2, 2216.
36. M. Saha, Nasani, R., Shaikh, M. M., Pathak, B., Mukhopadhyay, The effect of remote substitution on formation of preferential geometrical isomer of cobalt(III)-tetrazolato complexes formed via [2 + 3] cycloaddition Saha, M.; Nasani, R., Shaikh, M. M., Pathak,

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37. R. Nasani, M. Saha, M.M. Shaikh, Mukhopadhyay, "Microwave synthesis of mono- and bis-tetrazolato complexes via 1,3 - dipolar cycloaddition of organonitriles with nickel(II)-bound azides: Isolation of 5-substituted tetrazoles from parent complex", S, Polyhedron, 2013, 55, 24.
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39. S. Chatterjee, T.K. Mukherjee, "Size Dependent Differential Interaction of Allylamine Capped Silicon Quantum Dots with Surfactant Assemblies Studied using Photoluminescence Spectroscopy and Imaging Technique", J. Phys. Chem. C, 2013, 117, 10799.
40. M. Mobin Shaikh, V. Mishra, P.Ram, A. Birla, P. Mathur, "Formation of a 1D-polymeric chain of Hg building blocks through C-C coupling under ambient conditions" Dalton Trans., 2013, DOI: 10.1039/c3dt51213d
41. M. Mobin Shaikh, V. Mishra, P. Ram, A.Birla, "Bis [(2-(2-hydroxymethyl)pyridine- $k^2N,O$ )(pivalate- $k O^1$ ) Copper (II)]", Acta Cryst. Sec. E., 2012, E68, m1055.
42. Sanjay K. Singh, Munendra Yadav, Silke Behrens, Peter W. Roesky, "Au-based Bimetallic Nanoparticles for the Intramolecular Aminoalkene Hydroamination", Dalton Trans., DOI: 10.1039/c3dt50652e, 2013, in press.
43. Sanjay K. Singh, "Nanocatalysts for Hydrogen Generation from Hydrazine, , Qiang Xu, Catal.Sci.Techol.,DOI:10.1039/C3CY00101F, 2013", Advance Article (Perspective).
44. J. Prasongkit, A. Grigoriev, Biswarup Pathak, R. Ahuja, and R.H. Scheicher, "Transverse Electronic Transport through DNA Nucleotides with Functionalized Graphene Electrodes", [Arkivoc:1202.3040](#) 2013, (in press).
45. Peng Liu, Jawad Nisar, Baisheng Sa, Biswarup Pathak, R. Ahuja, "Anion-Anion Mediated Coupling in Layered Perovskite La<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub> for Visible Light Photocatalysis", Journal of Physical Chemistry C, 2013, (in press).
46. Yunguo Li, Abir De Sarkar, Biswarup Pathak, Rajeev Ahuja, "Strain-induced Stabilization of Al Functionalization in Graphene Oxide Nanosheet for Enhanced NH<sub>3</sub> Storage", [Applied Physics Lett.](#) 2013, (in Press).
47. Pradeep Kumar Jaiswal, Soumen Biswas, Shivendra Singh, Biswarup Pathak, Shaikh M. Mobin and Sampak Samanta "Stereoselective Synthesis of Highly Functionalized Tetrahydrocarbazoles through a Domino Michael-Henry Reaction: an Easy Access of Four Contiguous Chiral Centers", [RSC Advances](#), 2013 (in Press).
48. Pradeep Mathur, Radhe Shyam Ji, Biswarup Pathak, M. Mobin Shaikh, "Formation of (E)-[FcC(PS<sub>2</sub>(OR)<sub>2</sub>)=CH(PS<sub>2</sub>(OR)<sub>2</sub>)] (R = Me, Et, iPr) in Photolytic Reactions of Ferrocenylacetylene and [(RO)<sub>2</sub>PS<sub>2</sub>H] in Hexane/Alcohols: Experimental and DFT

study”, [Journal of Organometallic Chemistry](#), 2013 (in Press).

