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1. S Chabri, A Dhara, B Show, D Adak, A Sinha and N Mukherjee, “Mesoporous CuO–ZnO p–n heterojunction based nanocomposites with high specific surface area for enhanced photocatalysis and electrochemical sensing”, Catalysis Science & Technology, 2016, DOI: 10.1039/C5CY01573A Impact Factor: 5.426, Citation: 0


5. B Mondal, J Das, C Roychadhuri, N Mukherjee and H Saha, “Enhanced sensing properties of ZnO-SnO2 based composite type gas sensor”, Journal Name: The European Physical Journal Applied Physics, 73 (2015), Impact Factor: 0.77, Citation: 0.


(2014)


(2013)


Conference:

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(2014)

(2013)
Patent:

1. Fabrication of n-type microcrystalline silicon oxide films for use as back reflectors in silicon based thin film solar cells. [File No.: 1347/CHE/2013, Mar. 26, 2013]

Summary

Total International Journal: 28
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Total International Conferences: 36
Total Patents: 1

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Publications 2013-2015

2015


2. Sayan Mandal; Samit Biswas; Amit Kumar Das; Bhabatosh Chanda; Map image binarization and stitching using extraction of regions, Journal of Theoretical and Applied Computer Science, Vol 9(1):2840, 2015.


32. Sekhar Mandal, Paramita De, Partha Bhowmick and Bhabatosh Chanda; Topological Simplification of Electrical Circuits by Super-component Analysis, 13th International Conference on Document Analysis and Recognition (ICDAR), 2015.


35. Sekhar Mandal, Prerana Jana, Anubhab Majumdar, Ashish Kumar Layek and Amit Kumar Das; Automated segmentation and classification of chemical and other equations from document images, Eighth International Conference on Advances in Pattern Recognition 2015, pp 1-7.


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44. R. Banerjee and S. DasBit, Low-Overhead Image Compression in WMSN for Post Disaster Situation Analysis, IEEE ANTS, 2015.


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65. Abhishek Bandyopadhyay, Debdupto Chakraborty, Uma Bhattacharya and Monish Chatterjee, On Improving Static Routing and Wavelength Assignment in WDM All-Optical Mesh Networks, ICACNI , 2015.

2014


67. S Chattaraj and Abhik Mukherjee; Efficient in-flight transfer alignment using evolutionary strategy based particle filter algorithm; ICINCO, 2014.

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70. Monosij Maitra and Abhik Mukherjee; Convergence of the min-sum decoding scheme for LDPC codes from a dynamical systems perspective; EAIT, 2014.


77. Bibhash Sen, Manojit Dutta, Mrinal Goswami and Biplab K Sikdar:-Modular design of testable reversible ALU by QCA multiplexer with increase in programmability; Elsevier, vol 45, No 11, 2014.


83. Baisakhi Das, Mousimi Saha, Sukanta Das and Biplab K Sikdar; A CA Based Scheme Of Cache Zone Prediction for Data Migration In CMPs, 11th INDICON, 2014.


90. Sekhar Mandal, Mrinmoy Ghorai and Bhabatosh Chanda; A Two-Step Image Inpainting Algorithm Using Tensor SVD, *ACCV Workshops (2)*, 2014, pp 63-77.


109. S. De, S. Bhattacharyya and S. Chakraborty, “Application of Pixel Intensity Based Medical Image Segmentation Using NSGA II Based OptiMUSIG Activation Function,” The International Conference on Computational Intelligence and Communication Networks (ICCICN), 2014.


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120. Durjoy Majumder and Abhik Mukherjee, Multi-scale Modeling Approaches in Systems Biology Towards the Assessment of Cancer Treatment Dynamics: Adoption of Middle-out Rationalist Approach, Advances in cancer: research and treatment, 2013, 2326-702X.


129. Mousumi Saha and Biplab K Sikdar, A Self Testable Hardware For Memory; IEEE International Conference on Circuits and Systems (ICCAS); 2013.


132. Baisakhi Das, Nirmalya Sundar Maiti, Sukanta Das and Biplab K Sikdar, An Efficient Scheme For Data Block Migration In Tiled CMPs Cache System; INDICON, 2013.


163. Abhijit Sharma, Uma Bhattacharya, Load Balancing Scheme for Wireless Cellular Networks, 7th International Conference on Ubiquitous Information Management and Communication (ICUIMC), 2013.

