

# Soumitra Kar

## List of Publications by Year in descending order

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62  
papers

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citations

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docs citations

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times ranked

3889  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Dimensional ZnO Nanostructure Arrays: Synthesis and Characterization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4605-4611.	2.6	189
2	Controlled Synthesis and Photoluminescence Properties of ZnS Nanowires and Nanoribbons. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3298-3302.	2.6	181
3	Optical and Magnetic Properties of Manganese-Incorporated Zinc Sulfide Nanorods Synthesized by a Solvothermal Process. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17526-17530.	2.6	178
4	Fabrication of ZnS nanoparticles and nanorods with cubic and hexagonal crystal structures: a simple solvothermal approach. <i>Nanotechnology</i> , 2008, 19, 045710.	2.6	162
5	Simple Solvothermal Route To Synthesize ZnO Nanosheets, Nanonails, and Well-Aligned Nanorod Arrays. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17848-17853.	2.6	159
6	Shape Selective Growth of CdS One-Dimensional Nanostructures by a Thermal Evaporation Process. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4542-4547.	2.6	142
7	ZnO Doughnuts: Controlled Synthesis, Growth Mechanism, and Optical Properties. <i>Crystal Growth and Design</i> , 2007, 7, 136-141.	3.0	114
8	Quantum Dot-Based OFF/ON Probe for Detection of Glutathione. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9659-9663.	3.1	104
9	A simple strategy for quantum dot assisted selective detection of cadmium ions. <i>Chemical Communications</i> , 2008, , 3037.	4.1	96
10	Optical and field emission properties of ZnO nanorod arrays synthesized on zinc foils by the solvothermal route. <i>Nanotechnology</i> , 2006, 17, 1533-1540.	2.6	92
11	Surfactant-Assisted Route to Synthesize Well-Aligned ZnO Nanorod Arrays on Sol-Gel-Derived ZnO Thin Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14266-14272.	2.6	86
12	Solvothermal synthesis of nanocrystalline FeS <sub>2</sub> with different morphologies. <i>Chemical Physics Letters</i> , 2004, 398, 22-26.	2.6	84
13	Direct synthesis of ZnO nanowire arrays on Zn foil by a simple thermal evaporation process. <i>Nanotechnology</i> , 2008, 19, 065606.	2.6	79
14	Thioglycolic acid (TGA) assisted hydrothermal synthesis of SnS nanorods and nanosheets. <i>Applied Surface Science</i> , 2007, 253, 9259-9266.	6.1	71
15	Synthesis and Optical Properties of CdS Nanoribbons. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19134-19138.	2.6	68
16	Solvothermal Synthesis of High-Aspect Ratio Alloy Semiconductor Nanowires: Cd <sub>1-x</sub> Zn <sub>x</sub> S, a Case Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3617-3624.	3.1	66
17	Catalytic growth and photoluminescence properties of ZnS nanowires. <i>Nanotechnology</i> , 2005, 16, 737-740.	2.6	59
18	Fabrication of High Aspect Ratio Core-Shell CdS/Mn/ZnS Nanowires by a Two Step Solvothermal Process. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4036-4041.	3.1	57

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19	Synthesis and optical properties of nanometer to micrometer wide hexagonal cones and columns of ZnO. <i>Journal of Crystal Growth</i> , 2006, 293, 438-446.	1.5	55
20	ZnS Nanowire Arrays: Synthesis, Optical and Field Emission Properties. <i>Crystal Growth and Design</i> , 2008, 8, 2171-2176.	3.0	54
21	Direct Room Temperature Synthesis of Valence State Engineered Ultra-Small Ceria Nanoparticles: Investigation on the Role of Ethylenediamine as a Capping Agent. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4862-4867.	3.1	54
22	Cadmium Sulfide One-Dimensional Nanostructures: Synthesis, Characterization and Application. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2006, 36, 289-312.	1.8	51
23	Synthesis and optical properties of single and bicrystalline ZnS nanoribbons. <i>Chemical Physics Letters</i> , 2005, 414, 40-46.	2.6	47
24	ZnO Nanotube Arrays and Nanotube-Based Paint-Brush Structures: A Simple Methodology of Fabricating Hierarchical Nanostructures with Self-Assembled Junctions and Branches. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8144-8146.	3.1	47
25	Solvothermal synthesis of $\text{In}_2\text{O}_3$ single crystals. <i>Journal of Crystal Growth</i> , 2005, 284, 129-135.	1.5	46
26	Morphology dependent field emission from $\text{In}_2\text{O}_3$ nanostructures. <i>Nanotechnology</i> , 2006, 17, 3058-3062.	2.6	44
27	White Light Emission from Surface-Oxidized Manganese-Doped ZnS Nanorods. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11144-11149.	3.1	44
28	Effect of the precursors and solvents on the size, shape and crystal structure of manganese sulfide crystals in solvothermal synthesis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 142, 69-77.	3.5	39
29	Synthesis of nano and micro crystals of $\text{Cd}(\text{OH})_2$ and $\text{CdO}$ in the shape of hexagonal sheets and rods. <i>Applied Surface Science</i> , 2007, 253, 7578-7584.	6.1	38
30	Simple thermal evaporation route to synthesize Zn and Cd metal nanowires. <i>Chemical Physics Letters</i> , 2006, 419, 174-178.	2.6	37
31	Fabrication of GaN nanowires and nanoribbons by a catalyst assisted vapor-liquid-solid process. <i>Materials Research Bulletin</i> , 2007, 42, 428-436.	5.2	35
32	Synthesis, photoluminescence and field emission properties of $\text{In}_2\text{O}_3$ nanowires. <i>Chemical Physics Letters</i> , 2006, 422, 424-428.	2.6	29
33	Isolation and Characterization of $\text{ZnII}$ and $\text{HgII}$ Coordination Polymers with a Designed Azo-Aromatic Ligand: Identification of Micrometer- and Nanometer-Sized Particles. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 835-845.	2.0	29
34	Morphology controlled solvothermal synthesis of $\text{Cd}(\text{OH})_2$ and $\text{CdO}$ micro/nanocrystals on Cd foil. <i>Applied Surface Science</i> , 2009, 255, 8091-8097.	6.1	28
35	Growth of different morphological features of micro and nanocrystalline manganese sulfide via solvothermal process. <i>Journal of Crystal Growth</i> , 2007, 299, 94-102.	1.5	27
36	ZnO nanocones: Solvothermal synthesis and photoluminescence properties. <i>Materials Research Bulletin</i> , 2008, 43, 2228-2238.	5.2	27