49. Manideepa Saha, Rajender Nasani, Shaikh M Mobin, Biswarup Pathak, Suman Mukhopadhyay, “The Effect of Remote Substitution on Formation of Preferential Geometrical Isomer of cobalt(III)-tetrazolato Complexes Formed via [2+3] Cycloaddition”, [Inorganic Chemistry Communications](#) 34, 62-67, 2013.
50. Yunguo Li, Biswarup Pathak, Jawad Nisar, Zhao Qian and R. Ahuja, “Metal-Decorated Graphene Oxide for Ammonia Adsorptions”, *Euro Physics Letter* (in press) 2013.
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52. Peng Liu, Jawad Nisar, Rajeev Ahuja, Biswarup Patha, “Layered Perovskite  $Sr_2Ta_2O_7$  for Visible Light Photocatalysis: A First Principles Study, k” , [Journal of Physical Chemistry C](#), 117, 5043-5050, 2013.
53. Xue Jiang, Jawad Nisar, Biswarup Pathak, Jijun Zha, Rajeev Ahuja, “Graphene oxide as a chemically tunable 2-D material for visible-light photocatalyst applications”, [Journal of Catalysis](#), 299, 204-213, 2013.
54. Z. Qian, S. Li, Biswarup Pathak, C. Moyses Araujo, R. Ahuja, Puru Jena , “ $C_{60}$ -Mediated Hydrogen Desorption in Li-N-H Systems”, [Nanotechnology](#), 23, 485406, 2012.
55. Jawad Nisar, Xue Jiang, Biswarup Pathak, Jijun Zhao, R. Ahuja, “Semiconducting allotrope of grapheme”, [Nanotechnology](#), 23, 385704, 2012.
56. T. Hussain, Biswarup Pathak, T. A. Maark, M. Ramzan, R. Ahuja, “ Functionalization of graphene with alkali and alkaline-earth metals: An insulator to metallic transition”, [Euro Physics Letter](#), 99, 47004, 2012.
57. Jiayin Shen, Venkatesh Chelvam, Gregory Cresswell, Philip S. Low, “Use of Folate-conjugated Imaging Agents to Target Alternatively Activated Macrophages in a Murine Model of Asthma”, *Molecular Pharmaceutics*, 2013, 10, 1918–1927.
58. Kelderhouse Lindsay, Chelvam Venkatesh, Wayua Charity, Mahalingam Sakkarapalayam, Poh Scott, “Development of Tumor-Targeted Near Infrared Probes for Fluorescence Guided Surgery” , Kularatne Sumith, Low Philip Bioconjugate Chemistry, 2013, 24, 1075-1080.
59. , V. Gaiind, H.-R. Tsai, K. J. Webb, V. Chelvam, P. S. Low , “Small animal optical diffusion tomography with targeted fluorescence”, *J. Opt. Soc. Am. A*. 2013, 30, 1146-1154.
60. H.-R. Tsai, B. Z. Bentz, V. Chelvam, V. Gaiind, K. J. Webb, P. S. Low , “In vivo optical imaging of kinetics in a small animal for folate-targeted drug development” , *Optics in the Life Science*, 2013.
61. Safique Ahmad, “ Backward errors for eigenvalues and eigenvectors of Hermitian, skew-Hermitian, H-even, and H-odd matrix polynomials” accepted in *Linear and Multi-linear Algebra*, pp. 1-23, Volume 1, Year 2012. (with V. Mehrmann).

62. Swadesh K. Sahoo, “ On the stability of phi-uniform domains (with R. Klen, Y. Li and M. Vuorinen)” , Accepted in *Monatshefte für Mathematik*, published by Springer.
63. Jiayin Shen, Venkatesh Chelvam, Gregory Cresswell, Philip S. Low, “Use of Folate-conjugated Imaging Agents to Target Alternatively Activated Macrophages in a Murine Model of Asthma”, *Molecular Pharmaceutics*, 2013, 10, 1918–1927.
64. Kelderhouse Lindsay, Chelvam Venkatesh, Wayua Charity, Mahalingam Sakkarapalayam, Poh Scott, Kularatne Sumith, Low Philip., “Development of Tumor-Targeted Near Infrared Probes for Fluorescence Guided Surgery”, *Bioconjugate Chemistry*, 2013, 24, 1075-1080.
65. V. Gaind, H.-R. Tsai, K. J. Webb, V. Chelvam, P. S. Low, “ Small animal optical diffusion tomography with targeted fluorescence”, *J. Opt. Soc. Am. A.* 2013, 30, 1146-1154.
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71. P. Kodgire, P.Mukkawar ,S. Ratnam , TE Martin , U. Storb, “ Changes in RNA polymerase II progression influence somatic hypermutation of Ig-related genes by AID” *Journal of Experimental Medicine*, 2013, **210** (7): 1481-1492.
72. P. Kodgire, P. Mukkawar , T. Martin , U. Storb, “ Transcriptional pausing facilitates, whereas termination obstructs AID access to Ig variable regions during somatic hypermutation” , Autumn Immunology Conference (AIC) 2012, scheduled at the Chicago Marriott Downtown from 16-19 November 2012.

