Anandarup Goswami

List of Publications by Citations

45 papers	5,918 citations	25 h-index	48 g-index
48 ext. papers	6,776 ext. citations	10.4 avg, IF	5.81 L-index

#	Paper	IF	Citations
45	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. *Chemical Reviews*, **2016**, 116, 3722-811	68.1	1452
44	Cobalt-embedded nitrogen-rich carbon nanotubes efficiently catalyze hydrogen evolution reaction at all pH values. *Angewandte Chemie - International Edition*, **2014**, 53, 4372-6	16.4	774
43	Core-shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. *Chemical Society Reviews*, **2015**, 44, 7540-90	58.5	696
42	Covalent functionalization of monolayered transition metal dichalcogenides by phase engineering. *Nature Chemistry*, **2015**, 7, 45-9	17.6	524
41	Efficient noble metal-free (electro)catalysis of water and alcohol oxidations by zinc-cobalt layered double hydroxide. *Journal of the American Chemical Society*, **2013**, 135, 17242-5	16.4	335
40	Cobalt-Embedded Nitrogen-Rich Carbon Nanotubes Efficiently Catalyze Hydrogen Evolution Reaction at All pH Values. *Angewandte Chemie*, **2014**, 126, 4461-4465	3.6	328
39	N-, O-, and S-Tridoped Carbon-Encapsulated Co9S8 Nanomaterials: Efficient Bifunctional Electrocatalysts for Overall Water Splitting. *Advanced Functional Materials*, **2017**, 27, 1606585	15.6	286
38	N-, O-, and S-tridoped nanoporous carbons as selective catalysts for oxygen reduction and alcohol oxidation reactions. *Journal of the American Chemical Society*, **2014**, 136, 13554-7	16.4	271
37	Efficient oxygen evolution reaction catalyzed by low-density Ni-doped Co3O4 nanomaterials derived from metal-embedded graphitic C3N4. *Chemical Communications*, **2013**, 49, 7522-4	5.8	194
36	[email□protected]xP Core□Shell Heterogeneous Nanoparticles as Efficient Oxygen Evolution Reaction Catalysts. *ACS Catalysis*, **2017**, 7, 7038-7042	13.1	111
35	Polypyrrole-derived nitrogen and oxygen co-doped mesoporous carbons as efficient metal-free electrocatalyst for hydrazine oxidation. *Advanced Materials*, **2014**, 26, 6510-6	24	97
34	□FeO/TiO 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. *Nanoscale*, **2017**, 9, 134-142	7.7	85
33	Ultrasmall palladium nanoparticles supported on amine-functionalized SBA-15 efficiently catalyze hydrogen evolution from formic acid. *Journal of Materials Chemistry A*, **2014**, 2, 20444-20449	13	78
32	Cu-doped carbon nitride: Bio-inspired synthesis of H2-evolving electrocatalysts using graphitic carbon nitride (g-C3N4) as a host material. *Applied Surface Science*, **2015**, 357, 221-228	6.7	74
31	Dendritic silica nanomaterials (KCC-1) with fibrous pore structure possess high DNA adsorption capacity and effectively deliver genes in vitro. *Langmuir*, **2014**, 30, 10886-98	4	71
30	Reductive deprotection of monolayer protected nanoclusters: an efficient route to supported ultrasmall au nanocatalysts for selective oxidation. *Small*, **2014**, 10, 1473-8	11	54
29	In Situ Generation of Pd-Pt Core-Shell Nanoparticles on Reduced Graphene Oxide (Pd@Pt/rGO) Using Microwaves: Applications in Dehalogenation Reactions and Reduction of Olefins. *ACS Applied Materials & Interfaces*, **2017**, 9, 2815-2824	9.5	53

