

Alf Mews

List of Publications by Year in descending order

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81
papers

6,097
citations

136950

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66911

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85
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85
docs citations

85
times ranked

9646
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Growth of Gold Nanoparticles on Covellite Copper Sulfide Nanoplatelets for the Formation of Platelet-Satellite Hybrid Structures. <i>Chemistry of Materials</i> , 2022, 34, 1157-1166.	6.7	7
2	Encapsulation of Gold Nanoparticles into Redesignated Ferritin Nanocages for the Assembly of Binary Superlattices Composed of Fluorophores and Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10656-10668.	8.0	11
3	Role of Magnetic Coupling in Photoluminescence Kinetics of Mn ²⁺ -Doped ZnS Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18806-18815.	8.0	8
4	Superionic phase transition in individual silver selenide nanowires. <i>Nanoscale</i> , 2021, 13, 8017-8023.	5.6	4
5	Four-Fold Multi-Modal X-ray Microscopy Measurements of a Cu(In,Ga)Se ₂ Solar Cell. <i>Materials</i> , 2021, 14, 228.	2.9	12
6	Determination of the Wurtzite and Zincblende Fractions in II-VI Semiconductor Nanowires. <i>Chemistry of Materials</i> , 2021, 33, 1061-1069.	6.7	7
7	Impact of Ligands on Structural and Optical Properties of Ag ₂₉ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021, 143, 9405-9414.	13.7	60
8	Colloidal Manganese-Doped ZnS Nanoplatelets and Their Optical Properties. <i>Chemistry of Materials</i> , 2021, 33, 275-284.	6.7	36
9	Fabrication of SnS nanowalls <i>via</i> pulsed plasma-enhanced chemical vapor deposition using a metal-organic single-source precursor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10098-10110.	5.5	6
10	Fluorescence Quantum Yield and Single-Particle Emission of CdSe Dot/CdS Rod Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24338-24346.	3.1	10
11	Nanoscience and Nanotechnology at the Centennial of Universität Hamburg. <i>ACS Nano</i> , 2019, 13, 1-3.	14.6	1
12	Influence of Interface-Driven Strain on the Spectral Diffusion Properties of Core/Shell CdSe/CdS Dot/Rod Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5099-5109.	3.1	5
13	Ligand density on nanoparticles: A parameter with critical impact on nanomedicine. <i>Advanced Drug Delivery Reviews</i> , 2019, 143, 22-36.	13.7	124
14	Monitoring the death of single BaF ₃ cells under plasmonic photothermal heating induced by ultrasmall gold nanorods. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3582-3589.	5.8	3
15	Electrically tunable quantum emitters in an ultrathin graphene-hexagonal boron nitride van der Waals heterostructure. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	23
16	Nanocrystal Aerogels with Coupled or Decoupled Building Blocks. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7804-7810.	4.6	16
17	Fluorescent Metal-Semiconductor Hybrid Structures by Ultrasound-Assisted in Situ Growth of Gold Nanoparticles on Silica-Coated CdSe-Dot/CdS-Rod Nanocrystals. <i>Chemistry of Materials</i> , 2019, 31, 224-232.	6.7	6
18	Hexagonally Shaped Two-Dimensional Tin(II)sulfide Nanosheets: Growth Model and Controlled Structure Formation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5784-5795.	3.1	11

