Brian A Korgel

List of Publications by Year
in descending order

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218 papers	22,934 citations	8732 75 h-index	8370 147 g-index
223 all docs	223 docs citations	223 times ranked	24353 citing authors

#	Article	IF	Citations
1	Two-Photon Excitation Spectroscopy of Silicon Quantum Dots and Ramifications for Bio-Imaging. ACS Nano, 2022, 16, 6023-6033.	7.3	10
2	Roomâ€Temperature Observation of Nearâ€Intrinsic Exciton Linewidth in Monolayer WS₂. Advanced Materials, 2022, 34, e2108721.	11.1	11
3	Roomâ€Temperature Observation of Nearâ€Intrinsic Exciton Linewidth in Monolayer WS₂ (Adv. Mater. 15/2022). Advanced Materials, 2022, 34, .	11.1	2
4	Broadband Forward Light Scattering by Architectural Design of Coreâ€“Shell Silicon Particles. Advanced Functional Materials, 2021, 31, 2100915.	7.8	11
5	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. Advanced Materials, 2021, 33, e2007236.	11.1	15
6	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). Advanced Materials, 2021, 33, 2170153.	11.1	1
7	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
8	Photonic Lift-off Process to Fabricate Ultrathin Flexible Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 44549-44555.	4.0	5
9	Compositional Fluctuations Mediated by Excess Tellurium in Bismuth Antimony Telluride Nanocomposites Yield High Thermoelectric Performance. Journal of Physical Chemistry C, 2021, 125, 20184-20194.	1.5	10
10	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. Nano Letters, 2021, 21, 973-979.	4.5	42
11	Synthetic Ligand Selection Affects Stoichiometry, Carrier Dynamics, and Trapping in CuInSe₂ Nanocrystals. ACS Nano, 2021, 15, 19588-19599.	7.3	4
12	Suppressing material loss in the visible and near-infrared range for functional nanophotonics using bandgap engineering. Nature Communications, 2020, 11, 5055.	5.8	29
13	Scalable colloidal synthesis of Bi₂Te_{2.7}Se_{0.3} plate-like particles give access to a high-performing n-type thermoelectric material for low temperature application. Nanoscale Advances, 2020, 2, 5699-5709.	2.2	13
14	Effect of Nonincorporative Cations on the Size and Shape of Indium Oxide Nanocrystals. Chemistry of Materials, 2020, 32, 9347-9354.	3.2	11
15	Transient Lattice Response upon Photoexcitation in CuInSe₂ Nanocrystals with Organic or Inorganic Surface Passivation. ACS Nano, 2020, 14, 13548-13556.	7.3	10
16	A â€œTips and Tricksâ€•Practical Guide to the Synthesis of Metal Halide Perovskite Nanocrystals. Chemistry of Materials, 2020, 32, 5410-5423.	3.2	127
17	Synthesis of TlBr and Tl 2 AgBr 3 Nanocrystals. ChemNanoMat, 2020, 6, 790-796.	1.5	0
18	Enhanced Coloration Efficiency of Electrochromic Tungsten Oxide Nanorods by Site Selective Occupation of Sodium Ions. Nano Letters, 2020, 20, 2072-2079.	4.5	55

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19	Spectrally tunable infrared plasmonic F,Sn:In2O3 nanocrystal cubes. Journal of Chemical Physics, 2020, 152, 014709.	1.2	33
20	Addition of Monovalent Silver Cations to CH₃NH₃PbBr₃ Produces Crystallographically Oriented Perovskite Thin Films. ACS Applied Energy Materials, 2019, 2, 6087-6096.	2.5	10
21	Enhanced Open-Circuit Voltage of Wide-Bandgap Perovskite Photovoltaics by Using Alloyed (FA_{1â€“x}Cs_x)Pb(I_{1â€“x}Br_x)₃ Quantum Dots. ACS Energy Letters, 2019, 4, 1954-1960.	3.4	73
