Soumitra Kar

List of Publications by Year
in descending order

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62 papers	3,052 citations	147801 31 h-index	155660 55 g-index
62 all docs	62 docs citations	62 times ranked	3889 citing authors

#	Article	IF	Citations
1	Morphology dependent photoinduced electron transfer from N,N-dimethylaniline to semiconductor cadmium sulfide. RSC Advances, 2014, 4, 35531.	3.6	12
2	The electronic transport properties of ternary Cd_{1â^'x}Zn_xS nanowire networks. Nanotechnology, 2009, 20, 445204.	2.6	12
3	Morphology controlled solvothermal synthesis of Cd(OH)2 and CdO micro/nanocrystals on Cd foil. Applied Surface Science, 2009, 255, 8091-8097.	6.1	28
4	Simple solvothermal route to synthesize S-doped ZnO nanonails and ZnS/ZnO core/shell nanorods. Chemical Physics Letters, 2009, 473, 102-107.	2.6	19
5	Rapid Synthesis of Core/Shell ZnS:Mn/Si Nanotetrapods by a Catalyst-Free Thermal Evaporation Route. ACS Applied Materials & Interfaces, 2009, 1, 1420-1426.	8.0	9
6	Solvothermal Synthesis of High-Aspect Ratio Alloy Semiconductor Nanowires: Cd_{1â^'x}Zn_xS, a Case Study. Journal of Physical Chemistry C, 2009, 113, 3617-3624.	3.1	66
7	Direct Room Temperature Synthesis of Valence State Engineered Ultra-Small Ceria Nanoparticles: Investigation on the Role of Ethylenediamine as a Capping Agent. Journal of Physical Chemistry C, 2009, 113, 4862-4867.	3.1	54
8	Vacancy-Type Defects and Their Evolution under Mn Substitution in Single Crystalline ZnO Nanocones Studied by Positron Annihilation. Journal of Physical Chemistry C, 2009, 113, 3419-3425.	3.1	27
9	Quantum Dot-Based OFF/ON Probe for Detection of Glutathione. Journal of Physical Chemistry C, 2009, 113, 9659-9663.	3.1	104
10	A simple strategy for quantum dot assisted selective detection of cadmium ions. Chemical Communications, 2008, , 3037.	4.1	96
11	ZnO nanocones: Solvothermal synthesis and photoluminescence properties. Materials Research Bulletin, 2008, 43, 2228-2238.	5.2	27
12	White Light Emission from Surface-Oxidized Manganese-Doped ZnS Nanorods. Journal of Physical Chemistry C, 2008, 112, 11144-11149.	3.1	44
13	ZnO Nanotube Arrays and Nanotube-Based Paint-Brush Structures: A Simple Methodology of Fabricating Hierarchical Nanostructures with Self-Assembled Junctions and Branches. Journal of Physical Chemistry C, 2008, 112, 8144-8146.	3.1	47
14	Direct synthesis of ZnO nanowire arrays on Zn foil by a simple thermal evaporation process. Nanotechnology, 2008, 19, 065606.	2.6	79
15	Direct Synthesis of Indium Nanotubes from Indium Metal Source. Crystal Growth and Design, 2008, 8, 344-346.	3.0	20
16	ZnS Nanowire Arrays: Synthesis, Optical and Field Emission Properties. Crystal Growth and Design, 2008, 8, 2171-2176.	3.0	54
17	Fabrication of High Aspect Ratio Coreâ^'Shell CdSâ^'Mn/ZnS Nanowires by a Two Step Solvothermal Process. Journal of Physical Chemistry C, 2008, 112, 4036-4041.	3.1	57
18	Fabrication of ZnS nanoparticles and nanorods with cubic and hexagonal crystal structures: a simple solvothermal approach. Nanotechnology, 2008, 19, 045710.	2.6	162

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19	Synthesis of Ag/Si Core/Shell Coaxial Nanowire Heterostructures by the Vaporâ^'Liquidâ^'Solid Technique. Journal of Physical Chemistry C, 2008, 112, 20138-20142.	3.1	25
20	Mn²⁺-induced substitutional structural changes in ZnS nanoparticles as observed from positron annihilation studies. Journal of Physics Condensed Matter, 2008, 20, 235226.	1.8	11
21	Positron annihilation spectroscopic studies of solvothermally synthesized ZnO nanobipyramids and nanoparticles. Journal of Chemical Physics, 2008, 128, 074702.	3.0	21
22	Direct Synthesis of ZnS Nanoribbons, Micro-Sheets and Tetrapods. Journal of Nanoscience and Nanotechnology, 2008, 8, 3222-3227.	0.9	1
23	Substitution-induced structural transformation in Mn-doped ZnS nanorods studied by positron annihilation spectroscopy. Nanotechnology, 2007, 18, 225606.	2.6	16
24	Multipod ZnO Nanoforms: Low Temperature Synthesis and Characterization. Journal of Nanoscience and Nanotechnology, 2007, 7, 689-695.	0.9	6
25	Solvothermal Synthesis of CdS Nanorods: Role of Basic Experimental Parameters. Journal of Nanoscience and Nanotechnology, 2007, 7, 677-688.	0.9	20
26	ZnO Doughnuts:Â Controlled Synthesis, Growth Mechanism, and Optical Properties. Crystal Growth and Design, 2007, 7, 136-141.	3.0	114
27	Role of purinergic receptors in platelet-nanoparticle interactions. Nanotoxicology, 2007, 1, 93-103.	3.0	17
28	Fabrication of Indium Oxide on Indium Foil through a Solvothermal Process. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 413-416.	0.6	0
29	Isolation and Characterization of ZnII and HgII Coordination Polymers with a Designed Azo-Aromatic Ligand: Identification of Micrometer- and Nanometer-Sized Particles. European Journal of Inorganic Chemistry, 2007, 2007, 835-845.	2.0	29
30	Effect of the precursors and solvents on the size, shape and crystal structure of manganese sulfide crystals in solvothermal synthesis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 142, 69-77.	3.5	39
31	Growth of different morphological features of micro and nanocrystalline manganese sulfide via solvothermal process. Journal of Crystal Growth, 2007, 299, 94-102.	1.5	27
32	Defect-related aspects of Mn-doped ZnS nanorods and morphological changes revealed from positron annihilation spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3889-3894.	0.8	5
33	Fabrication of GaN nanowires and nanoribbons by a catalyst assisted vaporâ€"liquidâ€"solid process. Materials Research Bulletin, 2007, 42, 428-436.	5.2	35
34	Synthesis of nano and micro crystals of Cd(OH)2 and CdO in the shape of hexagonal sheets and rods. Applied Surface Science, 2007, 253, 7578-7584.	6.1	38
35	Thioglycolic acid (TGA) assisted hydrothermal synthesis of SnS nanorods and nanosheets. Applied Surface Science, 2007, 253, 9259-9266.	6.1	71
36	Surfactant-Assisted Route to Synthesize Well-Aligned ZnO Nanorod Arrays on Solâ^'Gel-Derived ZnO Thin Films. Journal of Physical Chemistry B, 2006, 110, 14266-14272.	2.6	86

