

Papu Biswas

List of Publications by Year in descending order

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51
papers

1,595
citations

304743

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302126

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all docs

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docs citations

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times ranked

2328
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Synthesis of FeS and FeSe Nanoparticles from a Single Source Precursor: A Study of Their Photocatalytic Activity, Peroxidase-Like Behavior, and Electrochemical Sensing of H ₂ O ₂ . ACS Applied Materials & Interfaces, 2012, 4, 1919-1927. | 8.0 | 259 |
| 2 | CuS nanoparticles as a mimic peroxidase for colorimetric estimation of human blood glucose level. Talanta, 2013, 107, 361-367. | 5.5 | 158 |
| 3 | Photocatalysis by 3,6-Disubstituted- <i>s</i> -Tetrazine: Visible-Light Driven Metal-Free Green Synthesis of 2-Substituted Benzimidazole and Benzothiazole. Journal of Organic Chemistry, 2013, 78, 11184-11193. | 3.2 | 110 |
| 4 | Peroxidase-like activity and amperometric sensing of hydrogen peroxide by Fe ₂ O ₃ and Prussian Blue-modified Fe ₂ O ₃ nanoparticles. Journal of Molecular Catalysis A, 2012, 360, 71-77. | 4.8 | 73 |
| 5 | Iron selenide thin film: Peroxidase-like behavior, glucose detection and amperometric sensing of hydrogen peroxide. Sensors and Actuators B: Chemical, 2012, 173, 724-731. | 7.8 | 68 |
| 6 | Synthesis and characterization of FeS nanoparticles obtained from a dithiocarboxylate precursor complex and their photocatalytic, electrocatalytic and biomimic peroxidase behavior. Applied Catalysis A: General, 2012, 419-420, 170-177. | 4.3 | 62 |
| 7 | Non-enzymatic amperometric sensing of hydrogen peroxide at a CuS modified electrode for the determination of urine H ₂ O ₂ . Electrochimica Acta, 2014, 144, 282-287. | 5.2 | 43 |
| 8 | Visible-light-driven synthesis of 2-substituted benzothiazoles using CdS nanosphere as heterogenous recyclable catalyst. Tetrahedron Letters, 2013, 54, 1090-1096. | 1.4 | 42 |
| 9 | AgNPs Immobilized over Functionalized 2D Hexagonal SBA-15 for Catalytic C-H Oxidation of Hydrocarbons with Molecular Oxygen under Solvent-Free Conditions. ACS Sustainable Chemistry and Engineering, 2020, 8, 5856-5867. | 6.7 | 40 |
| 10 | Fixation of carbon dioxide by macrocyclic lanthanide(III) complexes under neutral conditions producing self-assembled trimeric carbonato-bridged compounds with $\mu_3\text{-}\mu_2\text{-}\mu_2$ bonding. Dalton Transactions, 2012, 41, 3414. | 3.3 | 37 |
| 11 | 3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz) mediated metal-free mild oxidation of thiols to disulfides in aqueous medium. RSC Advances, 2016, 6, 39356-39363. | 3.6 | 37 |
| 12 | Syntheses, structures and electrochemistry of manganese(III) complexes derived from N,N'-o-phenylenebis(3-ethoxysalicylaldehyde): Efficient catalyst for styrene epoxidation. Polyhedron, 2009, 28, 2473-2479. | 2.2 | 35 |
| 13 | Nanocrystalline FeS thin film used as an anode in photo-electrochemical solar cell and as hydrogen peroxide sensor. Sensors and Actuators B: Chemical, 2012, 166-167, 726-732. | 7.8 | 33 |
| 14 | New peroxidase-substrate 3,5-di-tert-butylcatechol for colorimetric determination of blood glucose in presence of Prussian Blue-modified iron oxide nanoparticles. Sensors and Actuators B: Chemical, 2013, 177, 676-683. | 7.8 | 33 |
| 15 | A gold nanoparticle-intercalated mesoporous silica-based nanozyme for the selective colorimetric detection of dopamine. Nanoscale Advances, 2020, 2, 734-745. | 4.6 | 33 |
| 16 | Synthesis, Reactivities, and Magnetostructural Properties of Fe ^{II} , Fe ^{III} -O ²⁻ -Fe ^{III} , and Zn ^{II} Fe ^{III} -O ²⁻ -Fe ^{III} Zn ^{II} Complexes of a Tetraimidodiphenolate Macrocyclic. Inorganic Chemistry, 2006, 45, 4830-4844. | 4.0 | 28 |
| 17 | Structural, spectroscopic and redox properties of transition metal complexes of dipyrido[3,2-f:2'-h]-quinoxaline (dpq). Polyhedron, 2007, 26, 3750-3762. | 2.2 | 28 |
| 18 | Mesoporous silica supported samarium as recyclable heterogeneous catalyst for synthesis of 5-substituted tetrazole and 2-substituted benzothiazole. Journal of Porous Materials, 2019, 26, 145-155. | 2.6 | 27 |