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37	Vacancy-Type Defects and Their Evolution under Mn Substitution in Single Crystalline ZnO Nanocones Studied by Positron Annihilation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3419-3425.	3.1	27
38	Synthesis of Ag/Si Core/Shell Coaxial Nanowire Heterostructures by the Vapor-Liquid-Solid Technique. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20138-20142.	3.1	25
39	Finite-size effects on band structure of CdS nanocrystallites studied by positron annihilation. <i>Physical Review B</i> , 2005, 72, .	3.2	24
40	Positron annihilation studies of defects and interfaces in ZnS nanostructures of different crystalline and morphological features. <i>Journal of Chemical Physics</i> , 2006, 125, 164719.	3.0	21
41	Positron annihilation spectroscopic studies of solvothermally synthesized ZnO nanobipyramids and nanoparticles. <i>Journal of Chemical Physics</i> , 2008, 128, 074702.	3.0	21
42	Solvothermal Synthesis of CdS Nanorods: Role of Basic Experimental Parameters. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 677-688.	0.9	20
43	Direct Synthesis of Indium Nanotubes from Indium Metal Source. <i>Crystal Growth and Design</i> , 2008, 8, 344-346.	3.0	20
44	Simple solvothermal route to synthesize S-doped ZnO nanonails and ZnS/ZnO core/shell nanorods. <i>Chemical Physics Letters</i> , 2009, 473, 102-107.	2.6	19
45	Synthesis and Characterization of One-Dimensional MgO Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1447-1452.	0.9	17
46	Synthesis and Characterization of Zinc Sulfide Nanostructures. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2006, 36, 33-36.	0.6	17
47	Role of purinergic receptors in platelet-nanoparticle interactions. <i>Nanotoxicology</i> , 2007, 1, 93-103.	3.0	17
48	Nanometre to micrometre wide ZnS nanoribbons. <i>Nanotechnology</i> , 2005, 16, 3074-3078.	2.6	16
49	Substitution-induced structural transformation in Mn-doped ZnS nanorods studied by positron annihilation spectroscopy. <i>Nanotechnology</i> , 2007, 18, 225606.	2.6	16
50	The electronic transport properties of ternary Cd <sub>1-x</sub> Zn <sub>x</sub> S nanowire networks. <i>Nanotechnology</i> , 2009, 20, 445204.	2.6	12
51	Morphology dependent photoinduced electron transfer from N,N-dimethylaniline to semiconductor cadmium sulfide. <i>RSC Advances</i> , 2014, 4, 35531.	3.6	12
52	Mn <sup>2+</sup> -induced substitutional structural changes in ZnS nanoparticles as observed from positron annihilation studies. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 235226.	1.8	11
53	Morphology and Size Dependent Optical Properties of CdS Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 771-776.	0.9	11
54	Rapid Synthesis of Core/Shell ZnS:Mn/Si Nanotetrapods by a Catalyst-Free Thermal Evaporation Route. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1420-1426.	8.0	9

#	ARTICLE	IF	CITATIONS
55	Multipod ZnO Nanoforms: Low Temperature Synthesis and Characterization. Journal of Nanoscience and Nanotechnology, 2007, 7, 689-695.	0.9	6
56	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
57	Optical and Magnetic Properties of Mn-incorporated ZnS Nanorods. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 193-196.	0.6	4
58	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
59	Direct Synthesis of ZnS Nanoribbons, Micro-Sheets and Tetrapods. Journal of Nanoscience and Nanotechnology, 2008, 8, 3222-3227.	0.9	1
60	Morphology and size dependent optical properties of CdS nanostructures. Journal of Nanoscience and Nanotechnology, 2006, 6, 771-6.	0.9	1
61	Synthesis and Optical Properties of CdS Nanoribbons.. ChemInform, 2006, 37, no.	0.0	0
62	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