

Sasanka Deka

List of Publications by Year in descending order

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docs citations

73
times ranked

6384
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper Cobalt Sulfide Nanosheets Realizing a Promising Electrocatalytic Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 5871-5879.	11.2	437
2	CdSe/CdS/ZnS Double Shell Nanorods with High Photoluminescence Efficiency and Their Exploitation As Biolabeling Probes. Journal of the American Chemical Society, 2009, 131, 2948-2958.	13.7	247
3	Phosphine-Free Synthesis of p-Type Copper(I) Selenide Nanocrystals in Hot Coordinating Solvents. Journal of the American Chemical Society, 2010, 132, 8912-8914.	13.7	232
4	Morphology Controlled Synthesis of Nanoporous Co ₃ O ₄ Nanostructures and Their Charge Storage Characteristics in Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 10665-10672.	8.0	229
5	Octapod-Shaped Colloidal Nanocrystals of Cadmium Chalcogenides via One-Pot Cation Exchange and Seeded Growth. Nano Letters, 2010, 10, 3770-3776.	9.1	171
6	Multiply Twinned AgNi Alloy Nanoparticles as Highly Active Catalyst for Multiple Reduction and Degradation Reactions. ACS Applied Materials & Interfaces, 2014, 6, 16071-16081.	8.0	140
7	Physical properties of elongated inorganic nanoparticles. Physics Reports, 2011, 501, 75-221.	25.6	138
8	Synthesis and magnetic properties of Mn doped ZnO nanowires. Solid State Communications, 2007, 142, 190-194.	1.9	135
9	Efficient hydrogen/oxygen evolution and photocatalytic dye degradation and reduction of aqueous Cr(VI) by surfactant free hydrophilic Cu ₂ ZnSnS ₄ nanoparticles. Journal of Materials Chemistry A, 2015, 3, 8098-8106.	10.3	134
10	Fluorescent Asymmetrically Cobalt-Tipped CdSe@CdS Core@Shell Nanorod Heterostructures Exhibiting Room-Temperature Ferromagnetic Behavior. Journal of the American Chemical Society, 2009, 131, 12817-12828.	13.7	119
11	Synthesis of surfactant-free SnS nanorods by a solvothermal route with better electrochemical properties towards supercapacitor applications. RSC Advances, 2015, 5, 17228-17235.	3.6	104
12	Novel mitochondria targeted copper(II) complexes of ferrocenyl terpyridine and anticancer active 8-hydroxyquinolines showing remarkable cytotoxicity, DNA and protein binding affinity. Dalton Transactions, 2017, 46, 396-409.	3.3	97
13	Promising visible-light driven hydrogen production from water on a highly efficient CuCo ₂ S ₄ nanosheet photocatalyst. Journal of Materials Chemistry A, 2019, 7, 6985-6994.	10.3	84
14	Ferromagnetism induced by hydrogen in polycrystalline nonmagnetic Zn _{0.95} Co _{0.05} O. Applied Physics Letters, 2006, 89, 032508.	3.3	78
15	Design of 3-Dimensionally Self-Assembled CeO ₂ Nanocube as a Breakthrough Catalyst for Efficient Alkylarene Oxidation in Water. ACS Catalysis, 2014, 4, 3169-3179.	11.2	77
16	Development of SnS ₂ /RGO nanosheet composite for cost-effective aqueous hybrid supercapacitors. Nanotechnology, 2017, 28, 025401.	2.6	74
17	Size-dependent magnetic properties of nanocrystalline yttrium iron garnet powders. Journal of Magnetism and Magnetic Materials, 2006, 301, 212-219.	2.3	71
18	Morphology oriented surfactant dependent CoO and reaction time dependent Co ₃ O ₄ nanocrystals from single synthesis method and their optical and magnetic properties. CrystEngComm, 2013, 15, 8465.	2.6	71