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|----|--|-----|-----------|
| 19 | Structure, Stereochemistry, and Physico-Chemical Properties of Trinuclear and Dinuclear Metal(II) Complexes of a Phenol-Based Tetrapodal Schiff Base Ligand. <i>Inorganic Chemistry</i> , 2010, 49, 7382-7400. | 4.0 | 26 |
| 20 | Morphological tuning of Eu ²⁺ O ²⁺ S nanoparticles, manifestation of peroxidase-like activity and glucose assay use. <i>New Journal of Chemistry</i> , 2016, 40, 1595-1604. | 2.8 | 25 |
| 21 | A mononuclear copper(II) complex immobilized in mesoporous silica: an efficient heterogeneous catalyst for the aerobic oxidation of benzylic alcohols. <i>RSC Advances</i> , 2013, 3, 19455. | 3.6 | 23 |
| 22 | Improved photocurrent response, photostability and photocatalytic hydrogen generation ability of CdS nanoparticles in presence of mesoporous carbon. <i>Materials Research Bulletin</i> , 2021, 134, 111085. | 5.2 | 23 |
| 23 | Visible light driven amide synthesis in water at room temperature from Thioacid and amine using CdS nanoparticles as heterogeneous Photocatalyst. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4199. | 3.5 | 22 |
| 24 | Halogen Exchange and Scrambling between C-X and M-X Bonds in Copper, Nickel, and Cobalt Complexes of 6,6'-bis(bromo/ chloromethyl)-2,2'-bipyridine. <i>Structural, Electrochemical, and Photochemical Studies. Inorganic Chemistry</i> , 2008, 47, 281-296. | 4.0 | 21 |
| 25 | Structural, Spectroscopic, and Proton-Coupled Electron-Transfer Behavior of Pyrazolyl- β ,5-bis(benzimidazole)-Bridged Homo- and Heterochiral Ru ^{II} Ru ^{II} , Os ^{II} Os ^{II} , and Os ^{II} Ru ^{II} 2,2'-Bipyridine Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 570-588. | 2.0 | 21 |
| 26 | 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. <i>RSC Advances</i> , 2015, 5, 84328-84333. | 3.6 | 21 |
| 27 | 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 Cu ²⁺ , Ni ²⁺ and Ag ⁺ ions in aqueous solution and paper platform. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 23-30. | 7.8 | 19 |
| 28 | Palladium oxide nanoparticles intercalated mesoporous silica for solvent free acceptorless dehydrogenation reactions of alcohols. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 186-197. | 4.4 | 19 |
| 29 | Direct synthesis of silver nanoparticles modified spherical mesoporous silica as efficient antibacterial materials. <i>Microporous and Mesoporous Materials</i> , 2021, 313, 110824. | 4.4 | 19 |
| 30 | Formation of oxo-bridged tetrairon(III) complexes mediated by oxygen activation. Structure, spectroscopy, magnetism and electrochemistry. <i>New Journal of Chemistry</i> , 2007, 31, 93-101. | 2.8 | 17 |
| 31 | Influence of counter anions on structural, spectroscopic and electrochemical behaviours of copper(II) complexes of dipyrido[3,2-f: 2'-h]-quinoxaline (dpq). <i>Polyhedron</i> , 2008, 27, 2105-2112. | 2.2 | 17 |
| 32 | Mesoporous silica supported ytterbium as catalyst for synthesis of 1,2-disubstituted benzimidazoles and 2-substituted benzimidazoles. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4507. | 3.5 | 16 |
| 33 | Nickel sulphide decorated nitrogen rich ordered mesoporous carbon (NOMC) as an efficient catalyst for the electrocatalytic oxidation of urea in alkaline medium. <i>Electrochimica Acta</i> , 2022, 408, 139920. | 5.2 | 14 |
| 34 | One Step Synthesis of a Gold/Ordered Mesoporous Carbon Composite Using a Hard Template Method for Electrocatalytic Oxidation of Methanol and Colorimetric Determination of Glutathione. <i>ACS Omega</i> , 2019, 4, 16360-16371. | 3.5 | 13 |
| 35 | Methoxy-bridged diiron(III) complex of m-xylylenebis(acetylacetonate) showing remarkable thermal stability for encapsulated dichloromethane. <i>New Journal of Chemistry</i> , 2009, 33, 847. | 2.8 | 12 |
| 36 | 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. <i>RSC Advances</i> , 2015, 5, 75263-75267. | 3.6 | 12 |

