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List of Publications by Year
in descending order

81 papers	6,097 citations	136950 32 h-index	66911 78 g-index
85 all docs	85 docs citations	85 times ranked	9646 citing authors

#	Article	IF	Citations
1	Electronic Transport Properties of Individual Chemically Reduced Graphene Oxide Sheets. Nano Letters, 2007, 7, 3499-3503.	9.1	2,177
2	Synthesis and Characterization of Highly Luminescent CdSeâˆ'Core CdS/Zn0.5Cd0.5S/ZnS Multishell Nanocrystals. Journal of the American Chemical Society, 2005, 127, 7480-7488.	13.7	857
3	Fluorescence Decay Time of Single Semiconductor Nanocrystals. Physical Review Letters, 2002, 88, 137401.	7.8	416
4	Supramolecular Complexes from CdSe Nanocrystals and Organic Fluorophors. Langmuir, 2001, 17, 2861-2865.	3.5	235
5	Electroluminescence from isolated CdSeâˆ•ZnS quantum dots in multilayered light-emitting diodes. Journal of Applied Physics, 2004, 96, 3206-3210.	2.5	144
6	Semiconductor Nanocrystals with Multifunctional Polymer Ligands. Journal of the American Chemical Society, 2003, 125, 320-321.	13.7	141
7	Ligand density on nanoparticles: A parameter with critical impact on nanomedicine. Advanced Drug Delivery Reviews, 2019, 143, 22-36.	13.7	124
8	Photoelectronic transport imaging of individual semiconducting carbon nanotubes. Applied Physics Letters, 2004, 84, 2400-2402.	3.3	114
9	Fluorescence Enhancement, Blinking Suppression, and Gray States of Individual Semiconductor Nanocrystals Close to Gold Nanoparticles. Nano Letters, 2010, 10, 4166-4174.	9.1	113
10	Photocurrent Imaging of Charge Transport Barriers in Carbon Nanotube Devices. Nano Letters, 2005, 5, 507-510.	9.1	99
11	Controlled Synthesis of CdSe Nanowires by Solutionâ€"Liquidâ€"Solid Method. Advanced Functional Materials, 2009, 19, 3650-3661.	14.9	90
12	Insight into Strain Effects on Band Alignment Shifts, Carrier Localization and Recombination Kinetics in CdTe/CdS Core/Shell Quantum Dots. Journal of the American Chemical Society, 2015, 137, 2073-2084.	13.7	81
13	CdSe/ZnS Nanocrystals with Dye-Functionalized Polymer Ligands Containing Many Anchor Groups. Angewandte Chemie - International Edition, 2005, 44, 2437-2440.	13.8	79
14	Formation and Function of Bismuth Nanocatalysts for the Solutionâ€"Liquidâ€"Solid Synthesis of CdSe Nanowires. Small, 2008, 4, 1698-1702.	10.0	64
15	Fluorescence Anisotropy and Crystal Structure of Individual Semiconductor Nanocrystalsâ€. Journal of Physical Chemistry B, 2003, 107, 7463-7471.	2.6	63
16	Impact of Ligands on Structural and Optical Properties of Ag₂₉ Nanoclusters. Journal of the American Chemical Society, 2021, 143, 9405-9414.	13.7	60
17	Surface Enhanced Raman Scattering of Carbon Nanotubes Decorated by Individual Fluorescent Gold Particles. Journal of Physical Chemistry C, 2008, 112, 391-396.	3.1	59
18	Single-dot spectroscopy of CdS nanocrystals and CdS/HgS heterostructures. Physical Review B, 1999, 60, 1921-1927.	3.2	58

