

Indrajit Sinha

List of Publications by Year in descending order

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71
papers

1,348
citations

331670

21
h-index

377865

34
g-index

74
all docs

74
docs citations

74
times ranked

1548
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of pH in the green synthesis of silver nanoparticles. <i>Materials Letters</i> , 2009, 63, 425-427.	2.6	128
2	Arsenic removal from water by starch functionalized maghemite nano-adsorbents: Thermodynamics and kinetics investigations. <i>Colloids and Interface Science Communications</i> , 2020, 36, 100263.	4.1	75
3	Structural and surface plasmon behavior of Cu nanoparticles using different stabilizers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 359, 88-94.	4.7	68
4	Solvothermal synthesis of Cu@MgO nanocomposite particles and their catalytic applications. <i>RSC Advances</i> , 2016, 6, 61927-61933.	3.6	63
5	Avrami exponent under transient and heterogeneous nucleation transformation conditions. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 919-925.	3.1	51
6	ZnO/CuO nanocomposites from recycled printed circuit board: preparation and photocatalytic properties. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16279-16288.	5.3	50
7	AgI/CuWO ₄ Z-scheme photocatalyst for the degradation of organic pollutants: Experimental and molecular dynamics studies. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 717-729.	9.4	50
8	Zn doping induced band gap widening of Ag ₂ O nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154127.	5.5	49
9	LSPR and SAXS studies of starch stabilized Ag@Cu alloy nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 668-674.	4.7	39
10	Green synthesis and catalytic application of curcumin stabilized silver nanoparticles. <i>Journal of Chemical Sciences</i> , 2016, 128, 1871-1878.	1.5	36
11	Adsorption mechanism of phenol, p-chlorophenol, and p-nitrophenol on magnetite surface: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2019, 288, 111053.	4.9	36
12	Kinetics of p-Nitrophenol Reduction Catalyzed by PVP Stabilized Copper Nanoparticles. <i>Catalysis Letters</i> , 2015, 145, 1885-1892.	2.6	35
13	Ag-Cu bimetallic nanocatalysts for p-nitrophenol reduction using a green hydrogen source. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 6148-6155.	6.7	35
14	High added-value materials recovery using electronic scrap-transforming waste to valuable products. <i>Journal of Cleaner Production</i> , 2022, 330, 129836.	9.3	35
15	Efficacy of bioconversion of paper mill bamboo sludge and lime waste by composting and vermiconversion technologies. <i>Chemosphere</i> , 2014, 109, 77-83.	8.2	34
16	Improved removal of Cr(VI) by starch functionalized iron oxide nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 2252-2258.	6.7	31
17	Halide perovskite-based photocatalysis systems for solar-driven fuel generation. <i>Solar Energy</i> , 2020, 208, 296-311.	6.1	31
18	In-situ H ₂ O ₂ production for tetracycline degradation on Ag/s-(Co ₃ O ₄ /NiFe ₂ O ₄) visible light magnetically recyclable photocatalyst. <i>Applied Surface Science</i> , 2022, 589, 153013.	6.1	28