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<th>Year</th>
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Chemistry

➢ List of Publications for the Year 2015


4) S. Paul, A. Manna and S. Goswami, A differentially selective molecular probe for detection of trivalent ions (Al$^{3+}$, Cr$^{3+}$ and Fe$^{3+}$) upon single excitation in mixed aqueous medium, Dalton Trans., 44, 2015, 11805-11810. **Impact Factor: 4.19; Citations: 08**


7) A. Manna and S. Goswami Ratiometric detection of hypochlorite applying the restriction to 2-way ESIPT: simple design for “naked-eye” tap water analysis, New J. Chem., 39, 2015, 4424-4429. **Impact Factor: 3.08; Citations: 04**


9) S. Goswami, S. Das and K. Aich Fluorescent chemodosimeter based on spirobenzopyran for organophosphorus nerve agent mimics (DCP), RSC Adv., 5, 2015, 28996-2900. **Impact Factor: 3.84; Citations: 07**


11) Mousumi Mitra, Chiranjit Kulsi, Krishanu Chatterjee, Kajari Kargupta, Saibal Ganguly, Dipali Banerjee and Shyamaprosad Goswami, Reduced graphene oxide-polyaniline composites—synthesis, characterization and optimization for thermoelectric applications RSC Adv., 5, 2015, 31039-31048. **Impact Factor: 3.84; Citations: 09**


13) S. Goswami, S. Maity, A. C. Maity, A. K. Das, B. Pakhira, K. Khanra, N. Bhattacharyya and S. Sarkar, ESIPT based Hg$^{2+}$ and fluoride chemosensor for sensitive and selective ‘turn on’ red signal and cell imaging RSC Adv., 5, 2015, 5735-5740. **Impact Factor: 3.84; Citations: 09**
14) S. Goswami, S. Paul and A. Manna, Fast and ratiometric “naked eye” detection of hydrazine for both solid and vapour phase sensing, New J. Chem., 39, 2015, 2300-2305. Impact Factor: 3.08; Citations: 06

15) B. N. Mongal, A. Pal, T.K. Mandal, J Datta, S. Naskar, “Synthesis, characterisation, electrochemical study and photovoltaic measurements of a new terpyridine and pyridine-quinoline based mixed chelate ruthenium dye”, Polyhedron, 102, 2015, 615 Impact Factor: 2.011; Citation: 01

16) A. Datta, A. Mondal, J. Datta, “Tuning of Platinum nano-particles by Au coverage in their binary alloy for direct ethanol fuel cell: Controlled synthesis, electrode kinetics and mechanistic interpretation”, J. Power Source, 283, 2015, 104. Impact Factor: 6.217; Citation: 01

17) A. B. Ghosh, N. Saha, A. Sarkar, D. N. Srivastava, P. Paul, B. Adhikary, " Solvent assisted and solvent free orientation of growth of nanoscaled lanthanide sulfides: tuning of morphology and manifestation of photocatalytic behavior " RSC Adv, 2015, 5, 102818-102827. Impact Factor-3.84, Citation: Nil


22) S. Jana, P. Mondal, S. Tripathi, A. Mondal, B. Chakraborty, “Electrochemical synthesis of FeS2 thin film: An effective material for peroxide sensing and terephthalic acid degradation”, J. Alloys and Compounds, 646, 2015, 893-899, Impact Factor-2.999, Citation: Nil


24) A. Ghosh, A. Mondal, “A simple electrochemical route to deposit Cu7S4 thin films and their photocatalytic properties”, Applied Surface Science, 328, 2015, 63–70, Impact Factor-2.71, Citation: 04


50) A. Sharma, S. Chattopadhyay, K. Adhikari, and D. Sinha, “Spectroscopic constants relating to ionization from the strongest bonding and inner valence molecular orbital 2σ_g of N₂ : An EIP-VUMRCC search”, Chem. Phys. Lett., 634, 2015, 88–94, Impact factor = 1.963. Google Scholar Citation: 2


53) P. Sarkar, A. Shit, S. Chattopadhyay, and S. Banik, “Profiling the overdamped dynamics of a nonadiabatic system”, Chemical Physics, 458, (2015), 86–91, Impact factor = 1.696. Google Scholar Citation: 1


56) S. Basu, P. Maji, J. Ganguly, "Biosynthesis, Characterization and Antimicrobial activity of Silver and Gold nanoparticles by Dolichos biflorus Linn seed extract" Journal of Experimental Nanoscience, 2015. Impact factor 0.84 Citations: nil


62) Suvendu Samanta and Papu Biswas, Metal free visible light driven oxidation of alcohols to carbonyl derivatives using 3,6-di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz) as catalyst. RSC Adv., 5, 2015, 84328–84333, Impact Factor = 3.84, Citation = 02.