22	CuGaSe2 and CuInxGa1â€“xSe2 Nanocrystals with Sphalerite or Wurtzite Phase for Optoelectronic Applications. ACS Applied Nano Materials, 2019, 2, 4673-4680.	2.4	8
23	Thermal Stability of the Black Perovskite Phase in Cesium Lead Iodide Nanocrystals Under Humid Conditions. Chemistry of Materials, 2019, 31, 9750-9758.	3.2	29
24	Surface Science and Colloidal Stability of Double-Perovskite Cs₂AgBiBr₆ Nanocrystals and Their Superlattices. Chemistry of Materials, 2019, 31, 7962-7969.	3.2	57
25	Development of wide bandgap perovskites for next-generation low-cost CdTe tandem solar cells. Chemical Engineering Science, 2019, 199, 388-397.	1.9	28
26	Thermal Phase Transitions in Superlattice Assemblies of Cuboidal CH₃NH₃PbI₃ Nanocrystals Followed by Grazing Incidence X-ray Scattering. Journal of Physical Chemistry C, 2019, 123, 17555-17565.	1.5	22
27	An Allâ€inorganic Colloidal Nanocrystal Flexible Polarizer. Angewandte Chemie - International Edition, 2019, 58, 8730-8735.	7.2	39
28	All-optical reconfigurable chiral meta-molecules. Materials Today, 2019, 25, 10-20.	8.3	52
29	Pervasive Cation Vacancies and Antisite Defects in Copper Indium Diselenide (CuInSe₂) Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 9544-9551.	1.5	26
30	An Electrifying Choice for the 2019 Chemistry Nobel Prize: Goodenough, Whittingham, and Yoshino. Chemistry of Materials, 2019, 31, 8577-8581.	3.2	31
31	Mechanical properties of hydrogenated amorphous silicon (a-Si:H) particles. Journal of Applied Physics, 2019, 126, 204303.	1.1	6
32	Optical nanomanipulation on solid substrates via optothermally-gated photon nudging. Nature Communications, 2019, 10, 5672.	5.8	39
33	Bismuth Enhances the Stability of CH₃NH₃PbI₃ (MAPI) Perovskite under High Humidity. Journal of Physical Chemistry C, 2019, 123, 963-970.	1.5	20
34	Deliquescent Chromism of Nickel(II) Iodide Thin Films. Langmuir, 2019, 35, 2146-2152.	1.6	5
35	Predictive Modeling of CuInSe₂ Nanocrystal Photovoltaics: The Importance of Band Alignment and Carrier Diffusion. ACS Applied Energy Materials, 2019, 2, 1494-1504.	2.5	17
36	Uniform Selenization of Crack-Free Films of Cu(In,Ga)Se₂ Nanocrystals. ACS Applied Energy Materials, 2019, 2, 736-742.	2.5	8

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37	Tunable Resonance Coupling in Single Si Nanoparticleâ€“Monolayer WS₂ Structures. ACS Applied Materials & Interfaces, 2018, 10, 16690-16697.	4.0	82
38	Herausforderungen bei der Synthese siliciumbasierter dielektrischer Metamaterialien. Angewandte Chemie, 2018, 130, 4568-4589.	1.6	0
39	Measurement of Twoâ€Photon Absorption of Silicon Nanocrystals in Colloidal Suspension for Bioâ€Imaging Applications. Physica Status Solidi (B): Basic Research, 2018, 255, 1700501.	0.7	12
40	Opto-thermoelectric nanotweezers. Nature Photonics, 2018, 12, 195-201.	15.6	216
41	Siliconâ€Based Dielectric Metamaterials: Focus on the Current Synthetic Challenges. Angewandte Chemie - International Edition, 2018, 57, 4478-4498.	7.2	39
42	Facile Exchange of Tightly Bonded L-Type Oleylamine and Diphenylphosphine Ligands on Copper Indium Diselenide Nanocrystals Mediated by Molecular Iodine. Chemistry of Materials, 2018, 30, 8359-8367.	3.2	20
43	In Situ Transmission Electron Microsopy of Oxide Shell-Induced Pore Formation in (De)lithiated Silicon Nanowires. ACS Energy Letters, 2018, 3, 2829-2834.	8.8	25
44	Flexible CuInSe₂ Nanocrystal Solar Cells on Paper. ACS Energy Letters, 2017, 2, 574-581.	8.8	54