## **Conference Papers:**

1. Distinguished role of iron pentacarbonyl toward the reaction of acetylenes and isocyanates under photochemical and thermal reaction conditions, Jha, Badrinath; Mathur, Pradeep; Joshi, Raj K.; Mobin, Shaikh M. Abstracts of Papers, 243rd ACS National Meeting & Exposition, San Diego, CA, United States, March 25-March 29, 2012
2. Reaction of 3-Ferrocenylpropynal with iron carbonyl and chalcogenised iron carbonyl clusters: Formation of new ligands;  $[\text{Fe}(\text{CO})_3\text{-}\eta^4\text{-(FcC}_2\text{CHO)}_2]$ ,  $[\text{Fe}(\text{CO})_2\{\eta^2:\eta^2\text{-(FcC}_2\text{CHO)}_2\text{Fe}(\text{CO})_3\text{-}\mu\text{-CO}\}]$  and 1,2,3-triselenole, Rai, Dharendra K.; Tauqeer, Mohd.; Shaikh, Mobin M.; Mathur, Pradeep Abstracts of Papers, 243<sup>rd</sup> ACS National Meeting & Exposition, San Diego, CA, United States, March 25-March 29, 2012
3. Enzyme Sensing and Enzyme-driven Dynamic Peptide Nanostructures, Dnyaneshwar B. Rasale Indrajit Maity, Apurba K. Das, presented in 1<sup>st</sup> National Conference on “Challenges and Prospective in Engineering, Management & Pharmacy”, B. M. College, Indore, 27-28 April, 2012.

## **School of Engineering**

### **Journals :**

1. Anuradha Purohit, Narendra S. Choudhari, and Aruna Tiwari, “Code Bloat Problem in Genetic Programming”, International Journal of Scientific and Research Publications (IJSRP), Vol. 3, Issue 4, April 2013, ISSN: 2250-3153, pp. 1-5.
2. Anuradha Purohit, Narendra S. Choudhari and Aruna Tiwari, “A New Mutation Operator in Genetic Programming”, ICTACT Journal on Soft Computing (IJSC), January 2013, Vol. 3, Issue:02, ISSN: 2229-6956 (Online), pp. 467-471.
3. Aruna Tiwari, Poorva Agrawal, “On Construction of Binary Higher Order Neural Networks and Realization of Boolean Functions”, International Journal of Computer Applications & Information Technology, Vol. I, Issue II, September 2012 (ISSN: 2278-7720) pp 51.
4. Aruna Tiwari, Veena Trivedi, “Estimating Similarity of XML Schemas using Path Similarity Measure”, International Journal of Computer Applications & Information Technology (IJCAIT-ISSN :2278-7720) ,Vol. 1, No.1, July 2012, pp 34-37
5. Rohit Verma, Sushmita Ruj, Abhishek Srivastava. Virtualization Security “ The Present State and Future Trends. IEEE Security and Privacy Magazine”, IEEE Computer Society, 2013 (in communication)
6. Anirban Sengupta, “System and Methodology for Development of System Architecture”, US patent granted by United States Patent and Trademark Office (USPTO), Application no. 12/974,925, 2013 (co-inventor: Reza Sedaghat).
7. Anirban Sengupta, “Rapid Self Correction Scheme based Multi Criterion Exploration of Performance-Area Tradeoff using Fuzzy Membership Search in High Level Synthesis for