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19	Starch functionalized magnetite nanoparticles: A green, biocatalyst for one-pot multicomponent synthesis of imidazopyrimidine derivatives in aqueous medium under ultrasound irradiation. <i>Journal of Molecular Structure</i> , 2020, 1203, 127410.	3.6	26
20	Synthesis of nanostructured Ag@Cu alloy ultra-fine particles. <i>Materials Letters</i> , 2009, 63, 2243-2245.	2.6	23
21	Catalytic activation of nitrobenzene on PVP passivated silver cluster: A DFT investigation. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25490.	2.0	22
22	Formation of fractal aggregates during green synthesis of silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 69-76.	1.9	19
23	Development of magnetically recyclable visible light photocatalysts for hydrogen peroxide production. <i>Materials Science in Semiconductor Processing</i> , 2020, 112, 105024.	4.0	18
24	Starch-functionalized magnetite nanoparticles for hexavalent chromium removal from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 12608-12619.	1.0	17
25	Computational Insight into the Mechanism of Arsenous Acid Adsorption on Magnetite (311) Surface. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19197-19201.	3.7	16
26	Amino Borate-Functionalized Reduced Graphene Oxide Further Functionalized with Copper Phthalocyanine Nanotubes for Reducing Friction and Wear. <i>ACS Applied Nano Materials</i> , 2020, 3, 5530-5541.	5.0	16
27	Experimental and molecular dynamics investigations on Z-scheme visible light Ag ₃ PO ₄ /CuWO ₄ photocatalysts for antibiotic degradation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107975.	6.7	16
28	Chromium removal from aqueous media by superparamagnetic starch functionalized maghemite nanoparticles. <i>Journal of Chemical Sciences</i> , 2015, 127, 1967-1976.	1.5	15
29	Glycerol as green hydrogen source for catalytic reduction over anisotropic silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 103471-103477.	3.6	15
30	Mechanism of visible light enhanced catalysis over curcumin functionalized Ag nanocatalysts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118534.	3.9	15
31	Visible light enhanced p-nitrophenol reduction by glycerol over Ag/Cu core-shell bimetallic nanocatalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105655.	6.7	15
32	Magnetic nanocomposites of Fe ₃ C or Ni-substituted (Fe ₃ C/Fe ₃ O ₄) with carbon for degradation of methylene orange and p-nitrophenol. <i>Journal of Cleaner Production</i> , 2021, 309, 127372.	9.3	15
33	Oxygen reduction reaction on anisotropic silver nanoparticles in alkaline media. <i>Chemical Physics Letters</i> , 2017, 680, 6-9.	2.6	14
34	Synergistic effect of Ni doping and oxygen vacancies on the visible light photocatalytic properties of Ag ₂ O nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110733.	4.0	14
35	Mechanism of triboactivity of Schiff bases: Experimental and molecular dynamics simulations studies. <i>Journal of Molecular Liquids</i> , 2019, 289, 111171.	4.9	13
36	Synthesis of anisotropic silver nanostructures in presence of polyvinyl pyrrolidone (PVP): LSPR and SAXS analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 390, 167-172.	4.7	12

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37	Curcumin-Functionalized Ag/Ag ₂ O Nanocomposites: Efficient Visible-Light Z-scheme Photocatalysts. <i>Photochemistry and Photobiology</i> , 2018, 94, 641-649.	2.5	12
38	Curcumin functionalized CuO/Ag nanocomposite: Efficient visible light Z-scheme photocatalyst for methyl orange degradation. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2019, 12, 100236.	2.9	12
39	Effect of the Eley-Rideal step on catalytic oxidation of CO under periodic external pressure. <i>Applied Surface Science</i> , 2009, 255, 6168-6172.	6.1	11
40	Experimental and DFT calculation study of interaction between silver nanoparticle and 1-butyl-3-methyl imidazolium tetrafluoroborate ionic liquid. <i>Heliyon</i> , 2021, 7, e06065.	3.2	11
41	Correlating SAXS analysis with LSPR behavior: poly(vinyl alcohol)-stabilized Ag nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4387-4394.	1.9	10
42	First-Order Phase Transition in a Modified Ziff-Gulari-Barshad Model with Self-oscillating Reactant Coverages. <i>Journal of Statistical Physics</i> , 2012, 146, 669-686.	1.2	10
43	Interfacial phenomena during Fenton reaction on starch stabilized magnetite nanoparticles: Molecular dynamics and experimental investigations. <i>Journal of Molecular Liquids</i> , 2020, 318, 114037.	4.9	10
44	Mechanism of phenol and p-nitrophenol adsorption on kaolinite surface in aqueous medium: A molecular dynamics study. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 116, 108251.	2.4	10
45	Ag-Cu Bimetallic Nanoparticles as Efficient Oxygen Reduction Reaction Electrocatalysts in Alkaline Media. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1765-1772.	0.9	9
46	Theoretical and experimental studies of pyranopyrazoles and their tribological compatibility with a borate ester. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125497.	4.7	9
47	Isothermal nanocrystallization kinetics during polymorphic transformation. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 361-367.	3.1	8
48	Construction of a Visible Light Z-scheme Photocatalyst: Curcumin Functionalized Cu ₂ O/Ag Nanocomposites. <i>ChemistrySelect</i> , 2019, 4, 10709-10718.	1.5	7
49	Visible light photo-Fenton catalytic properties of starch functionalized iron oxyhydroxide nanocomposites. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 14, 100311.	2.9	6
50	Ziff-Gulari-Barshad model with CO desorption under oscillating reactant pressure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 3128-3133.	2.6	5
51	Photo-Fenton interfacial phenomena on graphene oxide: Computational and experimental investigations. <i>Journal of Molecular Liquids</i> , 2021, 342, 117461.	4.9	5
52	Visible Light Photocatalysis on Magnetically Recyclable Fe ₃ O ₄ /Cu ₂ O Nanostructures. <i>Catalysis Letters</i> , 2022, 152, 3259-3271.	2.6	5
53	Ionic Liquid Functionalized Cu ₂ O nanoparticles. <i>Journal of Molecular Structure</i> , 2022, 1262, 132961.	3.6	5
54	Monte Carlo simulation of a surface oxide model of CO oxidation. <i>Chemical Physics Letters</i> , 2012, 553, 30-35.	2.6	4