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19	Faster Ion Switching NiCo ₂ O ₄ Nanoparticle Electrode-Based Supercapacitor Device with High Performances and Long Cycling Stability. ACS Applied Energy Materials, 2018, 1, 6999-7006.	5.1	66
20	(100) surface-exposed CeO ₂ nanocubes as an efficient heterogeneous catalyst in the tandem oxidation of benzyl alcohol, para-chlorobenzyl alcohol and toluene to the corresponding aldehydes selectively. Journal of Materials Chemistry A, 2015, 3, 6909-6920.	10.3	64
21	Photoinduced ultrafast charge separation in colloidal 2-dimensional CdSe/CdS-Au hybrid nanoplatelets and corresponding application in photocatalysis. Nanoscale, 2016, 8, 15802-15812.	5.6	63
22	Enhanced Permeability and Dielectric Constant of NiZn Ferrite Synthesized in Nanocrystalline Form by a Combustion Method. Journal of the American Ceramic Society, 2007, 90, 1494-1499.	3.8	62
23	Characterization of nanosized NiZn ferrite powders synthesized by an autocombustion method. Materials Chemistry and Physics, 2006, 100, 98-101.	4.0	60
24	Synthesis and Ferromagnetic Properties of Lightly Doped Nanocrystalline Zn _{1-x} CoxO. Chemistry of Materials, 2004, 16, 1168-1169.	6.7	58
25	Electronic structure and ferromagnetism of polycrystalline Zn _{1-x} CoxO (0 ≤ x ≤ 0.15). Solid State Communications, 2005, 134, 665-669.	1.9	58
26	Experimental comparison of the structural, magnetic, electronic, and optical properties of ferromagnetic and paramagnetic polycrystalline Zn _{1-x} CoxO (x=0,0.05,0.1). Physical Review B, 2006, 74, .	3.2	58
27	Direct Thermal Polymerization Approach to N-Rich Holey Carbon Nitride Nanosheets and Their Promising Photocatalytic H ₂ Evolution and Charge-Storage Activities. ACS Sustainable Chemistry and Engineering, 2019, 7, 9428-9438.	6.7	50
28	Introducing nanocrystalline CeO ₂ as heterogeneous environmental friendly catalyst for the aerobic oxidation of para-xylene to terephthalic acid in water. Journal of Materials Chemistry A, 2013, 1, 7091.	10.3	46
29	Tandem Photocatalysis of Graphene-Stacked SnS ₂ Nanodiscs and Nanosheets with Efficient Carrier Separation. ACS Omega, 2016, 1, 127-137.	3.5	44
30	Bioconjugation of Rod-Shaped Fluorescent Nanocrystals for Efficient Targeted Cell Labeling. Langmuir, 2009, 25, 12614-12622.	3.5	39
31	Superbending (0°–180°) and High-Voltage Operating Metal-Oxide-Based Flexible Supercapacitor. ACS Applied Materials & Interfaces, 2019, 11, 37665-37674.	8.0	38
32	Development and Properties of Surfactant-Free Water-Dispersible Cu ₂ ZnSnS ₄ Nanocrystals: A Material for Low-Cost Photovoltaics. ChemPhysChem, 2013, 14, 2793-2799.	2.1	37
33	Direct Observation of Ni Metal Impurities in Lightly Doped Ferromagnetic Polycrystalline (ZnNi)O. Chemistry of Materials, 2005, 17, 6507-6510.	6.7	36
34	Hollow Cobalt Sulfide Nanoparticles: A Robust and Low-Cost pH-Universal Oxygen Evolution Electrocatalyst. ACS Applied Energy Materials, 2020, 3, 977-986.	5.1	36
35	Promising carbon nanosheet-based supercapacitor electrode materials from low-grade coals. Microporous and Mesoporous Materials, 2017, 253, 80-90.	4.4	35
36	CuCo-Layered Double Hydroxide Nanosheet-Based Polyhedrons for Flexible Supercapacitor Cells. ACS Applied Nano Materials, 2021, 4, 5250-5262.	5.0	35

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37	New synthesis of two-dimensional CdSe/CdS core@shell dot-in-hexagonal platelet nanoheterostructures with interesting optical properties. <i>Nanoscale</i> , 2014, 6, 10347-10354.	5.6	33
38	Magnetic and Mössbauer spectroscopic studies of NiZn ferrite nanoparticles synthesized by a combustion method. <i>Hyperfine Interactions</i> , 2008, 183, 99-107.	0.5	32
39	Coral-Shaped Bifunctional NiCo ₂ O ₄ Nanostructure: A Material for Highly Efficient Electrochemical Charge Storage and Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 6793-6804.	5.1	31
40	Multifunctional Copper-Based Quaternary Chalcogenide Semiconductors Toward State-of-the-Art Energy Applications. <i>ChemNanoMat</i> , 2019, 5, 373-402.	2.8	30
41	Anisotropic kesterite Cu ₂ ZnSnSe ₄ colloidal nanoparticles: Photoelectrical and photocatalytic properties. <i>Materials Chemistry and Physics</i> , 2015, 162, 608-616.	4.0	28
42	Enhancement of the phase transformation temperature of γ -Fe ₂ O ₃ by Zn ²⁺ -doping. <i>Journal of Materials Chemistry</i> , 2007, 17, 453-456.	6.7	27
43	A Superior and Stable Electrocatalytic Oxygen Evolution Reaction by One-Dimensional FeCoP Colloidal Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5468-5477.	8.0	26
44	Metal Nanocrystals and Their Applications in Biomedical Systems. <i>Science of Advanced Materials</i> , 2011, 3, 169-195.	0.7	25
45	One-Dimensional Multichannel g-C ₃ N _{4.7} Nanostructure Realizing an Efficient Photocatalytic Hydrogen Evolution Reaction and Its Theoretical Investigations. <i>ACS Applied Energy Materials</i> , 2021, 4, 3118-3129.	5.1	23
46	Ferrocene conjugated copper(II) complexes of terpyridine and traditional Chinese medicine (TCM) anticancer ligands showing selective toxicity towards cancer cells. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4287.	3.5	22
47	Directed holey and ordered g-C ₃ N _{4.5} nanosheets by a hard template nanocasting approach for sustainable visible-light hydrogen evolution with prominent quantum efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13328-13339.	10.3	21
48	Superparamagnetic Nanocrystalline ZnFe ₂ O ₄ with a Very High Curie Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3955-3958.	0.9	19
49	Physical Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013, , .	1.5	17
50	A facile synthesis strategy to couple porous nanocubes of CeO ₂ with Ag nanoparticles: an excellent catalyst with enhanced reactivity for the "click reaction" and carboxylation of terminal alkynes. <i>New Journal of Chemistry</i> , 2018, 42, 7314-7325.	2.8	17
51	Yolk Type Asymmetric Ag@Cu ₂ O Hybrid Nanoparticles on Graphene Substrate as Efficient Electrode Material for Hybrid Supercapacitors. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 233, 85-104.	2.8	17
52	Synthesis, Characterization and Optical Properties of Novel Hierarchical Flower Like Pyrite FeS ₂ Particles for Low Cost Photovoltaics. <i>Science of Advanced Materials</i> , 2013, 5, 788-795.	0.7	13
53	Surfactant directed Ag _{1-x} Ni _x alloy nanoparticle catalysed synthesis of aromatic azo derivatives from aromatic amines. <i>Applied Catalysis A: General</i> , 2016, 525, 50-58.	4.3	12
54	Photoelectrical properties of surfactant-free kesterite Cu ₂ ZnSnSe ₄ hydrophilic nanocrystal ink and the stability in polar solvents. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	11