- Data Intensive Applications”, Elsevier Journal on Swarm and Evolutionary Computation, Minor Revision, 2013.
8. Mohit Sharma, Surya Prakash, Phalguni Gupta, “An Efficient Partial Occluded Face Recognition System”, *Neurocomputing*, 116, pp. 231-241, Elsevier, 2013.
  9. J Umarani, Surya Prakash, Phalguni Gupta, “Use of Geometric Features of Principal Components for Indexing Biometric Databases”, *Mathematical and Computer Modelling*, 58(1-2), pp. 147-164, Elsevier, 2013.
  10. Surya Prakash and Phalguni Gupta, “A Rotation and Scale Invariant Technique for Ear Detection in 3D”, *Pattern Recognition Letters*, 33(14), pp. 1924-1931, Elsevier, 2012.
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  13. Somnath Dey and Debasis Samanta, “Iris Data Indexing Method Using Gabor Energy Features”, *IEEE Transactions on Information Forensics and Security* Vol-7, No-4, pp. 1192-1203, 2012.
  14. Anuradha Purohit, Narendra S. Chaudhari, and Aruna Tiwari, “Code Bloat Problem in Genetic Programming”, *International Journal of Scientific and Research Publications (IJSRP)*, Vol. 3, No. 4 (April, 2013) (ISSN: 2250-3153) pp. 1-5.
  15. Ramchandra Hablani, Narendra S. Chaudhari and Sanjay Tanwani, “Recognition of Facial Expressions using Local Binary Patterns of Important Facial Parts,” *International Journal of Image Processing (IJIP)* Volume 7, No. 2 (CSC Press, Computer Science Journals, Kuala Lumpur, Malaysia) 2013.
  16. Anuradha Purohit, Narendra S. Chaudhari and Aruna Tiwari, “A New Mutation Operator in Genetic Programming,” *ICTACT Journal on soft Computing*, [January 2013](#), Volume-3, Issue-2, pp. 467-471.
  17. Shruti Bhilare and Narendra S. Chaudhari, “Interference Reduction in Images from Multiple Structured Light Depth Cameras,” *Journal of IMS Group*, (IMS, Ghaziabad, U.P., India), Vol. 9, No. 1, (July-Dec 2012) pp. 01-05
  18. Rajkumar S. Bhosle, Archana R. Panhalkar, V.S. Phad, N.S. Chaudhari, “Enhanced Speech Recognition Using ADAG SVM Approach,” *International Journal of Emerging Trends & Technology in Computer Science (IJETTCS)* Vol. 1, Issue 4, (ISSN 2278-6856), (Nov-Dec. 2012) pp. 106-110.
  19. Ravindra Kumar Singh, Narendra S. Chaudhari, Kanak Saxena, "[Load Balancing in IP/MPLS Networks: A Survey](#)" *Communications and Network (CN)* (Scientific Research Publishing, SCIRP: <http://www.scirp.org>), Vol.04 No.02, (DOI: 10.4236/cn.2012.42020) pp. 151-156 (2012).



20. Rakesh Kr Sahu and Narendra S. Chaudhari, "Efficient Techniques to Detect the Various Attacks in Ad-Hoc Network," International Journal of Electronics and Computer Science Engineering, available at [www.ijecse.org](http://www.ijecse.org), sept. 2012, Vol 1, No. 1, pp 2362-2467.
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23. K. Sambhaji, Ritunesh Kumar, Kuldeep Baghel "Simplified Model for prediction of bubble growth in microchannels", Journal of Heat transfer.(Communicated).
24. Yogesh Pandya and Anand Parey, "Failure Path Based Modified Gear Mesh Stiffness for Spur Gear pair with Tooth Root Crack", Engineering Failure Analysis, 27 (2013), 286-296.
25. Yogesh Pandya and Anand Parey, "Simulation of Crack Propagation in Spur Gear Tooth for Different Gear Parameters and its Influence on Mesh Stiffness", Engineering Failure Analysis, 30 (2013), 124-137.
26. S. K. Sahu, P. Behera, " An improved lumped model for transient heat conduction in different geometries 2012", Computational Thermal Science, 4, 39-48
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28. N. D. Patil, P. K. Das, S. Bhattacharyya, S. K. Sahu, " An experimental assessment of cooling of a 54-rod bundle by in-bundle injection 2012", Nuclear Engineering and Design 250, 500-511
29. Manish Kumar Agrawal and S. K. Sahu, "Analysis of conduction-controlled rewetting of a hot surface by variation method 2012", Heat and Mass Transfer 49, 963-971.
30. Shandilya Pragya, P. K. Jain, N. K. Jain, "Study on wire electric discharge machining Based on response surface methodology and genetic algorithm", Advanced Material Research, Vol. 622-623, 1280-1284. (DOI:10.4028/www.scientific.net/AMR.622-623.1280)
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