45	Bright Long-Lived Luminescence of Silicon Nanocrystals Sensitized by Two-Photon Absorbing Antenna. CheM, 2017, 2, 550-560.	5.8	25
46	A simplified synthesis of silica Colloids with tunable hydrophobicity. Colloid and Polymer Science, 2017, 295, 925-932.	1.0	5
47	Colloidal Siliconâ€“Germanium Nanorod Heterostructures. Chemistry of Materials, 2017, 29, 9786-9792.	3.2	14
48	Silicon Nanocrystal Superlattice Nucleation and Growth. Langmuir, 2017, 33, 13068-13076.	1.6	7
49	Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 23240-23248.	1.5	104
50	Bubble Assemblies of Nanocrystals: Superlattices without a Substrate. Journal of Physical Chemistry Letters, 2017, 8, 4865-4871.	2.1	4
51	Efficient Carrier Multiplication in Colloidal Silicon Nanorods. Nano Letters, 2017, 17, 5580-5586.	4.5	32
52	Highly Fluorescent Silicon Nanocrystals Stabilized in Water Using Quatsomes. Langmuir, 2017, 33, 14366-14377.	1.6	15
53	Size Dependent Pore Formation in Germanium Nanowires Undergoing Reversible Delithiation Observed by In Situ TEM. Journal of Physical Chemistry C, 2016, 120, 28825-28831.	1.5	9
54	Light-Harvesting Antennae Based on Silicon Nanocrystals. Topics in Current Chemistry, 2016, 374, 53.	3.0	12

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55	Orientationally Ordered Silicon Nanocrystal Cuboctahedra in Superlattices. Nano Letters, 2016, 16, 7814-7821.	4.5	33
56	Cooling Dodecanethiol-Capped 2 nm Diameter Gold Nanocrystal Superlattices below Room Temperature Induces a Reversible Orderâ€“Disorder Structure Transition. Journal of Physical Chemistry C, 2016, 120, 27682-27687.	1.5	13
57	Plastic Microgroove Solar Cells Using CuInSe₂ Nanocrystals. ACS Energy Letters, 2016, 1, 1021-1027.	8.8	13
58	Simultaneous Tunable Selection and Self-Assembly of Si Nanowires from Heterogeneous Feedstock. ACS Nano, 2016, 10, 4384-4394.	7.3	25
59	Germanium as a Sodium Ion Battery Material: In Situ TEM Reveals Fast Sodiation Kinetics with High Capacity. Chemistry of Materials, 2016, 28, 1236-1242.	3.2	134
60	Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. Chemistry of Materials, 2015, 27, 4390-4397.	3.2	25
61	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting?. Faraday Discussions, 2015, 181, 181-192.	1.6	34
62	In Situ TEM Observations of Sn-Containing Silicon Nanowires Undergoing Reversible Pore Formation Due to Fast Lithiation/Delithiation Kinetics. Journal of Physical Chemistry C, 2015, 119, 21889-21895.	1.5	38
63	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	7.3	1,005
64	Low Temperature Colloidal Synthesis of Silicon Nanorods from Isotetrasilane, Neopentasilane, and Cyclohexasilane. Chemistry of Materials, 2015, 27, 6053-6058.	3.2	26
65	Role of Halides in the Ordered Structure Transitions of Heated Gold Nanocrystal Superlattices. Langmuir, 2015, 31, 6924-6932.	1.6	22
66	The Role of Ligand Packing Frustration in Body-Centered Cubic (bcc) Superlattices of Colloidal Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 2406-2412.	2.1	79
67	Synthesis and Ligand Exchange of Thiol-Capped Silicon Nanocrystals. Langmuir, 2015, 31, 6886-6893.	1.6	53
68	Controlled Styrene Monolayer Capping of Silicon Nanocrystals by Room Temperature Hydrosilylation. Langmuir, 2015, 31, 6532-6537.	1.6	21
