

Joanna Kolny-Olesiak

List of Publications by Year in descending order

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papers

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citations

172386

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71
all docs

71
docs citations

71
times ranked

4357
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Application of Colloidal CuInS ₂ Semiconductor Nanocrystals. ACS Applied Materials & Interfaces, 2013, 5, 12221-12237.	4.0	407
2	Synthesis and Shape Control of CuInS ₂ Nanoparticles. Journal of the American Chemical Society, 2010, 132, 15976-15986.	6.6	273
3	Surface Treatment of CdSe Nanoparticles for Application in Hybrid Solar Cells: The Effect of Multiple Ligand Exchange with Pyridine. Journal of Physical Chemistry C, 2010, 114, 12784-12791.	1.5	194
4	Size and Shape Control of Colloidal Copper(I) Sulfide Nanorods. ACS Nano, 2012, 6, 5889-5896.	7.3	129
5	Self-Organization of Cadmium Sulfide and Gold Nanoparticles by Electrostatic Interaction. Nano Letters, 2002, 2, 361-364.	4.5	128
6	Photoinduced Charge Transfer and Relaxation of Persistent Charge Carriers in Polymer/Nanocrystal Composites for Applications in Hybrid Solar Cells. Advanced Functional Materials, 2009, 19, 3788-3795.	7.8	96
7	Physical Origin of the Impact of Different Nanocrystal Surface Modifications on the Performance of CdSe/P3HT Hybrid Solar Cells. Journal of Physical Chemistry C, 2011, 115, 14111-14122.	1.5	89
8	Pt/Sn Intermetallic, Core/Shell and Alloy Nanoparticles: Colloidal Synthesis and Structural Control. Chemistry of Materials, 2013, 25, 1400-1407.	3.2	88
9	The Growth of Colloidal Cadmium Telluride Nanocrystal Quantum Dots in the Presence of CdO Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10336-10341.	1.5	82
10	Manganese oxide phases and morphologies: A study on calcination temperature and atmospheric dependence. Beilstein Journal of Nanotechnology, 2015, 6, 47-59.	1.5	81
11	Spectral features above LO phonon frequency in resonant Raman scattering spectra of small CdSe nanoparticles. Journal of Applied Physics, 2009, 106, .	1.1	67
12	Investigations on the stability of thiol stabilized semiconductor nanoparticles. Physical Chemistry Chemical Physics, 2002, 4, 4747-4753.	1.3	66
13	Phonon Raman spectra of colloidal CdTe nanocrystals: effect of size, non-stoichiometry and ligand exchange. Nanoscale Research Letters, 2011, 6, 79.	3.1	64
14	Role of Copper Sulfide Seeds in the Growth Process of CuInS ₂ Nanorods and Networks. ACS Applied Materials & Interfaces, 2014, 6, 20535-20543.	4.0	58
15	Ligand-Capped Pt Nanocrystals as Oxide-Supported Catalysts: FTIR Spectroscopic Investigations of the Adsorption and Oxidation of CO. Angewandte Chemie - International Edition, 2007, 46, 2923-2926.	7.2	55
16	Colloidal Synthesis and Structural Control of PtSn Bimetallic Nanoparticles. Langmuir, 2011, 27, 11052-11061.	1.6	55
17	Raman Scattering Study of Cu ₃ Sn ₄ Colloidal Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 27554-27558.	1.5	48
18	<i>In situ</i> X-ray diffraction study on the formation of β -Sn in nanocrystalline Sn-based electrodes for lithium-ion batteries. CrystEngComm, 2015, 17, 8500-8504.	1.3	44