63) Sudipto Das, SuvenduSamanta, Shounak Ray and Papu Biswas. 3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine capped Pd(0) nanoparticles: a catalyst for copper-free Sonogashira coupling of aryl halides in aqueous medium. RSC Adv., 5, 2015, 75263–75267, Impact Factor = 3.84, Citation = 0.


65) S. Samanta, A. K. Dutta, P. Biswas. “Supramolecular interactions in mononuclear iron(III) complex derived from a diamide ligand: spectroscopic and electrochemical properties”. Indian Journal of Chemistry 54A, 2015, 478-483, Impact Factor = 0.851, Citation = 0.


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70) S. Goswami, A. Manna, M. Mondal and D. Sarkar  Cascade reaction-based rapid and ratiometric detection of H₂S/S²⁻ in the presence of bio-thiols with live cell imaging: demasking of ESIPT approach, RSC Adv., 4, 2014, 62639-62643. Impact Factor: 3.84; Citations: 16


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75) S. Goswami, S. Paul and A. Manna, Rapid and ratiometric sensor for CAN (Ce⁴⁺) through metal assisted oxidation reaction-altered through bond energy transfer (TBET): development of low cost devices (TLC plate sticks) RSC Adv., 4, 2014, 43778-43784. Impact Factor: 3.84; Citations: 02


81) S. Goswami, A. Manna and S. Paul, Rapid ‘Naked eye’ response of DCP, a nerve agent simulant: from molecules to low cost devices for both liquid and vapour phase detection, *RSC Adv.*, **4**, 2014, 21984-21988. **Impact Factor: 3.84; Citations: 09**


84) S. Goswami, K. Aich, S. Das, S. B. Roy, B. Pakhira and S. Sarkar, A reaction based colorimetric as well as fluorescence ‘turn on’ probe for the rapid detection of hydrazine *RSC Adv.*, **4**, 2014, 14210-14214. **Impact Factor: 3.84; Citations: 19**


86) S. Dey, D. Sain, S. Goswami, Naphthyridine based fluorescent receptors for the recognition of uric acid, *RSC Adv.*, **4**, 2014, 428-433. **Impact Factor: 3.84; Citations: 07**


93) P. Hazra, A. Jana, M. Hazra, J. Datta, “Studies on the photo-electrochemical behaviour of Bi\(_2\)S\(_3\)NPs embedded in a PANINFs matrix”, *RSC Advance*, 4, 2014, 33662-33671 **Impact Factor: 3.84; Citation: 03**

94) A. Dutta, J. Datta*, Energy efficient role of Ni/NiO in PdNi nano catalyst used in alkaline DEFC, *J. Mater. Chem. A*, 2, 2014, 3237. **Impact Factor: 7.443; Citation: 22**


133) A. Shit, S. Chattopadhyay, and J. Ray Chaudhuri, “Taming the escape dynamics of nonadiabatic time-periodically driven quantum dissipative system within the frame of Wigner formalism”, Chem. Phys., 431, (2014), 26, Impact factor = 1.696. **Google Scholar Citation: 3**


140) Synthesis of 3,6-di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz) capped silver nanoparticles using 3,6-di(pyridin-2-yl)-1,4-dihydro-1,2,4,5-tetrazine as reducing agent: Application in naked eye sensing of Cu2+, Ni2+ and Ag+ ions in aqueous and paper platform. Suvendu Samanta, Sudipto Das, *Papu Biswas. Sensors and Actuators B*, 202, 2014, 23–30, **Impact Factor = 4.097**, **Citation = 6**.


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144) S. Goswami, S. Paul and A. Manna A differentially selective chemosensor for a ratiometric response to Zn$^{2+}$ and Al$^{3+}$ in aqueous media with applications for molecular switches, RSC Adv., 3, 2013, 25079-25085. Impact factor: 3.84, Citations: 29

145) S. Goswami, S. Paul and A. Manna, A highly reactive (<1 min) ratiometric chemodosimeter for selective “naked eye” and fluorogenic detection of hydrazine RSC Adv., 3, 2013, 18872-18877. Impact factor: 3.84, Citations: 18


161) S. Goswami, S. Paul and A. Manna. Selective “naked eye” detection of Al(III) and PPi in aqueous media on a rhodamine–isatin hybrid moiety *RSC Adv.*, 3, 2013, 10639-10643. **Impact factor: 3.84, Citations: 50**