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19	Laser-induced charge separation in organic nanofibers: A joint experimental and theoretical investigation. <i>Organic Electronics</i> , 2018, 53, 20-25.	2.6	1
20	Specific binding and internalization: an investigation of fluorescent aptamer-gold nanoclusters and cells with fluorescence lifetime imaging microscopy. <i>Nanoscale</i> , 2018, 10, 20453-20461.	5.6	17
21	Fabrication of Ag ₂ S/CdS Heterostructured Nanosheets via Self-Limited Cation Exchange. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1295-1305.	2.8	4
22	Ultrathin and Highly Passivating Silica Shells for Luminescent and Water-Soluble CdSe/CdS Nanorods. <i>Langmuir</i> , 2017, 33, 5253-5260.	3.5	11
23	Size dependent targeted delivery of gold nanoparticles modified with the IL-6R-specific aptamer AIR-3A to IL-6R-carrying cells. <i>Nanoscale</i> , 2017, 9, 14486-14498.	5.6	19
24	Surface Charges on CdSe-Dot/CdS-Rod Nanocrystals: Measuring and Modeling the Diffusion of Exciton-Fluorescence Rates and Energies. <i>ACS Nano</i> , 2017, 11, 12185-12192.	14.6	10
25	Highly Efficient Fuel Cell Electrodes from Few-Layer Graphene Sheets and Electrochemically Deposited Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7476-7481.	3.1	15
26	Investigations of ion transport through nanoscale polymer membranes by fluorescence quenching of CdSe/CdS quantum dot/quantum rods. <i>Nanoscale</i> , 2016, 8, 7402-7407.	5.6	11
27	Solution-Grown Nanowire Devices for Sensitive and Fast Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12184-12192.	8.0	9
28	Synthesis of Carbon Nanowalls and Few-Layer Graphene Sheets on Transparent Conductive Substrates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 301-316.	2.8	15
29	Congratulations to Horst Weller. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1-2.	2.8	4
30	Insight into Strain Effects on Band Alignment Shifts, Carrier Localization and Recombination Kinetics in CdTe/CdS Core/Shell Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015, 137, 2073-2084.	13.7	81
31	Organic Molecular Films as Light-Emitting and Light-Confining Material in Rolled-Up AlInP Semiconductor Microtube Resonators. <i>ACS Photonics</i> , 2015, 2, 1532-1538.	6.6	7
32	A Universal Approach to Ultrasmall Magneto-Fluorescent Nanohybrids. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12468-12471.	13.8	26
33	Quantum-Confined Emission and Fluorescence Blinking of Individual Exciton Complexes in CdSe Nanowires. <i>Nano Letters</i> , 2014, 14, 6655-6659.	9.1	13
34	Fluorescence spectroscopy of individual semiconductor nanoparticles in different ethylene glycols. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10444-10455.	2.8	7
35	Determination of Electronic Energy Levels in Type-II CdTe-Core/CdSe-Shell and CdSe-Core/CdTe-Shell Nanocrystals by Cyclic Voltammetry and Optical Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16698-16708.	3.1	42
36	Controlled Electrodeposition of Bismuth Nanocatalysts for the Solution-“Liquid”-Solid Synthesis of CdSe Nanowires on Transparent Conductive Substrates. <i>Journal of the American Chemical Society</i> , 2013, 135, 18520-18527.	13.7	27

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37	Charge separation in CdSe/CdTe hetero-nanowires measured by electrostatic force microscopy. Applied Physics Letters, 2012, 100, .	3.3	9
38	Tip-Induced Charging of Free Standing Semiconductor Nanowires and Carbon Nanotubes. Israel Journal of Chemistry, 2012, 52, 1073-1080.	2.3	0
39	Vertically Oriented Carbon Nanostructures and Their Application Potential for Polymer-Based Solar Cells. Journal of Physical Chemistry C, 2012, 116, 412-419.	3.1	13
40	High-Resolution Photocurrent Mapping of Carbon Nanostructures. ACS Nano, 2012, 6, 5752-5756.	14.6	14
41	Photoluminescence of Individual Au/CdSe Nanocrystal Complexes with Variable Interparticle Distances. Journal of Physical Chemistry Letters, 2011, 2, 2466-2471.	4.6	48
42	Diameter Scaling of the Optical Band Gap in Individual CdSe Nanowires. ACS Nano, 2011, 5, 7920-7927.	14.6	36
43	Laser-Induced Charge Separation in CdSe Nanowires. Nano Letters, 2011, 11, 2672-2677.	9.1	57
44	Solution-“Liquid”-Solid Synthesis of Semiconductor Nanowires Using Clusters as Single-Source Precursors. Small, 2011, 7, 2464-2468.	10.0	17
45	Optical Imaging of CdSe Nanowires with Nanoscale Resolution. Angewandte Chemie - International Edition, 2011, 50, 11536-11538.	13.8	36
46	Fluorescence Modulation of Single CdSe Nanowires by Charge Injection through the Tip of an Atomic-Force Microscope. Physical Review Letters, 2011, 107, 137403.	7.8	14
47	Synthesis and Characterization of Colloidal Core-Shell Semiconductor Nanowires. European Journal of Inorganic Chemistry, 2010, 2010, 4325-4331.	2.0	35
48	Semiconductor Nanocrystals with Adjustable Hole Acceptors: Tuning the Fluorescence Intensity by Metal-Ion Binding. Angewandte Chemie - International Edition, 2010, 49, 6865-6868.	13.8	38
49	One-Dimensional Heterostructures of Single-Walled Carbon Nanotubes and CdSe Nanowires. Small, 2010, 6, 376-380.	10.0	17
50	Fluorescence Enhancement, Blinking Suppression, and Gray States of Individual Semiconductor Nanocrystals Close to Gold Nanoparticles. Nano Letters, 2010, 10, 4166-4174.	9.1	113
51	Optical Modes Excited by Evanescent-Wave-Coupled PbS Nanocrystals in Semiconductor Microtube Bottle Resonators. Nano Letters, 2010, 10, 627-631.	9.1	38
52	Controlled Synthesis of CdSe Nanowires by Solution-“Liquid”-Solid Method. Advanced Functional Materials, 2009, 19, 3650-3661.	14.9	90
53	X-ray investigation of CdSe nanowires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1752-1756.	1.8	17
54	Formation and Function of Bismuth Nanocatalysts for the Solution-“Liquid”-Solid Synthesis of CdSe Nanowires. Small, 2008, 4, 1698-1702.	10.0	64

