

Sasanka Deka

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	All-Solid-State Flexible Symmetric Supercapacitor Based on Morphology Oriented Amorphous Cu ⁺ Co ⁺ B Alloy Nanosheets for Energy Storage. Batteries and Supercaps, 2022, 5, .	4.7	11
2	A Superior and Stable Electrocatalytic Oxygen Evolution Reaction by One-Dimensional FeCoP Colloidal Nanostructures. ACS Applied Materials & Interfaces, 2022, 14, 5468-5477.	8.0	26
3	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
4	Supercapacitors based on two-dimensional transition metal dichalcogenides and their hybrids. , 2021, , 159-191.		3
5	One-Dimensional Multichannel g-C ₃ N ₄ Nanostructure Realizing an Efficient Photocatalytic Hydrogen Evolution Reaction and Its Theoretical Investigations. ACS Applied Energy Materials, 2021, 4, 3118-3129.	5.1	23
6	CuCo-Layered Double Hydroxide Nanosheet-Based Polyhedrons for Flexible Supercapacitor Cells. ACS Applied Nano Materials, 2021, 4, 5250-5262.	5.0	35
7	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
8	Directed holey and ordered g-C ₃ N ₄ nanosheets by a hard template nanocasting approach for sustainable visible-light hydrogen evolution with prominent quantum efficiency. Journal of Materials Chemistry A, 2020, 8, 13328-13339.	10.3	21
9	Coral-Shaped Bifunctional NiCo ₂ O ₄ Nanostructure: A Material for Highly Efficient Electrochemical Charge Storage and Electrocatalytic Oxygen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 6793-6804.	5.1	31
10	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
11	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
12	Superbending (0°-180°) and High-Voltage Operating Metal-Oxide-Based Flexible Supercapacitor. ACS Applied Materials & Interfaces, 2019, 11, 37665-37674.	8.0	38
13	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
14	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
15	Multifunctional Copper-Based Quaternary Chalcogenide Semiconductors Toward State-of-the-Art Energy Applications. ChemNanoMat, 2019, 5, 373-402.	2.8	30
16	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. New Journal of Chemistry, 2018, 42, 7314-7325.	2.8	17
17	Ferrocene conjugated copper(II) complexes of terpyridine and traditional Chinese medicine (TCM) anticancer ligands showing selective toxicity towards cancer cells. Applied Organometallic Chemistry, 2018, 32, e4287.	3.5	22
18	Yolk Type Asymmetric Ag ₂ Cu ₂ O Hybrid Nanoparticles on Graphene Substrate as Efficient Electrode Material for Hybrid Supercapacitors. Zeitschrift Fur Physikalische Chemie, 2018, 233, 85-104.	2.8	17