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37	Shape Selective Growth of CdS One-Dimensional Nanostructures by a Thermal Evaporation Process. Journal of Physical Chemistry B, 2006, 110, 4542-4547.	2.6	142
38	Simple Solvothermal Route To Synthesize ZnO Nanosheets, Nanonails, and Well-Aligned Nanorod Arrays. Journal of Physical Chemistry B, 2006, 110, 17848-17853.	2.6	159
39	One-Dimensional ZnO Nanostructure Arrays:Â Synthesis and Characterization. Journal of Physical Chemistry B, 2006, 110, 4605-4611.	2.6	189
40	Cadmium Sulfide Oneâ€Dimensional Nanostructures: Synthesis, Characterization and Application. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 289-312.	1.8	51
41	Positron annihilation studies of defects and interfaces in ZnS nanostructures of different crystalline and morphological features. Journal of Chemical Physics, 2006, 125, 164719.	3.0	21
42	Potential of cadmium sulphide nanorods as an optical microscopic probe to the folding state of cytochrome C. Biophysical Chemistry, 2006, 124, 52-61.	2.8	2
43	Simple thermal evaporation route to synthesize Zn and Cd metal nanowires. Chemical Physics Letters, 2006, 419, 174-178.	2.6	37
44	Synthesis, photoluminescence and field emission properties of In2O3 nanowires. Chemical Physics Letters, 2006, 422, 424-428.	2.6	29
45	Synthesis and optical properties of nanometer to micrometer wide hexagonal cones and columns of ZnO. Journal of Crystal Growth, 2006, 293, 438-446.	1.5	55
46	Synthesis and Optical Properties of CdS Nanoribbons.. ChemInform, 2006, 37, no.	0.0	0
47	Synthesis and Characterization of One-Dimensional MgO Nanostructures. Journal of Nanoscience and Nanotechnology, 2006, 6, 1447-1452.	0.9	17
48	Synthesis and Characterization of Zinc Sulfide Nanostructures. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 33-36.	0.6	17
49	Optical and field emission properties of ZnO nanorod arrays synthesized on zinc foils by the solvothermal route. Nanotechnology, 2006, 17, 1533-1540.	2.6	92
50	Morphology dependent field emission from In2O3nanostructures. Nanotechnology, 2006, 17, 3058-3062.	2.6	44
51	Optical and Magnetic Properties of Mnâ€Incorporated ZnS Nanorods. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 193-196.	0.6	4
52	Morphology and Size Dependent Optical Properties of CdS Nanostructures. Journal of Nanoscience and Nanotechnology, 2006, 6, 771-776.	0.9	11
53	Morphology and size dependent optical properties of CdS nanostructures. Journal of Nanoscience and Nanotechnology, 2006, 6, 771-6.	0.9	1
54	Solvothermal synthesis of Î±-MnS single crystals. Journal of Crystal Growth, 2005, 284, 129-135.	1.5	46

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55	Synthesis and optical properties of single and bicrystalline ZnS nanoribbons. Chemical Physics Letters, 2005, 414, 40-46.	2.6	47
56	Nanometre to micrometre wide ZnS nanoribbons. Nanotechnology, 2005, 16, 3074-3078.	2.6	16
57	Catalytic growth and photoluminescence properties of ZnS nanowires. Nanotechnology, 2005, 16, 737-740.	2.6	59
58	Finite-size effects on band structure of CdS nanocrystallites studied by positron annihilation. Physical Review B, 2005, 72, .	3.2	24
59	Synthesis and Optical Properties of CdS Nanoribbons. Journal of Physical Chemistry B, 2005, 109, 19134-19138.	2.6	68
60	Controlled Synthesis and Photoluminescence Properties of ZnS Nanowires and Nanoribbons. Journal of Physical Chemistry B, 2005, 109, 3298-3302.	2.6	181
61	Optical and Magnetic Properties of Manganese-Incorporated Zinc Sulfide Nanorods Synthesized by a Solvothermal Process. Journal of Physical Chemistry B, 2005, 109, 17526-17530.	2.6	178
62	Solvothermal synthesis of nanocrystalline FeS2 with different morphologies. Chemical Physics Letters, 2004, 398, 22-26.	2.6	84