A. Dutta, J. Datta, “Significant role of surface activation on Pd nano catalyst in promoting the electrode kinetics of ethanol oxidation: Temperature effect, product analysis & theoretical computations”, *Int. J. Hydrogen Energy*, 38, 2013, 7789-7800. **Impact Factor: 3.31; Citation: 10**

A. Jana, J. Datta, “Enhancement of photo-characteristics of Bi\(_2\)Se\(_3\) thin films by post heat treatment at optimal temperature range” *J. Electroanal. Chem.*, 689, 2013, 31-41. **Impact Factor: 2.73, Citation: 03**

A. Talapatra, J. Datta, N.R. Bandhyopadhyay, “Structure-properties relationship of TRIP-assisted steels by Non-destructive Testing Method”, *Chemical and Materials Engineering*, 1, 2013, 18-27. **Citation: 0**

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209) J. Ganguly, L. Y. Low, N. Kamal, E. Saile, L. Scott Forsberg, G. Gutierrez-Sanchez, Alex R. Hoffmaster, R. Liddington, Conrad P. Quinn, Russell W. Carlson, and Elmar L. Kannenberg, “The secondary cell wall polysaccharide of *Bacillus anthracis* provides the specific binding ligand for the C-terminal cell wall-binding domain of two phage endolysins, PLYLand PLYG”, *Glycobiology*, 23, 2013, 820. **Impact Factor**: 3.15, **Citations**: 10

210) C. Wanty, A. Anandan, S. Piek, J. Walshe, J. Ganguly, R. W. Carlson, K. A. Stubbs, C. M. Kahler, A. Vrielink “The Structure of the Neisserial Lipooligosaccharide Phosphoethanolamine Transferase A (lpta)

211) M. Bhatnagar, L. Parwani, V. Sharma, J. Ganguly and A. Bhatnagar;“Hemostatic, antibacterial biopolymers from Acacia arabica (Lam.)Willd and Moringaoleifera (Lam.) As potential wound dressing materials.” Indian Journal of Experimental Biology, 51, 2013, Impact factor 0.8 Citations 0

212) P. Maji, A. Sinha, S. Basu and J. Ganguly, “Electrochemical Study of Aqueous Extract of Star-fruit‖, International Journal of Applied Sciences & Engineering, 2013, 1, 71-77. Impact factor 0; Citations 0


Book Chapter:


CIVIL ENGINEERING

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2015


2. Bhattacharjya Soumya, Chakraborti Subhasish and Das Subhasish, “Robust Design Optimization of RC Folded Plate and Shell Structure under Uncertainty”, Structural Engineering and Mechanics, Vol. 56, No. 5, 2015, pp 707-726, Impact factor: 0.927, Citation: Nil; (SCI)


11. Thakur Sandipan Nath and Ray Chaitali, "An accurate C0 finite element model of moderately thick and deep laminated doubly curved shell considering cross sectional warping". Thin walled Structures (Elsevier), Vol. 94, 2015, pp. 384-393, Impact factor: 1.749, Citation: 2. (SCI)

12. Biswas Dhiraj and Ray Chaitali "Comparative perspective of various shear deformation theories with experimental verification for modal analysis of hybrid laminates". Journal of vibration and control, 2015, Impact factor: 4.36, Citation:Nil, (SCI)

13. Thakur Sandipan Nath and Ray Chaitali, "The effect of thickness coordinate to radius ratio on free vibration of moderately thick and deep doubly curved cross-ply laminated shell". Archive of Applied Mechanics (Springer) (in press), 2015. Impact factor: 1.11, Citation: Nil. (SCI)


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44. Roy Bijan K, Chakraborty Subrata and Misra Sudib Kumar, Robust optimum design of base isolation system in seismic vibration control of structures under uncertain bounded system parameters, J. of Vibration and Control, 20(5), 2014,786 – 800., Impact Factor :4.355; Citations:3(SICI)


63. Mandal Bibekananda and Ray Chaitali, "Bending of FRP bridge deck under the combined effect of thermal and vehicle load", Advances in Structural Engineering, 2493-2503, 2014.(Scopus)


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<td>“Adsorption of 2,4-D Herbicide from Water Environment on Modified Silica Gel Waste.”</td>
<td>Water Environment Research</td>
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<td>“Bimodal vibration control of seismically excited structures by the liquid column vibration absorber.”</td>
<td>Journal of Vibration and Control</td>
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