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19	Deposition of Au nanoparticles inside porous CeO ₂ nanocubes using Langmuir-Blodgett technique. <i>New Journal of Chemistry</i> , 2018, 42, 1379-1386.	2.8	7
20	Faster Ion Switching NiCo ₂ O ₄ Nanoparticle Electrode-Based Supercapacitor Device with High Performances and Long Cycling Stability. <i>ACS Applied Energy Materials</i> , 2018, 1, 6999-7006.	5.1	66
21	Promising carbon nanosheet-based supercapacitor electrode materials from low-grade coals. <i>Microporous and Mesoporous Materials</i> , 2017, 253, 80-90.	4.4	35
22	Novel mitochondria targeted copper(II) complexes of ferrocenyl terpyridine and anticancer active 8-hydroxyquinolines showing remarkable cytotoxicity, DNA and protein binding affinity. <i>Dalton Transactions</i> , 2017, 46, 396-409.	3.3	97
23	Development of SnS ₂ /RGO nanosheet composite for cost-effective aqueous hybrid supercapacitors. <i>Nanotechnology</i> , 2017, 28, 025401.	2.6	74
24	Copper Cobalt Sulfide Nanosheets Realizing a Promising Electrocatalytic Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 5871-5879.	11.2	437
25	Surfactant directed Ag ^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
26	Photoinduced ultrafast charge separation in colloidal 2-dimensional CdSe/CdS-Au hybrid nanoplatelets and corresponding application in photocatalysis. <i>Nanoscale</i> , 2016, 8, 15802-15812.	5.6	63
27	Tandem Photocatalysis of Graphene-Stacked SnS ₂ Nanodiscs and Nanosheets with Efficient Carrier Separation. <i>ACS Omega</i> , 2016, 1, 127-137.	3.5	44
28	Exploration of magnetically separable Ag@Ag _x Ni _y core/graded-alloy-shell nanostructures. <i>Chemical Communications</i> , 2016, 52, 8737-8740.	4.1	8
29	Seeding of Au on CdSe/CdS nanoplates using Langmuir-Blodgett technique. <i>RSC Advances</i> , 2016, 6, 14658-14665.	3.6	6
30	Synthesis of surfactant-free SnS nanorods by a solvothermal route with better electrochemical properties towards supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 17228-17235.	3.6	104
31	Efficient hydrogen/oxygen evolution and photocatalytic dye degradation and reduction of aqueous Cr(VI) by surfactant free hydrophilic Cu ₂ ZnSnS ₄ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8098-8106.	10.3	134
32	(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. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6909-6920.	10.3	64
33	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
34	Preferential growth of Au on CdSe quantum dots using Langmuir-Blodgett technique. <i>RSC Advances</i> , 2014, 4, 64535-64541.	3.6	8
35	Multiply Twinned AgNi Alloy Nanoparticles as Highly Active Catalyst for Multiple Reduction and Degradation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16071-16081.	8.0	140
36	Design of 3-Dimensionally Self-Assembled CeO ₂ Nanocube as a Breakthrough Catalyst for Efficient Alkylarene Oxidation in Water. <i>ACS Catalysis</i> , 2014, 4, 3169-3179.	11.2	77

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37	Photoelectrical properties of surfactant-free kesterite $\text{Cu}_2\text{ZnSnSe}_4$ hydrophilic nanocrystal ink and the stability in polar solvents. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	11
38	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
39	Quantum Effects in Confined Systems. <i>Nanoscience and Technology</i> , 2013, , 1-6.	1.5	0
40	Electrical Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013, , 57-85.	1.5	0
41	Optical Properties of Metal Nanorods. <i>Nanoscience and Technology</i> , 2013, , 87-131.	1.5	0
42	Magnetic Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013, , 133-213.	1.5	2
43	Catalytic Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013, , 215-240.	1.5	0
44	Mechanical Properties of Nanorods and Melting Studies. <i>Nanoscience and Technology</i> , 2013, , 241-269.	1.5	0
45	Physical Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013, , .	1.5	17
46	Morphology oriented surfactant dependent CoO and reaction time dependent Co_3O_4 nanocrystals from single synthesis method and their optical and magnetic properties. <i>CrystEngComm</i> , 2013, 15, 8465.	2.6	71
47	Morphology Controlled Synthesis of Nanoporous Co_3O_4 Nanostructures and Their Charge Storage Characteristics in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10665-10672.	8.0	229
48	Introducing nanocrystalline CeO_2 as heterogeneous environmental friendly catalyst for the aerobic oxidation of para-xylene to terephthalic acid in water. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7091.	10.3	46
49	Development and Properties of Surfactant-Free Water-Dispersible $\text{Cu}_2\text{ZnSnS}_4$ Nanocrystals: A Material for Low-Cost Photovoltaics. <i>ChemPhysChem</i> , 2013, 14, 2793-2799.	2.1	37
50	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
51	Optical Properties of Semiconductor Nanorods. <i>Nanoscience and Technology</i> , 2013, , 7-55.	1.5	3
52	Transition Metal Ion-induced Anisotropic Architectures Using 4,4'-dicarboxy-2,2'-bipyridyl-silver Nanopetals. <i>Advanced Materials Letters</i> , 2013, 4, 252-260.	0.6	3
53	Physical properties of elongated inorganic nanoparticles. <i>Physics Reports</i> , 2011, 501, 75-221.	25.6	138
54	Metal Nanocrystals and Their Applications in Biomedical Systems. <i>Science of Advanced Materials</i> , 2011, 3, 169-195.	0.7	25