69	Light-harvesting antennae based on photoactive silicon nanocrystals functionalized with porphyrin chromophores. Faraday Discussions, 2015, 185, 481-495.	1.6	27
70	Interface Passivation and Trap Reduction via a Solution-Based Method for Near-Zero Hysteresis Nanowire Field-Effect Transistors. ACS Applied Materials & Interfaces, 2015, 7, 22115-22120.	4.0	6
71	Photonic curing of ligand-capped CuInSe<inf>2</inf> nanocrystal films. , 2014, , .		3
72	Creating polymer hydrogel microfibres with internal alignment via electrical and mechanical stretching. Biomaterials, 2014, 35, 3243-3251.	5.7	83

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73	Lithium Ion Battery Peformance of Silicon Nanowires with Carbon Skin. ACS Nano, 2014, 8, 915-922.	7.3	185
74	Multiexciton Solar Cells of CuInSe₂ Nanocrystals. Journal of Physical Chemistry Letters, 2014, 5, 304-309.	2.1	83
75	Efficient Carrier Multiplication in Colloidal CuInSe₂ Nanocrystals. Journal of Physical Chemistry Letters, 2014, 5, 3169-3174.	2.1	37
76	Enhancing the lithiation rate of silicon nanowires by the inclusion of tin. RSC Advances, 2014, 4, 42022-42028.	1.7	20
77	Nanomaterials Developments for Higher-Performance Lithium Ion Batteries. Journal of Physical Chemistry Letters, 2014, 5, 749-750.	2.1	27
78	Silicon Nanocrystals Functionalized with Pyrene Units: Efficient Light-Harvesting Antennae with Bright Near-Infrared Emission. Journal of Physical Chemistry Letters, 2014, 5, 3325-3329.	2.1	54
79	A Singleâ€Step Reaction for Silicon and Germanium Nanorods. Chemistry - A European Journal, 2014, 20, 5874-5879.	1.7	29
80	In Vivo Whole Animal Fluorescence Imaging of a Microparticle-Based Oral Vaccine Containing (CuInSexS2â€“x)/ZnS Core/Shell Quantum Dots. Nano Letters, 2013, 13, 4294-4298.	4.5	98
81	Influence of Composition on the Performance of Sintered Cu(In,Ga)Se₂ Nanocrystal Thinâ€Film Photovoltaic Devices. ChemSusChem, 2013, 6, 481-486.	3.6	33
82	High capacity lithium ion battery anodes of silicon and germanium. Current Opinion in Chemical Engineering, 2013, 2, 286-293.	3.8	72
83	Ordered Structure Rearrangements in Heated Gold Nanocrystal Superlattices. Nano Letters, 2013, 13, 5710-5714.	4.5	52
84	Precision synthesis of silicon nanowires with crystalline core and amorphous shell. Dalton Transactions, 2013, 42, 12675.	1.6	13
85	Copper Indium Gallium Selenide (CIGS) Photovoltaic Devices Made Using Multistep Selenization of Nanocrystal Films. ACS Applied Materials & Interfaces, 2013, 5, 9134-9140.	4.0	52
86	Silicon Nanocrystal Superlattices. ChemPhysChem, 2013, 14, 84-87.	1.0	25
87	Nanocrystal photovoltaics: a review of recent progress. Current Opinion in Chemical Engineering, 2013, 2, 160-167.	3.8	74
88	In Situ TEM of Two-Phase Lithiation of Amorphous Silicon Nanospheres. Nano Letters, 2013, 13, 758-764.	4.5	680
89	Monodisperse silicon nanocavities and photonic crystals with magnetic response in the optical region. Nature Communications, 2013, 4, 1904.	5.8	157
90	Enhanced Nickel-Seeded Synthesis of Germanium Nanowires. Chemistry of Materials, 2013, 25, 2172-2177.	3.2	23

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91	Structureâ€“Properties Correlation in Si Nanoparticles by Total Scattering and Computer Simulations. Chemistry of Materials, 2013, 25, 2365-2371.	3.2	23
92	CuInSe₂ Quantum Dot Solar Cells with High Open-Circuit Voltage. Journal of Physical Chemistry Letters, 2013, 4, 2030-2034.	2.1	137
