Badal Kumar Mandal

List of Publications by Citations

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	Arsenic round the world: a review. *Talanta*, **2002**, 58, 201-235	6.2	2489
65	Arsenic poisoning in the Ganges delta. *Nature*, **1999**, 401, 545-6; discussion 546-7	50.4	383
64	Arsenic round the world: a review. *Talanta*, **2002**, 58, 201-35	6.2	325
63	Arsenic in groundwater in six districts of West Bengal, India. *Environmental Geochemistry and Health* , **1996**, 18, 5-15	4.7	310
62	Identification of dimethylarsinous and monomethylarsonous acids in human urine of the arsenic-affected areas in West Bengal, India. *Chemical Research in Toxicology*, **2001**, 14, 371-8	4	258
61	Biobased green method to synthesise palladium and iron nanoparticles using Terminalia chebula aqueous extract. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 102, 128-33	4.4	225
60	Speciation of arsenic in human nail and hair from arsenic-affected area by HPLC-inductively coupled argon plasma mass spectrometry. *Toxicology and Applied Pharmacology*, **2003**, 189, 73-83	4.6	134
59	Speciation of arsenic in biological samples. *Toxicology and Applied Pharmacology*, **2004**, 198, 307-18	4.6	133
58	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. *Microchemical Journal*, **1999**, 62, 174-191	4.8	129
57	Impact of safe water for drinking and cooking on five arsenic-affected families for 2 years in West Bengal, India. *Science of the Total Environment*, **1998**, 218, 185-201	10.2	128
56	Facile green synthesis of zinc oxide nanoparticles by Eucalyptus globulus and their photocatalytic and antioxidant activity. *Advanced Powder Technology*, **2017**, 28, 785-797	4.6	126
55	Terminalia chebula mediated green and rapid synthesis of gold nanoparticles. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 86, 490-4	4.4	119
54	Diastase assisted green synthesis of size-controllable gold nanoparticles. *RSC Advances*, **2015**, 5, 26727-26733	3.7	99
53	Cytotoxicity study of Piper nigrum seed mediated synthesized SnO nanoparticles towards colorectal (HCT116) and lung cancer (A549) cell lines. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 166, 158-168	6.7	95
52	Dimethylthioarsenicals as arsenic metabolites and their chemical preparations. *Chemical Research in Toxicology*, **2004**, 17, 914-21	4	93
51	Arsenic groundwater contamination and sufferings of people in North 24-Parganas, one of the nine arsenic affected districts of West Bengal, India. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2003**, 38, 25-59	2.3	90
50	Biofabrication of size controllable silver nanoparticles - A green approach. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 167, 236-241	6.7	85

49	Green synthesis of silver nanoparticles using Terminalia chebula extract at room temperature and their antimicrobial studies. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 91, 228-33	4.4	77
48	Gold nanoparticles Synthesis by Sterculia acuminata extract and its catalytic efficiency in alleviating different organic dyes. *Journal of Molecular Liquids*, **2015**, 211, 868-875	6	74
47	Speciation of arsenic in body fluids. *Talanta*, **2002**, 58, 111-9	6.2	74
46	Bioinspired reduced graphene oxide nanosheets using Terminalia chebula seeds extract. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 145, 117-124	4.4	73
45	Nano-zirconia - Evaluation of its antioxidant and anticancer activity. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 170, 125-133	6.7	68
44	Diastase induced green synthesis of bilayered reduced graphene oxide and its decoration with gold nanoparticles. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 166, 252-258	6.7	67
43	Tyrosine assisted size controlled synthesis of silver nanoparticles and their catalytic, in-vitro cytotoxicity evaluation. *Environmental Toxicology and Pharmacology*, **2017**, 51, 23-29	5.8	66
42	Synthesis and characterisation of flower shaped zinc oxide nanostructures and its antimicrobial activity. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 104, 171-4	4.4	66
41	Environment friendly approach for size controllable synthesis of biocompatible Silver nanoparticles using diastase. *Environmental Toxicology and Pharmacology*, **2017**, 49, 131-136	5.8	65
40	Green synthesis of nano platinum using naturally occurring polyphenols. *RSC Advances*, **2013**, 3, 4033	3.7	63
39	Fe nano particles mediated CN bond-forming reaction: Regioselective synthesis of 3-[(2-chloroquinolin-3-yl)methyl]pyrimidin-4(3H)ones. *Tetrahedron Letters*, **2010**, 51, 2309-2311	2	60
38	Biofabricated silver nanoparticles as green catalyst in the degradation of different textile dyes. *Journal of Environmental Chemical Engineering*, **2016**, 4, 56-64	6.8	59
37	Antimicrobial and antioxidant activities of Mimusops elengi seed extract mediated isotropic silver nanoparticles. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 130, 13-8	4.4	58
36	Casein mediated green synthesis and decoration of reduced graphene oxide. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 126, 227-31	4.4	48
35	High performance liquid chromatography inductively coupled plasma mass spectrometry for speciation of arsenic compounds in urine. *Microchemical Journal*, **2000**, 65, 113-127	4.8	44
34	Green synthesis of size controllable gold nanoparticles. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 116, 539-45	4.4	40
33	Bioinspired gold nanoparticles decorated reduced graphene oxide nanocomposite using Syzygium cumini seed extract: Evaluation of its biological applications. *Materials Science and Engineering C*, **2018**, 93, 191-205	8.3	38
32	Photocatalytic degradation of methylene blue dye by nonconventional synthesized SnO2 nanoparticles. *Environmental Nanotechnology, Monitoring and Management*, **2018**, 10, 339-350	3.3	37