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55	Octapod-Shaped Colloidal Nanocrystals of Cadmium Chalcogenides via K^+ -Cation Exchange and Seeded Growth. <i>Nano Letters</i> , 2010, 10, 3770-3776.	9.1	171
56	Phosphine-Free Synthesis of p-Type Copper(I) Selenide Nanocrystals in Hot Coordinating Solvents. <i>Journal of the American Chemical Society</i> , 2010, 132, 8912-8914.	13.7	232
57	Fluorescent Asymmetrically Cobalt-Tipped CdSe@CdS Core@Shell Nanorod Heterostructures Exhibiting Room-Temperature Ferromagnetic Behavior. <i>Journal of the American Chemical Society</i> , 2009, 131, 12817-12828.	13.7	119
58	CdSe/CdS/ZnS Double Shell Nanorods with High Photoluminescence Efficiency and Their Exploitation As Biolabeling Probes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2948-2958.	13.7	247
59	Bioconjugation of Rod-Shaped Fluorescent Nanocrystals for Efficient Targeted Cell Labeling. <i>Langmuir</i> , 2009, 25, 12614-12622.	3.5	39
60	Single Step Synthesis and Properties of $\text{M}/\text{MFe}_2\text{O}_4$ and $\text{PVDF}/\text{M}/\text{MFe}_2\text{O}_4$ ($\text{M} = \text{Co}, \text{Ni}$) Magnetic Nanocomposites. <i>Science of Advanced Materials</i> , 2009, 1, 262-268.	0.7	7
61	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
62	Superparamagnetic Nanocrystalline ZnFe_2O_4 with a Very High Curie Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3955-3958.	0.9	19
63	Enhancement of the phase transformation temperature of Fe_2O_3 by Zn^{2+} -doping. <i>Journal of Materials Chemistry</i> , 2007, 17, 453-456.	6.7	27
64	Synthesis and magnetic properties of Mn doped ZnO nanowires. <i>Solid State Communications</i> , 2007, 142, 190-194.	1.9	135
65	Enhanced Permeability and Dielectric Constant of NiZn Ferrite Synthesized in Nanocrystalline Form by a Combustion Method. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1494-1499.	3.8	62
66	Experimental comparison of the structural, magnetic, electronic, and optical properties of ferromagnetic and paramagnetic polycrystalline $\text{Zn}_{1-x}\text{Co}_x\text{O}$ ($x=0,0.05,0.1$). <i>Physical Review B</i> , 2006, 74, .	3.2	58
67	Characterization of nanosized NiZn ferrite powders synthesized by an autocombustion method. <i>Materials Chemistry and Physics</i> , 2006, 100, 98-101.	4.0	60
68	Size-dependent magnetic properties of nanocrystalline yttrium iron garnet powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 301, 212-219.	2.3	71
69	Ferromagnetism induced by hydrogen in polycrystalline nonmagnetic $\text{Zn}_{0.95}\text{Co}_{0.05}\text{O}$. <i>Applied Physics Letters</i> , 2006, 89, 032508.	3.3	78
70	Electronic structure and ferromagnetism of polycrystalline $\text{Zn}_{1-x}\text{Co}_x\text{O}$ ($0 \leq x \leq 0.15$). <i>Solid State Communications</i> , 2005, 134, 665-669.	1.9	58
71	Direct Observation of Ni Metal Impurities in Lightly Doped Ferromagnetic Polycrystalline $(\text{ZnNi})\text{O}$. <i>Chemistry of Materials</i> , 2005, 17, 6507-6510.	6.7	36
72	Synthesis and Ferromagnetic Properties of Lightly Doped Nanocrystalline $\text{Zn}_{1-x}\text{Co}_x\text{O}$. <i>Chemistry of Materials</i> , 2004, 16, 1168-1169.	6.7	58