28	An efficient copper-based magnetic nanocatalyst for the fixation of carbon dioxide at atmospheric pressure. *Scientific Reports*, **2018**, 8, 1901	4.9	49
27	A general approach to creating soluble catalytic polymers heterogenized in microcapsules. *Organic Letters*, **2007**, 9, 3449-51	6.2	42
26	Yeast cells-derived hollow core/shell heteroatom-doped carbon microparticles for sustainable electrocatalysis. *ACS Applied Materials & Interfaces*, **2015**, 7, 1978-86	9.5	40
25	Lithium phenolates solvated by tetrahydrofuran and 1,2-dimethoxyethane: structure determination using the method of continuous variation. *Journal of the American Chemical Society*, **2009**, 131, 13142-54	16.4	35
24	Significant Enhancement of Photoactivity in Hybrid TiO2/g-C3N4 Nanorod Catalysts Modified with CuNi-Based Nanostructures. *ACS Applied Nano Materials*, **2018**, 1, 2526-2535	5.6	31
23	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. *Chemical Engineering Journal*, **2020**, 382, 122469	14.7	28
22	Syntheses of N-Doped Carbon Quantum Dots (NCQDs) from Bioderived Precursors: A Timely Update. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3-49	8.3	26
21	Hematite Photoanode with Complex Nanoarchitecture Providing Tunable Gradient Doping and Low Onset Potential for Photoelectrochemical Water Splitting. *ChemSusChem*, **2018**, 11, 1873-1879	8.3	25
20	Fe(III)-functionalized carbon dotsHighly efficient photoluminescence redox catalyst for hydrogenations of olefins and decomposition of hydrogen peroxide. *Applied Materials Today*, **2017**, 7, 179-184	6.6	23
19	Fibrous porous carbon electrocatalysts for hydrazine oxidation by using cellulose filter paper as precursor and self-template. *Carbon*, **2016**, 102, 97-105	10.4	23
18	Nitrogen-doped nanocarbons (NNCs): Current status and future opportunities. *Current Opinion in Green and Sustainable Chemistry*, **2019**, 15, 67-76	7.9	14
17	Pt nanoparticles decorated TiO2 nanotubes for the reduction of olefins. *Applied Materials Today*, **2018**, 10, 86-92	6.6	13
16	Silane-functionalized polybenzoxazines: A superior corrosion resistant coating for steel plates. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2017**, 68, 1343-1354	1.6	13
15	In Situ Growth and Characterization of Metal Oxide Nanoparticles within Polyelectrolyte Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 11522-7	16.4	12
14	Glutathione-triggered release of model drug molecules from mesoporous silica nanoparticles via a non-redox process. *RSC Advances*, **2015**, 5, 28836-28839	3.7	10
13	Phosphorene: Current status, challenges and opportunities. *Frontiers of Chemical Science and Engineering*, **2019**, 13, 296-309	4.5	10
12	Nanostructured TiO2 Catalyzed Oxidations of Caffeine and Isocaffeine and Their Cytotoxicity and Genotoxicity Towards Ovarian Cancer Cells. *BioNanoScience*, **2014**, 4, 27-36	3.4	9
11	Efficient Tertiary Amine/Weak Acid Bifunctional Mesoporous Silica Catalysts for Michael Addition Reactions. *ChemCatChem*, **2013**, 5, 910-919	5.2	9

10	Biocompatibility of calcined mesoporous silica particles with ventricular myocyte structure and function. *Chemical Research in Toxicology*, **2013**, 26, 26-36	4	6
9	Low temperature processed titanium oxide thin-film using scalable wire-bar coating. *Materials Research Express*, **2019**, 6, 126427	1.7	5
8	Iron Oxide-Cobalt Nanocatalyst for --Boc Protection and Arylation of Phenols. *Nanomaterials*, **2018**, 8,	5.4	3
7	AgNWs-a-TiOx: a scalable wire bar coated core□hell nanocomposite as transparent thin film electrode for flexible electronics applications. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 6454-6464	2.1	3
6	Chemistry of magnetic covalent organic frameworks (MagCOFs): From synthesis to separation applications. *Materials Advances*,	3.3	2
5	Low Energy TEM Characterizations of Ordered Mesoporous Silica-Based Nanocomposite Materials for Catalytic Applications. *Microscopy and Microanalysis*, **2014**, 20, 1900-1901	0.5	1
4	Directly grown TiO2 nanotubes on carbon nanofibers for photoelectrochemical water splitting. *MRS Advances*, **2016**, 1, 3145-3150	0.7	1
3	In Situ Growth and Characterization of Metal Oxide Nanoparticles within Polyelectrolyte Membranes. *Angewandte Chemie*, **2016**, 128, 11694-11699	3.6	1
2	Synthesis and structural characterization of the formato bridged Cu(ii) cubane: Crystallographic evidence of atmospheric CO2 fixation as formate in a tertranuclear Cu(II) cluster. *Journal of Molecular Structure*, **2020**, 1219, 129064	3.4	
1	New frontiers for heterogeneous catalysis **2022**, 1-27		