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55	All-Solid-State Flexible Symmetric Supercapacitor Based on Morphology Oriented Amorphous Cu ^x Co ^{1-x} B Alloy Nanosheets for Energy Storage. Batteries and Supercaps, 2022, 5, .	4.7	11
56	N-doped graphene modulated N-rich carbon nitride realizing a promising all-solid-state flexible supercapacitor. Journal of Energy Storage, 2022, 52, 104731.	8.1	9
57	Preferential growth of Au on CdSe quantum dots using Langmuir-Blodgett technique. RSC Advances, 2014, 4, 64535-64541.	3.6	8
58	Exploration of magnetically separable Ag@Ag _x Ni _y core/graded-alloy-shell nanostructures. Chemical Communications, 2016, 52, 8737-8740.	4.1	8
59	PdSn hollow alloy nanoparticles prepared by in-situ galvanic replacement process for exclusive hydrogen evolution reaction and durable electrocatalysis. Applied Catalysis A: General, 2020, 599, 117575.	4.3	8
60	Deposition of Au nanoparticles inside porous CeO ₂ nanocubes using Langmuir-Blodgett technique. New Journal of Chemistry, 2018, 42, 1379-1386.	2.8	7
61	Single Step Synthesis and Properties of M/MFe ₂ O ₄ and PVDF/M/MFe ₂ O ₄ (M = Co, Ni) Magnetic Nanocomposites. Science of Advanced Materials, 2009, 1, 262-268.	0.7	7
62	Seeding of Au on CdSe/CdS nanoplates using Langmuir-Blodgett technique. RSC Advances, 2016, 6, 14658-14665.	3.6	6
63	Supercapacitors based on two-dimensional transition metal dichalcogenides and their hybrids. , 2021, , 159-191.		3
64	Optical Properties of Semiconductor Nanorods. Nanoscience and Technology, 2013, , 7-55.	1.5	3
65	Transition Metal Ion-induced Anisotropic Architectures Using 4,4'-dicarboxy-2,2'-bipyridyl-silver Nanopetals. Advanced Materials Letters, 2013, 4, 252-260.	0.6	3
66	Magnetic Properties of Nanorods. Nanoscience and Technology, 2013, , 133-213.	1.5	2
67	Hydrothermally Synthesized CuCo ₂ S ₄ Nanosheets as an Easily Accessible and Convenient Heterogeneous Catalyst for the Sonogashira Cross-Coupling Reactions. Frontiers in Materials, 2019, 6, .	2.4	2
68	Quantum Effects in Confined Systems. Nanoscience and Technology, 2013, , 1-6.	1.5	0
69	Electrical Properties of Nanorods. Nanoscience and Technology, 2013, , 57-85.	1.5	0
70	Optical Properties of Metal Nanorods. Nanoscience and Technology, 2013, , 87-131.	1.5	0
71	Catalytic Properties of Nanorods. Nanoscience and Technology, 2013, , 215-240.	1.5	0
72	Mechanical Properties of Nanorods and Melting Studies. Nanoscience and Technology, 2013, , 241-269.	1.5	0