

# 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	High added-value materials recovery using electronic scrap-transforming waste to valuable products. Journal of Cleaner Production, 2022, 330, 129836.	9.3	35
2	Visible Light Photocatalysis on Magnetically Recyclable Fe <sub>3</sub> O <sub>4</sub> /Cu <sub>2</sub> O Nanostructures. Catalysis Letters, 2022, 152, 3259-3271.	2.6	5
3	Synergistic effect of Ni doping and oxygen vacancies on the visible light photocatalytic properties of Ag <sub>2</sub> O nanoparticles. Journal of Physics and Chemistry of Solids, 2022, 167, 110733.	4.0	14
4	In-situ H <sub>2</sub> O <sub>2</sub> production for tetracycline degradation on Ag/s-(Co <sub>3</sub> O <sub>4</sub> /NiFe <sub>2</sub> O <sub>4</sub> ) visible light magnetically recyclable photocatalyst. Applied Surface Science, 2022, 589, 153013.	6.1	28
5	Ionic Liquid Functionalized Cu <sub>2</sub> O nanoparticles. Journal of Molecular Structure, 2022, 1262, 132961.	3.6	5
6	Experimental and molecular dynamics investigations on Z-scheme visible light Ag <sub>3</sub> PO <sub>4</sub> /CuWO <sub>4</sub> photocatalysts for antibiotic degradation. Journal of Environmental Chemical Engineering, 2022, 10, 107975.	6.7	16
7	Mechanism of phenol and p-nitrophenol adsorption on kaolinite surface in aqueous medium: A molecular dynamics study. Journal of Molecular Graphics and Modelling, 2022, 116, 108251.	2.4	10
8	Efficient removal of chromate ions from aqueous solution using a highly cost-effective ferric coordinated [3-(2-aminoethylamino)propyl]trimethoxysilane- <sup>+</sup> MCM-41 adsorbent. RSC Advances, 2021, 11, 11204-11214.	3.6	2
9	Visible light enhanced p-nitrophenol reduction by glycerol over Ag/Cu core-shell bimetallic nanocatalysts. Journal of Environmental Chemical Engineering, 2021, 9, 105655.	6.7	15
10	Magnetic nanocomposites of Fe <sub>3</sub> C or Ni-substituted (Fe <sub>3</sub> C/Fe <sub>3</sub> O <sub>4</sub> ) with carbon for degradation of methylene orange and p-nitrophenol. Journal of Cleaner Production, 2021, 309, 127372.	9.3	15
11	AgI/CuWO <sub>4</sub> Z-scheme photocatalyst for the degradation of organic pollutants: Experimental and molecular dynamics studies. Journal of Colloid and Interface Science, 2021, 599, 717-729.	9.4	50
12	Photo-Fenton interfacial phenomena on graphene oxide: Computational and experimental investigations. Journal of Molecular Liquids, 2021, 342, 117461.	4.9	5
13	Experimental and DFT calculation study of interaction between silver nanoparticle and 1-butyl-3-methyl imidazolium tetrafluoroborate ionic liquid. Heliyon, 2021, 7, e06065.	3.2	11
14	Ag <sup>+</sup> /Cu Bimetallic Nanoparticles as Efficient Oxygen Reduction Reaction Electrocatalysts in Alkaline Media. Journal of Nanoscience and Nanotechnology, 2020, 20, 1765-1772.	0.9	9
15	Starch functionalized magnetite nanoparticles: A green, biocatalyst for one-pot multicomponent synthesis of imidazopyrimidine derivatives in aqueous medium under ultrasound irradiation. Journal of Molecular Structure, 2020, 1203, 127410.	3.6	26
16	Interfacial phenomena during Fenton reaction on starch stabilized magnetite nanoparticles: Molecular dynamics and experimental investigations. Journal of Molecular Liquids, 2020, 318, 114037.	4.9	10
17	Halide perovskite-based photocatalysis systems for solar-driven fuel generation. Solar Energy, 2020, 208, 296-311.	6.1	31
18	Theoretical and experimental studies of pyranopyrazoles and their tribological compatibility with a borate ester. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 606, 125497.	4.7	9