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55	Surface Enhanced Raman Scattering of Carbon Nanotubes Decorated by Individual Fluorescent Gold Particles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 391-396.	3.1	59
56	Raman properties of gold nanoparticle-decorated individual carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 90, 173109.	3.3	31
57	Surface Chemistry of Semiconductor Nanocrystals. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 295-306.	2.8	6
58	Electronic Band Structure Mapping of Nanotube Transistors by Scanning Photocurrent Microscopy. <i>Small</i> , 2007, 3, 2038-2042.	10.0	40
59	A bright outlook for quantum dots. <i>Nature Photonics</i> , 2007, 1, 683-684.	31.4	14
60	Electronic Transport Properties of Individual Chemically Reduced Graphene Oxide Sheets. <i>Nano Letters</i> , 2007, 7, 3499-3503.	9.1	2,177
61	Synthesis and Characterization of Highly Luminescent CdSe Core CdS/Zn _{0.5} Cd _{0.5} /ZnS Multishell Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 7480-7488.	13.7	857
62	CdSe/ZnS Nanocrystals with Dye-Functionalized Polymer Ligands Containing Many Anchor Groups. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2437-2440.	13.8	79
63	Photocurrent Imaging of Charge Transport Barriers in Carbon Nanotube Devices. <i>Nano Letters</i> , 2005, 5, 507-510.	9.1	99
64	Photoelectronic transport imaging of individual semiconducting carbon nanotubes. <i>Applied Physics Letters</i> , 2004, 84, 2400-2402.	3.3	114
65	Electroluminescence from isolated CdSe/ZnS quantum dots in multilayered light-emitting diodes. <i>Journal of Applied Physics</i> , 2004, 96, 3206-3210.	2.5	144
66	Fluorescence Anisotropy and Crystal Structure of Individual Semiconductor Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7463-7471.	2.6	63
67	Raman Imaging and Spectroscopy of Heterogeneous Individual Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8742-8745.	2.6	46
68	Semiconductor Nanocrystals with Multifunctional Polymer Ligands. <i>Journal of the American Chemical Society</i> , 2003, 125, 320-321.	13.7	141
69	Fluorescence spectroscopy and transmission electron microscopy of the same isolated semiconductor nanocrystals. <i>Applied Physics Letters</i> , 2002, 81, 1116-1118.	3.3	33
70	Theoretical Study of Structure and Raman Spectra for Models of Carbon Nanotubes in Their Pristine and Oxidized Forms. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11973-11980.	2.5	34
71	Diameter-Dependent Combination Modes in Individual Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2002, 2, 823-826.	9.1	19
72	Combination of Confocal Raman Spectroscopy and Electron Microscopy on the Same Individual Bundles of Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2002, 2, 1209-1213.	9.1	7

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73	Fluorescence Decay Time of Single Semiconductor Nanocrystals. <i>Physical Review Letters</i> , 2002, 88, 137401.	7.8	416
74	Supramolecular Complexes from CdSe Nanocrystals and Organic Fluorophors. <i>Langmuir</i> , 2001, 17, 2861-2865.	3.5	235
75	Raman investigation of single oxidized carbon nanotubes. <i>Israel Journal of Chemistry</i> , 2001, 41, 15-22.	2.3	8
76	Dynamics of exciton localization in CdS/HgS quantum-dot quantum wells. <i>Physical Review B</i> , 1999, 59, 4973-4979.	3.2	29
77	Single-dot spectroscopy of CdS nanocrystals and CdS/HgS heterostructures. <i>Physical Review B</i> , 1999, 60, 1921-1927.	3.2	58
78	In Situ X-Ray Scattering Study on the Formation of CsPbBr ₃ Perovskite Nanocrystals. , 0, , .		0
79	Synthesis and Electrical Properties of Photoactive Two Dimensional SnS Nanosheets. , 0, , .		0
80	Synthesis and Electrical Properties of Photoactive Two Dimensional SnS Nanosheets. , 0, , .		0
81	Deposition of triazine-based graphitic carbon nitride <i>via</i> plasma-induced polymerisation of melamine. <i>Journal of Materials Chemistry A</i> , 0, , .	10.3	6