93	Colloidal Luminescent Silicon Nanorods. Nano Letters, 2013, 13, 3101-3105.	4.5	57
94	Room Temperature Hydrosilylation of Silicon Nanocrystals with Bifunctional Terminal Alkenes. Langmuir, 2013, 29, 1533-1540.	1.6	87
95	Self-Assembly and Thermal Stability of Binary Superlattices of Gold and Silicon Nanocrystals. Journal of Physical Chemistry Letters, 2013, 4, 3677-3682.	2.1	33
96	Temperature-dependent charge transport in copper indium diselenide nanocrystal films. Journal of Applied Physics, 2012, 111, .	1.1	8
97	Raman Spectroscopy of Oxide-Embedded and Ligand-Stabilized Silicon Nanocrystals. Journal of Physical Chemistry Letters, 2012, 3, 1089-1093.	2.1	103
98	Stacking of Hexagonal Nanocrystal Layers during Langmuirâ€“Blodgett Deposition. Journal of Physical Chemistry B, 2012, 116, 6017-6026.	1.2	38
99	Optical Properties of Silicon and Germanium Nanowire Fabric. Journal of Physical Chemistry C, 2012, 116, 22486-22491.	1.5	23
100	Solution-Grown Germanium Nanowire Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4658-4664.	4.0	181
101	Graphene-Supported High-Resolution TEM and STEM Imaging of Silicon Nanocrystals and their Capping Ligands. Journal of Physical Chemistry C, 2012, 116, 22463-22468.	1.5	78
102	Synthesis of Ligand-Stabilized Silicon Nanocrystals with Size-Dependent Photoluminescence Spanning Visible to Near-Infrared Wavelengths. Chemistry of Materials, 2012, 24, 393-401.	3.2	326
103	Pyrite Nanocrystal Solar Cells: Promising, or Foolâ€™s Gold?. Journal of Physical Chemistry Letters, 2012, 3, 2352-2356.	2.1	114
104	Chloroform-Enhanced Incorporation of Hydrophobic Gold Nanocrystals into Dioleoylphosphatidylcholine (DOPC) Vesicle Membranes. Langmuir, 2012, 28, 12971-12981.	1.6	28
105	Tin-Seeded Silicon Nanowires for High Capacity Li-Ion Batteries. Chemistry of Materials, 2012, 24, 3738-3745.	3.2	106
106	Germanium Nanorod Extinction Spectra: Discrete Dipole Approximation Calculations and Experiment. Journal of Physical Chemistry C, 2012, 116, 22625-22630.	1.5	8
107	Comparison of the Photovoltaic Response of Oleylamine and Inorganic Ligand-Capped CuInSe₂ Nanocrystals. ACS Applied Materials & Interfaces, 2012, 4, 2757-2761.	4.0	59
108	Copper-Coated Amorphous Silicon Particles as an Anode Material for Lithium-Ion Batteries. Chemistry of Materials, 2012, 24, 1306-1315.	3.2	144

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109	Electrochemical Lithiation of Graphene-Supported Silicon and Germanium for Rechargeable Batteries. Journal of Physical Chemistry C, 2012, 116, 11917-11923.	1.5	87
110	Nanocrystals for Electronics. Annual Review of Chemical and Biomolecular Engineering, 2012, 3, 287-311.	3.3	67
111	Influences of Gold, Binder and Electrolyte on Silicon Nanowire Performance in Li-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 18079-18086.	1.5	79
112	Colloidal CIGS and CZTS nanocrystals: A precursor route to printed photovoltaics. Journal of Solid State Chemistry, 2012, 189, 2-12.	1.4	124
113	Reversible Solvent Vapor-Mediated Phase Changes in Nanocrystal Superlattices. ACS Nano, 2011, 5, 2419-2424.	7.3	58
114	Rapid SFLS Synthesis of Si Nanowires Using Trisilane with In situ Alkyl-Amine Passivation. Chemistry of Materials, 2011, 23, 2697-2699.	3.2	32
115	Silicon Nanowire Fabric as a Lithium Ion Battery Electrode Material. Journal of the American Chemical Society, 2011, 133, 20914-20921.	6.6	251