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55	Visible-Light Plasmonic Enhancement of Catalytic Activity of Anisotropic Silver Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 5130-5141.	0.9	3
56	Simulation studies on the nature of fractal dimensions of glass-ceramics at percolation threshold. Journal of Materials Science, 2003, 38, 3469-3472.	3.7	2
57	Mechanical working of 2124 Al alloy-SiCp cast composites. Journal of Materials Science, 2005, 40, 6045-6048.	3.7	2
58	Effect of discretization and finite nuclei radius on Kolmogorov-Johnson-Mehl-Avrami isothermal kinetics: A 2-dimensional study. Transactions of the Indian Institute of Metals, 2008, 61, 131-134.	1.5	2
59	Aggregation Characteristics of Cu and Ag Nanoparticles in Presence of Starch as the Polymer Stabilizer. Advanced Materials Research, 2010, 123-125, 615-618.	0.3	2
60	Effect of Droplet Size on the First Order Ziff-Gulari-Barshad (ZGB) Phase Transition. Journal of Statistical Physics, 2012, 147, 707-715.	1.2	2
61	Simulating interactions between nanoparticles in Lennard-Jones liquids. Chemical Physics Letters, 2013, 572, 85-89.	2.6	2
62	Kinetic Monte Carlo Simulation of the oscillatory catalytic CO oxidation using a modified Ziff-Gulari-Barshad model. Journal of Physics: Conference Series, 2014, 490, 012048.	0.4	2
63	Efficient removal of chromate ions from aqueous solution using a highly cost-effective ferric coordinated [3-(2-aminoethylamino)propyl]trimethoxysilane-MCM-41 adsorbent. RSC Advances, 2021, 11, 11204-11214.	3.6	2
64	Title is missing!. Journal of Materials Science, 2002, 37, 5215-5221.	3.7	1
65	Simulating the effect of glass microstructures on the crystallisation and percolation behaviour of glass-ceramics. Journal of Non-Crystalline Solids, 2003, 324, 36-49.	3.1	1
66	Catalytic Activation of PVP-Stabilized Gold/Silver Cluster on p- Nitrophenol Reduction: A DFT. , 0, , .		1
67	Introductory Chapter: Salient Features of Nanocatalysis. , 2019, , .		1
68	Simulation of microstructural evolution in glass-ceramics containing perovskite phases. Journal of Materials Science Letters, 1997, 16, 1914-1919.	0.5	0
69	Interaction forces between nanoparticles in Lennard-Jones (L-J) solvents. Journal of Physics: Conference Series, 2014, 490, 012050.	0.4	0
70	Effect of Surface Oxide Transformation on CO Oxidation. Brazilian Journal of Physics, 2015, 45, 72-78.	1.4	0
71	An overview of synthesis techniques for preparing doped photocatalysts. , 2020, , 1-13.		0