

Badal Kumar Mandal

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|-------------------|-------------------------|----------------|-----------------|
| 66 papers | 6,696 citations | 35 h-index | 69 g-index |
| 69 ext. papers | 7,352 ext. citations | 5.1 avg, IF | 6.21 L-index |

| # | Paper | IF | Citations |
|----|--|---------------|-----------|
| 66 | Green Biosynthesis of Tin Oxide Nanomaterials Mediated by Agro-Waste Cotton Boll Peel Extracts for the Remediation of Environmental Pollutant Dyes.. <i>ACS Omega</i> , 2022 , 7, 15423-15438 | 3.9 | 1 |
| 65 | Biogenic Ceria Nanoparticles (CeO NPs) for Effective Photocatalytic and Cytotoxic Activity. <i>Bioengineering</i> , 2020 , 7, | 5.3 | 17 |
| 64 | Waste to wealth: a solution to textile dyes related pollution. <i>Materials Research Express</i> , 2020 , 7, 024001 | 1.7 | 1 |
| 63 | Remediation of azo-dyes based toxicity by agro-waste cotton boll peels mediated palladium nanoparticles. <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 267-281 | 4.3 | 30 |
| 62 | Silver nanoparticles: Potential as insecticidal and microbial biopesticides | 2019, 281-302 | 5 |
| 61 | Green synthesis of nano-titania (TiO ₂ NPs) utilizing aqueous Eucalyptus globulus leaf extract: applications in the synthesis of 4H-pyran derivatives. <i>Research on Chemical Intermediates</i> , 2019 , 47, 3919 | 2.8 | 5 |
| 60 | Synthesis, characterization and photocatalytic activity of Zn ²⁺ , Mn ²⁺ and Co ²⁺ doped SnO ₂ nanoparticles. <i>Biointerface Research in Applied Chemistry</i> , 2019 , 9, 4199-4204 | 2.8 | 11 |
| 59 | Determination of synthetic and natural colorants in selected green colored foodstuffs through reverse phase-high performance liquid chromatography. <i>Food Chemistry</i> , 2019 , 278, 381-387 | 8.5 | 26 |
| 58 | Synthesis of different metallochlorophyllins and quantification in food samples by reversed phase - high performance liquid chromatography. <i>Natural Product Research</i> , 2019 , 33, 3120-3126 | 2.3 | 2 |
| 57 | Mineralization of toxic industrial dyes by gallic acid mediated synthesized photocatalyst SnO ₂ nanoparticles. <i>Environmental Technology and Innovation</i> , 2019 , 13, 197-210 | 7 | 10 |
| 56 | Synthesis of gold nanoparticles by cotton peels aqueous extract and their catalytic efficiency for the degradation of dyes and antioxidant activity. <i>IET Nanobiotechnology</i> , 2018 , 12, 156-165 | 2 | 3 |
| 55 | Bioinspired gold nanoparticles decorated reduced graphene oxide nanocomposite using Syzygium cumini seed extract: Evaluation of its biological applications. <i>Materials Science and Engineering C</i> , 2018 , 93, 191-205 | 8.3 | 38 |
| 54 | Photocatalytic degradation of methylene blue dye by nonconventional synthesized SnO ₂ nanoparticles. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018 , 10, 339-350 | 3.3 | 37 |
| 53 | Biofabrication of size controllable silver nanoparticles - A green approach. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 167, 236-241 | 6.7 | 85 |
| 52 | Facile green synthesis of zinc oxide nanoparticles by Eucalyptus globulus and their photocatalytic and antioxidant activity. <i>Advanced Powder Technology</i> , 2017 , 28, 785-797 | 4.6 | 126 |
| 51 | High reduction of 4-nitrophenol using reduced graphene oxide/Ag synthesized with tyrosine. <i>Environmental Chemistry Letters</i> , 2017 , 15, 467-474 | 13.3 | 10 |
| 50 | Tyrosine assisted size controlled synthesis of silver nanoparticles and their catalytic, in-vitro cytotoxicity evaluation. <i>Environmental Toxicology and Pharmacology</i> , 2017 , 51, 23-29 | 5.8 | 66 |