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19	Laser-Induced Charge Separation in CdSe Nanowires. Nano Letters, 2011, 11, 2672-2677.	9.1	57
20	Photoluminescence of Individual Au/CdSe Nanocrystal Complexes with Variable Interparticle Distances. Journal of Physical Chemistry Letters, 2011, 2, 2466-2471.	4.6	48
21	Raman Imaging and Spectroscopy of Heterogeneous Individual Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 8742-8745.	2.6	46
22	Determination of Electronic Energy Levels in Type-II CdTe-Core/CdSe-Shell and CdSe-Core/CdTe-Shell Nanocrystals by Cyclic Voltammetry and Optical Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 16698-16708.	3.1	42
23	Electronicâ€Bandâ€Structure Mapping of Nanotube Transistors by Scanning Photocurrent Microscopy. Small, 2007, 3, 2038-2042.	10.0	40
24	Semiconductor Nanocrystals with Adjustable Hole Acceptors: Tuning the Fluorescence Intensity by Metalâ€“Ion Binding. Angewandte Chemie - International Edition, 2010, 49, 6865-6868.	13.8	38
25	Optical Modes Excited by Evanescent-Wave-Coupled PbS Nanocrystals in Semiconductor Microtube Bottle Resonators. Nano Letters, 2010, 10, 627-631.	9.1	38
26	Diameter Scaling of the Optical Band Gap in Individual CdSe Nanowires. ACS Nano, 2011, 5, 7920-7927.	14.6	36
27	Optical Imaging of CdSe Nanowires with Nanoscale Resolution. Angewandte Chemie - International Edition, 2011, 50, 11536-11538.	13.8	36
28	Colloidal Manganese-Doped ZnS Nanoplatelets and Their Optical Properties. Chemistry of Materials, 2021, 33, 275-284.	6.7	36
29	Synthesis and Characterization of Colloidal Coreâ€“Shell Semiconductor Nanowires. European Journal of Inorganic Chemistry, 2010, 2010, 4325-4331.	2.0	35
30	Theoretical Study of Structure and Raman Spectra for Models of Carbon Nanotubes in Their Pristine and Oxidized Forms. Journal of Physical Chemistry A, 2002, 106, 11973-11980.	2.5	34
31	Fluorescence spectroscopy and transmission electron microscopy of the same isolated semiconductor nanocrystals. Applied Physics Letters, 2002, 81, 1116-1118.	3.3	33
32	Raman properties of gold nanoparticle-decorated individual carbon nanotubes. Applied Physics Letters, 2007, 90, 173109.	3.3	31
33	Dynamics of exciton localization in CdS/HgS quantum-dot quantum wells. Physical Review B, 1999, 59, 4973-4979.	3.2	29
34	Controlled Electrodeposition of Bismuth Nanocatalysts for the Solutionâ€“Liquidâ€“Solid Synthesis of CdSe Nanowires on Transparent Conductive Substrates. Journal of the American Chemical Society, 2013, 135, 18520-18527.	13.7	27
35	A Universal Approach to Ultrasmall Magnetoâ€Fluorescent Nanohybrids. Angewandte Chemie - International Edition, 2015, 54, 12468-12471.	13.8	26
36	Electrically tunable quantum emitters in an ultrathin grapheneâ€“hexagonal boron nitride van der Waals heterostructure. Applied Physics Letters, 2019, 114, .	3.3	23

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37	Diameter-Dependent Combination Modes in Individual Single-Walled Carbon Nanotubes. Nano Letters, 2002, 2, 823-826.	9.1	19
38	Size dependent targeted delivery of gold nanoparticles modified with the IL-6R-specific aptamer AIR-3A to IL-6R-carrying cells. Nanoscale, 2017, 9, 14486-14498.	5.6	19
39	Xâ€ray investigation of CdSe nanowires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1752-1756.	1.8	17
40	Oneâ€Dimensional Heterostructures of Singleâ€Walled Carbon Nanotubes and CdSe Nanowires. Small, 2010, 6, 376-380.	10.0	17
41	Solutionâ€“Liquidâ€“Solid Synthesis of Semiconductor Nanowires Using Clusters as Singleâ€Source Precursors. Small, 2011, 7, 2464-2468.	10.0	17
42	Specific binding and internalization: an investigation of fluorescent aptamer-gold nanoclusters and cells with fluorescence lifetime imaging microscopy. Nanoscale, 2018, 10, 20453-20461.	5.6	17
43	Nanocrystal Aerogels with Coupled or Decoupled Building Blocks. Journal of Physical Chemistry Letters, 2019, 10, 7804-7810.	4.6	16
44	Synthesis of Carbon Nanowalls and Few-Layer Graphene Sheets on Transparent Conductive Substrates. Zeitschrift Fur Physikalische Chemie, 2015, 229, 301-316.	2.8	15
45	Highly Efficient Fuel Cell Electrodes from Few-Layer Graphene Sheets and Electrochemically Deposited Palladium Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 7476-7481.	3.1	15
46	A bright outlook for quantum dots. Nature Photonics, 2007, 1, 683-684.	31.4	14
47	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
48	High-Resolution Photocurrent Mapping of Carbon Nanostructures. ACS Nano, 2012, 6, 5752-5756.	14.6	14
49	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
50	Quantum-Confined Emission and Fluorescence Blinking of Individual Exciton Complexes in CdSe Nanowires. Nano Letters, 2014, 14, 6655-6659.	9.1	13
51	Four-Fold Multi-Modal X-ray Microscopy Measurements of a Cu(In,Ga)Se2 Solar Cell. Materials, 2021, 14, 228.	2.9	12
52	Investigations of ion transport through nanoscale polymer membranes by fluorescence quenching of CdSe/CdS quantum dot/quantum rods. Nanoscale, 2016, 8, 7402-7407.	5.6	11
53	Ultrathin and Highly Passivating Silica Shells for Luminescent and Water-Soluble CdSe/CdS Nanorods. Langmuir, 2017, 33, 5253-5260.	3.5	11
54	Hexagonally Shaped Two-Dimensional Tin(II)sulfide Nanosheets: Growth Model and Controlled Structure Formation. Journal of Physical Chemistry C, 2018, 122, 5784-5795.	3.1	11