31	Activity study of biogenic spherical silver nanoparticles towards microbes and oxidants. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 135, 639-45	4.4	35
30	Remediation of azo-dyes based toxicity by agro-waste cotton boll peels mediated palladium nanoparticles. *Journal of Saudi Chemical Society*, **2020**, 24, 267-281	4.3	30
29	A SEC-HPLC-ICP MS hyphenated technique for identification of sulfur-containing arsenic metabolites in biological samples. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2008**, 874, 64-76	3.2	27
28	Determination of synthetic and natural colorants in selected green colored foodstuffs through reverse phase-high performance liquid chromatography. *Food Chemistry*, **2019**, 278, 381-387	8.5	26
27	Tyrosine mediated synthesis of SnO2 nanoparticles and their photocatalytic activity towards Violet 4 BSN dye. *Journal of Molecular Liquids*, **2016**, 221, 415-421	6	24
26	Speciation of chromium in soil and sludge in the surrounding tannery region, ranipet, Tamil Nadu. *ISRN Toxicology*, **2011**, 2011, 697980		23
25	Biosynthesis of Copper Oxide nanoparticles from Drypetes sepiaria Leaf extract and their catalytic activity to dye degradation. *IOP Conference Series: Materials Science and Engineering*, **2017**, 263, 022012	0.4	22
24	Green Chemical Approach: Low-Melting Mixture as a Green Solvent for Efficient Michael Addition of Homophthalimides with Chalcones. *Industrial & Engineering Chemistry Research*, **2014**, 53, 10814-10819	3.8	21
23	Magnetic memory effect in chelated zero valent iron nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 3839-3841	2.8	20
22	Appraisal of conjugated linoleic acid production by probiotic potential of Pediococcus spp. GS4. *Applied Biochemistry and Biotechnology*, **2012**, 168, 1265-76	3.2	20
21	Water mediated catalyst-free efficient domino synthesis of 9-(quinolin-2(1H)-one)-xanthene-1,8(5H,9H)-diones using parallel synthesizer. *Tetrahedron Letters*, **2014**, 55, 3717-3720	2	18
20	Biogenic Ceria Nanoparticles (CeO NPs) for Effective Photocatalytic and Cytotoxic Activity. *Bioengineering*, **2020**, 7,	5.3	17
19	Gold nanoparticles by Terminalia bellirica aqueous extract a rapid green method. *Journal of Experimental Nanoscience*, **2014**, 9, 825-830	1.9	16
18	Quinoline-3-carboxylates as potential antibacterial agents. *Research on Chemical Intermediates*, **2012**, 38, 1819-1826	2.8	14
17	Synthesis, characterization and photocatalytic activity of Zn2+, Mn2+ and Co2+ doped SnO2 nanoparticles. *Biointerface Research in Applied Chemistry*, **2019**, 9, 4199-4204	2.8	11
16	High reduction of 4-nitrophenol using reduced graphene oxide/Ag synthesized with tyrosine. *Environmental Chemistry Letters*, **2017**, 15, 467-474	13.3	10
15	Mineralization of toxic industrial dyes by gallic acid mediated synthesized photocatalyst SnO2 nanoparticles. *Environmental Technology and Innovation*, **2019**, 13, 197-210	7	10
14	Highly fluorescent and biocompatible iridium nanoclusters for cellular imaging. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 1993-2000	4.5	9

List of Publications

13	Flower-shaped ZnO nanoparticles as an efficient, heterogeneous and reusable catalyst in the synthesis of N-arylhomophthalimides and benzannelated isoquinolinones. *Research on Chemical Intermediates*, **2012**, 38, 1881-1892	2.8	8
12	Silver nanoparticles: Potential as insecticidal and microbial biopesticides **2019**, 281-302		5
11	Green synthesis of nano-titania (TiO2 NPs) utilizing aqueous Eucalyptus globulus leaf extract: applications in the synthesis of 4H-pyran derivatives. *Research on Chemical Intermediates*, **2019**, 47, 3919	2.8	5
10	Stability-Indicating HPLC Method for the Simultaneous Determination of Valsartan and Ezetimibe in Pharmaceuticals. *Tropical Journal of Pharmaceutical Research*, **2014**, 13, 809	0.8	5
9	Zinc oxide nanoparticles catalyzed condensation reaction of isocoumarins and 1,7-heptadiamine in the formation of bis-isoquinolinones. *Scientific World Journal, The*, **2012**, 2012, 619080	2.2	5
8	Comparative pharmacokinetics study of two different clindamycin capsule formulations: a randomized, two-period, two-sequence, two-way crossover clinical trial in healthy volunteers. *Arzneimittelforschung*, **2011**, 61, 538-43		4
7	Montmorillonite-KSF-catalyzed synthesis of 4-heteroarylidene-N-arylhomophthalimides by Knoevenagel condensation. *Research on Chemical Intermediates*, **2015**, 41, 5509-5519	2.8	3
6	Synthesis of gold nanoparticles by cotton peels aqueous extract and their catalytic efficiency for the degradation of dyes and antioxidant activity. *IET Nanobiotechnology*, **2018**, 12, 156-165	2	3
5	Scopes of green synthesized metal and metal oxide nanomaterials in antimicrobial therapy **2016**, 313-341		2
4	Synthesis of different metallochlorophyllins and quantification in food samples by reversed phase - high performance liquid chromatography. *Natural Product Research*, **2019**, 33, 3120-3126	2.3	2
3	Waste to wealth: a solution to textile dyes related pollution. *Materials Research Express*, **2020**, 7, 024001	1.7	1
2	Changing Concept of Arsenic Toxicity with Development of Speciation Techniques **2015**, 179-201		1
1	Green Biosynthesis of Tin Oxide Nanomaterials Mediated by Agro-Waste Cotton Boll Peel Extracts for the Remediation of Environmental Pollutant Dyes.. *ACS Omega*, **2022**, 7, 15423-15438	3.9	1