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19	Resonant Raman study of phonons in high-quality colloidal CdTe nanoparticles. Applied Physics Letters, 2009, 94, .	1.5	43
20	Synthesis of copper sulphide-based hybrid nanostructures and their application in shape control of colloidal semiconductor nanocrystals. CrystEngComm, 2014, 16, 9381-9390.	1.3	43
21	Investigations of solvents and various sulfur sources influence on the shape-controlled synthesis of CuInS ₂ nanocrystals. Journal of Nanoparticle Research, 2011, 13, 5815-5824.	0.8	42
22	Recent Developments in Colloidal Synthesis of CuInSe ₂ Nanoparticles. Chemistry - A European Journal, 2013, 19, 9746-9753.	1.7	39
23	The influence of pyridine ligand onto the structure and phonon spectra of CdSe nanocrystals. Journal of Applied Physics, 2011, 109, 084334.	1.1	36
24	Colloidally Prepared Pt Nanoparticles for Heterogeneous Gas-Phase Catalysis: Influence of Ligand Shell and Catalyst Loading on CO Oxidation Activity. ChemCatChem, 2010, 2, 198-205.	1.8	35
25	Investigation of the morphology and electrical characteristics of hybrid blends based on poly(3-hexylthiophene) and colloidal CuInS ₂ nanocrystals of different shapes. Organic Electronics, 2012, 13, 3154-3164.	1.4	34
26	Alloyed CuInS ₂ -ZnS nanorods: synthesis, structure and optical properties. CrystEngComm, 2015, 17, 5634-5643.	1.3	34
27	Colloidal Synthesis of Pt Nanoparticles: On the Formation and Stability of Nanowires. Langmuir, 2008, 24, 9011-9016.	1.6	31
28	Influence of particle size in hybrid solar cells composed of CdSe nanocrystals and poly(3-hexylthiophene). Journal of Applied Physics, 2011, 110, .	1.1	31
29	Optical Properties of CdTe Nanocrystal Quantum Dots, Grown in the Presence of Cd ⁰ Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10841-10847.	1.5	30
30	Multilayered Nanoheterostructures: Theory and Experiment. Journal of Physical Chemistry B, 2004, 108, 1578-1583.	1.2	28
31	Probing the structure of CuInS ₂ -ZnS core-shell and similar nanocrystals by Raman spectroscopy. Applied Surface Science, 2017, 395, 24-28.	3.1	28
32	Critical size for the $\hat{\Gamma}_2^-$ to $\hat{\Gamma}_4^-$ transformation in tin nanoparticles after lithium insertion and extraction. CrystEngComm, 2015, 17, 3695-3700.	1.3	27
33	Phonon Spectra of Small Colloidal II-VI Semiconductor Nanocrystals. International Journal of Spectroscopy, 2012, 2012, 1-6.	1.4	26
34	Synthesis and characterization of brightly photoluminescent CdTe nanocrystals. Surface Science, 2007, 601, 2667-2670.	0.8	25
35	Raman scattering in orthorhombic CuInS ₂ nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 195-199.	0.8	24
36	Catalyst-free synthesis and shape control of CdTe nanowires. Nano Research, 2011, 4, 824-835.	5.8	21

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37	Ligand removal from soluble CdTe nanocrystals evidenced by time-resolved photoluminescence spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 102004.	1.3	19
38	Synthesis, optical properties, and photochemical activity of zinc-indium-sulfide nanoplates. <i>RSC Advances</i> , 2015, 5, 89577-89585.	1.7	19
39	Surface-Modified Tin Nanoparticles and Their Electrochemical Performance in Lithium Ion Battery Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 3577-3589.	2.4	19
40	Effects of Particle Size on Strong Metal-Support Interactions Using Colloidal Surfactant-Free Pt Nanoparticles Supported on Fe ₃ O ₄ . <i>ACS Catalysis</i> , 2020, 10, 4136-4150.	5.5	19
41	Copper-assisted shape control in colloidal synthesis of indium oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	18
42	Synthesis and Shape Control of Copper Tin Sulphide Nanocrystals and Formation of Gold-Copper Tin Sulphide Hybrid Nanostructures. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014, 69, 446-450.	0.7	18
43	Charge transfer in blends of P3HT and colloidally prepared CuInS ₂ nanocrystals. <i>Thin Solid Films</i> , 2011, 519, 7374-7377.	0.8	17
44	Synthesis and electrochemical characterization of nano-sized Ag ₄ Sn particles as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 196, 597-602.	2.6	17
45	Synthesis of lead chalcogenide nanocrystals and study of charge transfer in blends of PbSe nanocrystals and poly(3-hexylthiophene). <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11706.	1.3	16
46	Size-Dependent Strain of Sn/SnO _x Core/Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 30238-30243.	1.5	15
47	Synthesis and electrochemical performance of surface-modified nano-sized core/shell tin particles for lithium ion batteries. <i>Nanotechnology</i> , 2014, 25, 355401.	1.3	15
48	Influence of Sn content on the hydrogenation of crotonaldehyde catalysed by colloidally prepared PtSn nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28186-28192.	1.3	15
49	Shape Control of CdTe Nanocrystals: Influence of the Solvent Composition and Ligand Effects. <i>Journal of Nanoparticles</i> , 2013, 2013, 1-7.	1.4	13
50	Recent Advances in the Colloidal Synthesis of Ternary Transition Metal Phosphides. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2019, 74, 709-719.	0.7	13
51	Impact of Organic Ligands on the Structure and Hydrogenation Performance of Colloidally Prepared Bimetallic PtSn Nanoparticles. <i>ChemCatChem</i> , 2013, 5, 1803-1810.	1.8	12
52	Size control and shape evolution of single-twinned platinum nanocrystals in a room temperature colloidal synthesis. <i>CrystEngComm</i> , 2014, 16, 9907-9914.	1.3	12
53	Mechanistic study on the activity of manganese oxide catalysts for oxygen reduction reaction in an aprotic electrolyte. <i>Electrochimica Acta</i> , 2015, 158, 383-389.	2.6	11
54	Photovoltaic response of hybrid solar cells with alloyed ZnS-CuInS ₂ nanorods. <i>Organic Electronics</i> , 2015, 21, 92-99.	1.4	11