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19	Mechanism of visible light enhanced catalysis over curcumin functionalized Ag nanocatalysts. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118534.	3.9	15
20	Amino Borate-Functionalized Reduced Graphene Oxide Further Functionalized with Copper Phthalocyanine Nanotubes for Reducing Friction and Wear. ACS Applied Nano Materials, 2020, 3, 5530-5541.	5.0	16
21	An overview of synthesis techniques for preparing doped photocatalysts. , 2020, , 1-13.		0
22	Zn doping induced band gap widening of Ag <sub>2</sub> O nanoparticles. Journal of Alloys and Compounds, 2020, 832, 154127.	5.5	49
23	Development of magnetically recyclable visible light photocatalysts for hydrogen peroxide production. Materials Science in Semiconductor Processing, 2020, 112, 105024.	4.0	18
24	Arsenic removal from water by starch functionalized maghemite nano-adsorbents: Thermodynamics and kinetics investigations. Colloids and Interface Science Communications, 2020, 36, 100263.	4.1	75
25	Visible light photo-Fenton catalytic properties of starch functionalized iron oxyhydroxide nanocomposites. Environmental Nanotechnology, Monitoring and Management, 2020, 14, 100311.	2.9	6
26	Introductory Chapter: Salient Features of Nanocatalysis. , 2019, , .		1
27	Computational Insight into the Mechanism of Arsenous Acid Adsorption on Magnetite (311) Surface. Industrial & Engineering Chemistry Research, 2019, 58, 19197-19201.	3.7	16
28	Construction of a Visible Light Z-scheme Photocatalyst: Curcumin Functionalized Cu <sub>2</sub> O/Ag Nanocomposites. ChemistrySelect, 2019, 4, 10709-10718.	1.5	7
29	Mechanism of triboactivity of Schiff bases: Experimental and molecular dynamics simulations studies. Journal of Molecular Liquids, 2019, 289, 111171.	4.9	13
30	Curcumin functionalized CuO/Ag nanocomposite: Efficient visible light Z-scheme photocatalyst for methyl orange degradation. Environmental Nanotechnology, Monitoring and Management, 2019, 12, 100236.	2.9	12
31	Adsorption mechanism of phenol, p-chlorophenol, and p-nitrophenol on magnetite surface: A molecular dynamics study. Journal of Molecular Liquids, 2019, 288, 111053.	4.9	36
32	Visible-Light Plasmonic Enhancement of Catalytic Activity of Anisotropic Silver Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 5130-5141.	0.9	3
33	ZnO/CuO nanocomposites from recycled printed circuit board: preparation and photocatalytic properties. Environmental Science and Pollution Research, 2019, 26, 16279-16288.	5.3	50
34	Curcumin-Functionalized Ag/Ag <sub>2</sub> O Nanocomposites: Efficient Visible-Light Z-scheme Photocatalysts. Photochemistry and Photobiology, 2018, 94, 641-649.	2.5	12
35	Catalytic activation of nitrobenzene on PVP passivated silver cluster: A DFT investigation. International Journal of Quantum Chemistry, 2018, 118, e25490.	2.0	22
36	Oxygen reduction reaction on anisotropic silver nanoparticles in alkaline media. Chemical Physics Letters, 2017, 680, 6-9.	2.6	14

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37	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
38	Green synthesis and catalytic application of curcumin stabilized silver nanoparticles. <i>Journal of Chemical Sciences</i> , 2016, 128, 1871-1878.	1.5	36
39	Glycerol as green hydrogen source for catalytic reduction over anisotropic silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 103471-103477.	3.6	15
40	Solvothermal synthesis of CuO@MgO nanocomposite particles and their catalytic applications. <i>RSC Advances</i> , 2016, 6, 61927-61933.	3.6	63
41	Starch-functionalized magnetite nanoparticles for hexavalent chromium removal from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 12608-12619.	1.0	17
42	Chromium removal from aqueous media by superparamagnetic starch functionalized maghemite nanoparticles. <i>Journal of Chemical Sciences</i> , 2015, 127, 1967-1976.	1.5	15
43	Effect of Surface Oxide Transformation on CO Oxidation. <i>Brazilian Journal of Physics</i> , 2015, 45, 72-78.	1.4	0
44	Kinetics of p-Nitrophenol Reduction Catalyzed by PVP Stabilized Copper Nanoparticles. <i>Catalysis Letters</i> , 2015, 145, 1885-1892.	2.6	35
45	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
46	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
47	Kinetic Monte Carlo Simulation of the oscillatory catalytic CO oxidation using a modified Ziff-Gulari-Barshad model. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012048.	0.4	2
48	Interaction forces between nanoparticles in Lennard-Jones (L-J) solvents. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012050.	0.4	0
49	Simulating interactions between nanoparticles in Lennard-Jones liquids. <i>Chemical Physics Letters</i> , 2013, 572, 85-89.	2.6	2
50	Monte Carlo simulation of a surface oxide model of CO oxidation. <i>Chemical Physics Letters</i> , 2012, 553, 30-35.	2.6	4
51	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
52	Effect of Droplet Size on the First Order Ziff-Gulari-Barshad (ZGB) Phase Transition. <i>Journal of Statistical Physics</i> , 2012, 147, 707-715.	1.2	2
53	Avrami exponent under transient and heterogeneous nucleation transformation conditions. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 919-925.	3.1	51
54	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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55	Formation of fractal aggregates during green synthesis of silver nanoparticles. Journal of Nanoparticle Research, 2011, 13, 69-76.	1.9	19
56	Correlating SAXS analysis with LSPR behavior: poly(vinyl alcohol)-stabilized Ag nanoparticles. Journal of Nanoparticle Research, 2011, 13, 4387-4394.	1.9	10
57	LSPR and SAXS studies of starch stabilized Ag-Cu alloy nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 668-674.	4.7	39
58	Ziff-Gulari-Barshad model with CO desorption under oscillating reactant pressure. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3128-3133.	2.6	5
59	Structural and surface plasmon behavior of Cu nanoparticles using different stabilizers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 359, 88-94.	4.7	68
60	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
61	Role of pH in the green synthesis of silver nanoparticles. Materials Letters, 2009, 63, 425-427.	2.6	128
62	Synthesis of nanostructured Ag-Cu alloy ultra-fine particles. Materials Letters, 2009, 63, 2243-2245.	2.6	23
63	Effect of the Eley-Rideal step on catalytic oxidation of CO under periodic external pressure. Applied Surface Science, 2009, 255, 6168-6172.	6.1	11
64	Isothermal nanocrystallization kinetics during polymorphic transformation. Journal of Non-Crystalline Solids, 2009, 355, 361-367.	3.1	8
65	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
66	Mechanical working of 2124 Al alloy-SiCp cast composites. Journal of Materials Science, 2005, 40, 6045-6048.	3.7	2
67	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
68	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
69	Title is missing!. Journal of Materials Science, 2002, 37, 5215-5221.	3.7	1
70	Simulation of microstructural evolution in glass-ceramics containing perovskite phases. Journal of Materials Science Letters, 1997, 16, 1914-1919.	0.5	0
71	Catalytic Activation of PVP-Stabilized Gold/Silver Cluster on p- Nitrophenol Reduction: A DFT. , 0, , .		1