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55	Encapsulation of Gold Nanoparticles into Redesigned Ferritin Nanocages for the Assembly of Binary Superlattices Composed of Fluorophores and Gold Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 10656-10668.	8.0	11
56	Surface Charges on CdSe-Dot/CdS-Rod Nanocrystals: Measuring and Modeling the Diffusion of Exciton-Fluorescence Rates and Energies. ACS Nano, 2017, 11, 12185-12192.	14.6	10
57	Fluorescence Quantum Yield and Single-Particle Emission of CdSe Dot/CdS Rod Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 24338-24346.	3.1	10
58	Charge separation in CdSe/CdTe hetero-nanowires measured by electrostatic force microscopy. Applied Physics Letters, 2012, 100, .	3.3	9
59	Solution-Grown Nanowire Devices for Sensitive and Fast Photodetection. ACS Applied Materials & Interfaces, 2015, 7, 12184-12192.	8.0	9
60	Raman investigation of single oxidized carbon nanotubes. Israel Journal of Chemistry, 2001, 41, 15-22.	2.3	8
61	Role of Magnetic Coupling in Photoluminescence Kinetics of Mn²⁺-Doped ZnS Nanoplatelets. ACS Applied Materials & Interfaces, 2022, 14, 18806-18815.	8.0	8
62	Combination of Confocal Raman Spectroscopy and Electron Microscopy on the Same Individual Bundles of Single-Walled Carbon Nanotubes. Nano Letters, 2002, 2, 1209-1213.	9.1	7
63	Fluorescence spectroscopy of individual semiconductor nanoparticles in different ethylene glycols. Physical Chemistry Chemical Physics, 2014, 16, 10444-10455.	2.8	7
64	Organic Molecular Films as Light-Emitting and Light-Confining Material in Rolled-Up AlInP Semiconductor Microtube Resonators. ACS Photonics, 2015, 2, 1532-1538.	6.6	7
65	Determination of the Wurtzite and Zincblende Fractions in IIâ€“VI Semiconductor Nanowires. Chemistry of Materials, 2021, 33, 1061-1069.	6.7	7
66	Controlled Growth of Gold Nanoparticles on Covellite Copper Sulfide Nanoplatelets for the Formation of Plateâ€“Satellite Hybrid Structures. Chemistry of Materials, 2022, 34, 1157-1166.	6.7	7
67	Surface Chemistry of Semiconductor Nanocrystals. Zeitschrift Fur Physikalische Chemie, 2007, 221, 295-306.	2.8	6
68	Fabrication of SnS nanowalls <i>via</i> pulsed plasma-enhanced chemical vapor deposition using a metalâ€“organic single-source precursor. Journal of Materials Chemistry C, 2019, 7, 10098-10110.	5.5	6
69	Fluorescent Metalâ€“Semiconductor Hybrid Structures by Ultrasound-Assisted in Situ Growth of Gold Nanoparticles on Silica-Coated CdSe-Dot/CdS-Rod Nanocrystals. Chemistry of Materials, 2019, 31, 224-232.	6.7	6
70	Deposition of triazine-based graphitic carbon nitride <i>via</i> plasma-induced polymerisation of melamine. Journal of Materials Chemistry A, 0, , .	10.3	6
71	Influence of Interface-Driven Strain on the Spectral Diffusion Properties of Core/Shell CdSe/CdS Dot/Rod Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 5099-5109.	3.1	5
72	Congratulations to Horst Weller. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1-2.	2.8	4

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73	Fabrication of Ag₂S/CdS Heterostructured Nanosheets via Self-Limited Cation Exchange. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1295-1305.	2.8	4
74	Superionic phase transition in individual silver selenide nanowires. Nanoscale, 2021, 13, 8017-8023.	5.6	4
75	Monitoring the death of single BaF3 cells under plasmonic photothermal heating induced by ultrasmall gold nanorods. Journal of Materials Chemistry B, 2019, 7, 3582-3589.	5.8	3
76	Laser-induced charge separation in organic nanofibers: A joint experimental and theoretical investigation. Organic Electronics, 2018, 53, 20-25.	2.6	1
77	Nanoscience and Nanotechnology at the Centennial of UniversitÃt Hamburg. ACS Nano, 2019, 13, 1-3.	14.6	1
78	Tipâ€Induced Charging of Free Standing Semiconductor Nanowires and Carbon Nanotubes. Israel Journal of Chemistry, 2012, 52, 1073-1080.	2.3	0
79	In Situ X-Ray Scattering Study on the Formation of CsPbBr3 Perovskite Nanocrystals. , 0, , .		0
80	Synthesis and Electrical Properties of Photoactive Two Dimensional SnS Nanosheets. , 0, , .		0
81	Synthesis and Electrical Properties of Photoactive Two Dimensional SnS Nanosheets. , 0, , .		0