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| 37 | 3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz)-capped silver nanoparticles (TzAgNPs) inhibit biofilm formation of <i>Pseudomonas aeruginosa</i> : a potential approach toward breaking the wall of biofilm through reactive oxygen species (ROS) generation. <i>Folia Microbiologica</i> , 2018, 63, 763-772. | 2.3 | 12 |
| 38 | Macrocyclic lanthanide(III) complexes of iminophenol Schiff bases and carboxylate anions: Syntheses, structures and luminescence properties. <i>Polyhedron</i> , 2013, 52, 976-985. | 2.2 | 11 |
| 39 | Palladium Catalyzed Regioselective Synthesis of Substituted Biaryl Amides through Decarbonylative Arylation of Phthalimides. <i>Journal of Organic Chemistry</i> , 2019, 84, 3968-3976. | 3.2 | 11 |
| 40 | Structural, spectroscopic, and magnetic properties of a diphenolate-bridged Fe(III) complex showing excellent phosphodiester cleavage activity. <i>Polyhedron</i> , 2012, 31, 110-117. | 2.2 | 10 |
| 41 | Multiple metal coordinating behaviour of the tetrapodal ligand 1,1,1,1-tetrakis[(salicylaldimino)methyl]methane. <i>Inorganic Chemistry Communication</i> , 2010, 13, 1074-1080. | 3.9 | 8 |
| 42 | 3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz) catalysed metal-free amide bond formation from thioacids and amines at room temperature. <i>Tetrahedron Letters</i> , 2020, 61, 152272. | 1.4 | 8 |
| 43 | Copper(0) nanoparticles immobilized on SBA-15: A versatile recyclable heterogeneous catalyst for solvent and ligand free C-S coupling reaction from diverse substrates. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111198. | 4.4 | 7 |
| 44 | An abiotic receptor and its Cu(II) complex as selective "turn-off" chemosensor for bisulfate ion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 147, 262-269. | 3.9 | 6 |
| 45 | Highly chemoselective hydrogenation of nitroarenes catalyzed by 3,6-di(pyridin-2-yl)-1,2,4,5-s-tetrazine capped silver nanoparticles in aqueous medium at room temperature. <i>Catalysis Communications</i> , 2019, 119, 62-66. | 3.3 | 6 |
| 46 | Structural, spectroscopic, and electrochemical properties of two mononuclear iron(III) complexes derived from a tetraiminodiphenolate ligand. <i>Journal of Molecular Structure</i> , 2011, 996, 31-37. | 3.6 | 5 |
| 47 | Mononuclear aluminum complex derived from 1,1,1,1-tetrakis[(2-salicylaldiminomethyl)]methane acting as a zinc sensor: Crystal structure, emission and lifetime studies. <i>Polyhedron</i> , 2012, 40, 72-80. | 2.2 | 5 |
| 48 | Iron(III) complexes of 2-(1H-benzo[d]imidazol-2-yl)phenol and acetate or nitrate as catalysts for epoxidation of olefins with hydrogen peroxide. <i>Journal of Molecular Structure</i> , 2016, 1115, 207-213. | 3.6 | 5 |
| 49 | Non-Aggregation-Induced Colorimetric Detection of Ag ⁺ by Tetrazine-Capped Gold Nanoparticles Based on the Formation of Au-Ag Core-Shell Nanoparticles. <i>ChemistrySelect</i> , 2019, 4, 12409-12417. | 1.5 | 5 |
| 50 | Improved performance of cobalt hydroxychloride nanoparticles on poly (3-bromo thiophene) template for electrochemical oxygen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2022, 916, 116365. | 3.8 | 4 |
| 51 | Iron(III) and manganese(III) complexes of a pseudocalixarene tetraiminotetraphenol macrocyclic ligand: Structure, magnetism and electrochemistry. <i>Polyhedron</i> , 2014, 75, 118-126. | 2.2 | 2 |