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| 49 | Environment friendly approach for size controllable synthesis of biocompatible Silver nanoparticles using diastase. <i>Environmental Toxicology and Pharmacology</i> , 2017 , 49, 131-136 | 5.8 | 65 |
| 48 | Nano-zirconia - Evaluation of its antioxidant and anticancer activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 170, 125-133 | 6.7 | 68 |
| 47 | Diastase induced green synthesis of bilayered reduced graphene oxide and its decoration with gold nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 166, 252-258 | 6.7 | 67 |
| 46 | Cytotoxicity study of Piper nigrum seed mediated synthesized SnO nanoparticles towards colorectal (HCT116) and lung cancer (A549) cell lines. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 166, 158-168 | 6.7 | 95 |
| 45 | Biosynthesis of Copper Oxide nanoparticles from Drypetes sepiaria Leaf extract and their catalytic activity to dye degradation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 263, 022012 | 0.4 | 22 |
| 44 | Tyrosine mediated synthesis of SnO ₂ nanoparticles and their photocatalytic activity towards Violet 4 BSN dye. <i>Journal of Molecular Liquids</i> , 2016 , 221, 415-421 | 6 | 24 |
| 43 | Biofabricated silver nanoparticles as green catalyst in the degradation of different textile dyes. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 56-64 | 6.8 | 59 |
| 42 | Scopes of green synthesized metal and metal oxide nanomaterials in antimicrobial therapy 2016 , 313-341 | | 2 |
| 41 | Bioinspired reduced graphene oxide nanosheets using Terminalia chebula seeds extract. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 145, 117-124 | 4.4 | 73 |
| 40 | Gold nanoparticles Synthesis by Sterculia acuminata extract and its catalytic efficiency in alleviating different organic dyes. <i>Journal of Molecular Liquids</i> , 2015 , 211, 868-875 | 6 | 74 |
| 39 | Activity study of biogenic spherical silver nanoparticles towards microbes and oxidants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 639-45 | 4.4 | 35 |
| 38 | Montmorillonite-KSF-catalyzed synthesis of 4-heteroarylidene-N-arylhomophthalimides by Knoevenagel condensation. <i>Research on Chemical Intermediates</i> , 2015 , 41, 5509-5519 | 2.8 | 3 |
| 37 | Diastase assisted green synthesis of size-controllable gold nanoparticles. <i>RSC Advances</i> , 2015 , 5, 26727-26733 | 3.7 | 99 |
| 36 | Changing Concept of Arsenic Toxicity with Development of Speciation Techniques 2015 , 179-201 | | 1 |
| 35 | Casein mediated green synthesis and decoration of reduced graphene oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 126, 227-31 | 4.4 | 48 |
| 34 | Antimicrobial and antioxidant activities of Mimosa elengi seed extract mediated isotropic silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 130, 13-8 | 4.4 | 58 |
| 33 | Water mediated catalyst-free efficient domino synthesis of 9-(quinolin-2(1H)-one)-xanthene-1,8(5H,9H)-diones using parallel synthesizer. <i>Tetrahedron Letters</i> , 2014 , 55, 3717-3720 | 2 | 18 |
| 32 | Green Chemical Approach: Low-Melting Mixture as a Green Solvent for Efficient Michael Addition of Homophthalimides with Chalcones. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10814-10819 | 3.0 | 21 |