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55	Shape control of CdTe nanocrystals synthesized in presence of in situ formed CdO particles. Journal of Nanoparticle Research, 2011, 13, 6963-6970.	0.8	10
56	Size-Dependent Lattice Distortion in $\mu\text{-Ag}_3\text{Sn}$ Alloy Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 14450-14454.	1.5	10
57	Detailed Characterization of the Surface and Growth Mechanism of Monodisperse Ni_3Sn_4 Nanoparticles. ACS Omega, 2018, 3, 16924-16933.	1.6	7
58	Control of crystallographic phases and surface characterization of intermetallic platinum tin nanoparticles. CrystEngComm, 2019, 21, 3363-3373.	1.3	7
59	A comparison of different nanoscopic silver species with respect to their capacity to bind mercury from the gas-phase using total reflection X-ray fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 170, 105903.	1.5	6
60	Selective Growth of Gold onto Copper Indium Sulfide Selenide Nanoparticles. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 398-404.	0.7	5
61	Size Control of Alloyed Cu-In-Zn-S Nanoflowers. Journal of Nanomaterials, 2015, 2015, 1-6.	1.5	3
62	Converting bimetallic M (M = Ni, Co, or Fe) -Sn nanoparticles into phosphides: a general strategy for the synthesis of ternary metal phosphide nanocrystals. Nanoscale Advances, 2019, 1, 2663-2673.	2.2	3
63	Study of the influence of the Cd:Se precursor ratio during the synthesis of CdSe nanocrystals on the performance of CdSe/P3HT hybrid solar cells. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2700-2708.	0.8	2
64	Morphology control of copper indium disulfide nanocrystals. Materials Research Society Symposia Proceedings, 2011, 1324, 45.	0.1	2
65	Synthesis of $\text{CuInS}_2\text{-ZnS}$ Alloyed Nanorods and Hybrid Nanostructures. Materials Research Society Symposia Proceedings, 2015, 1780, 1.	0.1	1
66	Synthesis of faceted Pt nanoparticles on SnO_2 as an oxygen reduction catalyst. CrystEngComm, 2017, 19, 3666-3673.	1.3	1
67	A new Approach for the Preparation of High Quality CdTe Nanocrystals and their Optical Characterization. ECS Transactions, 2006, 2, 79-86.	0.3	0
68	Colloidal Copper Sulphide Based Nanocrystals as Building Blocks for Self-assembled Nanostructures. Springer Series in Materials Science, 2015, , 177-193.	0.4	0
69	Phase Controlled Intermetallic Platinum tin Nanoparticles in Seeded Growth Synthesis for Catalytic Applications. , 2018, , .		0