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| 31 | Stability-Indicating HPLC Method for the Simultaneous Determination of Valsartan and Ezetimibe in Pharmaceuticals. <i>Tropical Journal of Pharmaceutical Research</i> , 2014 , 13, 809 | 0.8 | 5 |
| 30 | Gold nanoparticles by Terminalia bellirica aqueous extract by rapid green method. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 825-830 | 1.9 | 16 |
| 29 | Green synthesis of size controllable gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 539-45 | 4.4 | 40 |
| 28 | Highly fluorescent and biocompatible iridium nanoclusters for cellular imaging. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1993-2000 | 4.5 | 9 |
| 27 | Green synthesis of nano platinum using naturally occurring polyphenols. <i>RSC Advances</i> , 2013 , 3, 4033 | 3.7 | 63 |
| 26 | Biobased green method to synthesise palladium and iron nanoparticles using Terminalia chebula aqueous extract. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 102, 128-33 | 4.4 | 225 |
| 25 | Synthesis and characterisation of flower shaped zinc oxide nanostructures and its antimicrobial activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 104, 171-4 | 4.4 | 66 |
| 24 | Terminalia chebula mediated green and rapid synthesis of gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 86, 490-4 | 4.4 | 119 |
| 23 | Green synthesis of silver nanoparticles using Terminalia chebula extract at room temperature and their antimicrobial studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 91, 228-33 | 4.4 | 77 |
| 22 | Quinoline-3-carboxylates as potential antibacterial agents. <i>Research on Chemical Intermediates</i> , 2012 , 38, 1819-1826 | 2.8 | 14 |
| 21 | Flower-shaped ZnO nanoparticles as an efficient, heterogeneous and reusable catalyst in the synthesis of N-arylhomophthalimides and benzannelated isoquinolinones. <i>Research on Chemical Intermediates</i> , 2012 , 38, 1881-1892 | 2.8 | 8 |
| 20 | Magnetic memory effect in chelated zero valent iron nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3839-3841 | 2.8 | 20 |
| 19 | Appraisal of conjugated linoleic acid production by probiotic potential of <i>Pediococcus</i> spp. GS4. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 168, 1265-76 | 3.2 | 20 |
| 18 | Zinc oxide nanoparticles catalyzed condensation reaction of isocoumarins and 1,7-heptdiamine in the formation of bis-isoquinolinones. <i>Scientific World Journal</i> , 2012 , 2012, 619080 | 2.2 | 5 |
| 17 | Comparative pharmacokinetics study of two different clindamycin capsule formulations: a randomized, two-period, two-sequence, two-way crossover clinical trial in healthy volunteers. <i>Arzneimittelforschung</i> , 2011 , 61, 538-43 | | 4 |
| 16 | Speciation of chromium in soil and sludge in the surrounding tannery region, ranipet, Tamil Nadu. <i>ISRN Toxicology</i> , 2011 , 2011, 697980 | | 23 |
| 15 | Fe nano particles mediated C-N bond-forming reaction: Regioselective synthesis of 3-[(2-chloroquinolin-3-yl)methyl]pyrimidin-4(3H)ones. <i>Tetrahedron Letters</i> , 2010 , 51, 2309-2311 | 2 | 60 |
| 14 | A SEC-HPLC-ICP MS hyphenated technique for identification of sulfur-containing arsenic metabolites in biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 874, 64-76 | 3.2 | 27 |

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| 13 | Speciation of arsenic in biological samples. <i>Toxicology and Applied Pharmacology</i> , 2004 , 198, 307-18 | 4.6 | 133 |
| 12 | Dimethylthioarsenicals as arsenic metabolites and their chemical preparations. <i>Chemical Research in Toxicology</i> , 2004 , 17, 914-21 | 4 | 93 |
| 11 | Speciation of arsenic in human nail and hair from arsenic-affected area by HPLC-inductively coupled argon plasma mass spectrometry. <i>Toxicology and Applied Pharmacology</i> , 2003 , 189, 73-83 | 4.6 | 134 |
| 10 | Arsenic groundwater contamination and sufferings of people in North 24-Parganas, one of the nine arsenic affected districts of West Bengal, India. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003 , 38, 25-59 | 2.3 | 90 |
| 9 | Speciation of arsenic in body fluids. <i>Talanta</i> , 2002 , 58, 111-9 | 6.2 | 74 |
| 8 | Arsenic round the world: a review. <i>Talanta</i> , 2002 , 58, 201-235 | 6.2 | 2489 |
| 7 | Arsenic round the world: a review. <i>Talanta</i> , 2002 , 58, 201-35 | 6.2 | 325 |
| 6 | Identification of dimethylarsinous and monomethylarsonous acids in human urine of the arsenic-affected areas in West Bengal, India. <i>Chemical Research in Toxicology</i> , 2001 , 14, 371-8 | 4 | 258 |
| 5 | High performance liquid chromatography inductively coupled plasma mass spectrometry for speciation of arsenic compounds in urine. <i>Microchemical Journal</i> , 2000 , 65, 113-127 | 4.8 | 44 |
| 4 | Arsenic poisoning in the Ganges delta. <i>Nature</i> , 1999 , 401, 545-6; discussion 546-7 | 50.4 | 383 |
| 3 | Flow Injection Hydride Generation Atomic Absorption Spectrometry for Determination of Arsenic in Water and Biological Samples from Arsenic-Affected Districts of West Bengal, India, and Bangladesh. <i>Microchemical Journal</i> , 1999 , 62, 174-191 | 4.8 | 129 |
| 2 | Impact of safe water for drinking and cooking on five arsenic-affected families for 2 years in West Bengal, India. <i>Science of the Total Environment</i> , 1998 , 218, 185-201 | 10.2 | 128 |
| 1 | Arsenic in groundwater in six districts of West Bengal, India. <i>Environmental Geochemistry and Health</i> , 1996 , 18, 5-15 | 4.7 | 310 |