116	Copper Selenide Nanocrystals for Photothermal Therapy. Nano Letters, 2011, 11, 2560-2566.	4.5	1,264
117	Colloidal Synthesis of Germanium Nanorods. Chemistry of Materials, 2011, 23, 1964-1970.	3.2	48
118	Melting and Sintering of a Body-Centered Cubic Superlattice of PbSe Nanocrystals Followed by Small Angle X-ray Scattering. Journal of Physical Chemistry C, 2011, 115, 6397-6404.	1.5	59
119	Electrostatic charging and manipulation of semiconductor nanowires. Journal of Materials Research, 2011, 26, 2305-2310.	1.2	5
120	Solution-Grown Silicon Nanowires for Lithium-Ion Battery Anodes. ACS Nano, 2010, 4, 1443-1450.	7.3	492
121	Alkyl Passivation and Amphiphilic Polymer Coating of Silicon Nanocrystals for Diagnostic Imaging. Small, 2010, 6, 2026-2034.	5.2	136
122	Mapping Spatial Heterogeneity in Cu(In_{1â^'x}Ga_x)Se₂ Nanocrystalâ€Based Photovoltaics with Scanning Photocurrent and Fluorescence Microscopy. Small, 2010, 6, 2832-2836.	5.2	22
123	Gold Seed Removal from the Tips of Silicon Nanorods. Nano Letters, 2010, 10, 176-180.	4.5	18
124	Hydrophobic Gold Nanoparticle Self-Assembly with Phosphatidylcholine Lipid: Membrane-Loaded and Janus Vesicles. Nano Letters, 2010, 10, 3733-3739.	4.5	200
125	GISAXS Characterization of Order in Hexagonal Monolayers of FePt Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 14427-14432.	1.5	50
126	Spray-deposited CuInSe2 nanocrystal photovoltaics. Energy and Environmental Science, 2010, 3, 1600.	15.6	128

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127	PEGylation of Carboxylic Acid-Functionalized Germanium Nanowires. Langmuir, 2010, 26, 14241-14246.	1.6	18
128	Hydrogenated Amorphous Silicon (a-Si:H) Colloids. Chemistry of Materials, 2010, 22, 6378-6383.	3.2	63
129	Corrosion Resistance of Thiol- and Alkene-Passivated Germanium Nanowires. Chemistry of Materials, 2010, 22, 3698-3703.	3.2	50
130	Optical Properties of Solvent-Dispersed and Polymer-Embedded Germanium Nanowires. Journal of Physical Chemistry C, 2010, 114, 20983-20989.	1.5	12
131	Flexible Germanium Nanowires: Ideal Strength, Room Temperature Plasticity, and Bendable Semiconductor Fabric. ACS Nano, 2010, 4, 2356-2362.	7.3	102
132	Thickness-limited performance of CuInSe_2 nanocrystal photovoltaic devices. Optics Express, 2010, 18, A411.	1.7	74
133	Antiferromagnetic Single Domain L12 FePt3 Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 2512-2518.	1.5	22
134	Semiconductor nanowires: A chemical engineering perspective. AICHE Journal, 2009, 55, 842-848.	1.8	15
135	Rotational and translational diffusivities of germanium nanowires. Rheologica Acta, 2009, 48, 589-596.	1.1	18
136	Limitations on the Optical Tunability of Small Diameter Gold Nanoshells. Langmuir, 2009, 25, 11777-11785.	1.6	77
137	Self-Assembled Simple Hexagonal AB₂ Binary Nanocrystal Superlattices: SEM, GISAXS, and Defects. Journal of the American Chemical Society, 2009, 131, 3281-3290.	6.6	143
138	Wurtziteâ^'Chalcopyrite Polytypism in CuInS₂ Nanodisks. Chemistry of Materials, 2009, 21, 1962-1966.	3.2	129
139	Synthesis of Cu₂ZnSnS₄ Nanocrystals for Use in Low-Cost Photovoltaics. Journal of the American Chemical Society, 2009, 131, 12554-12555.	6.6	639
140	Colloidal Silicon Nanorod Synthesis. Nano Letters, 2009, 9, 3042-3047.	4.5	49
141	Seeded germanium nanowire synthesis in solution. Journal of Materials Chemistry, 2009, 19, 996.	6.7	66
142	Multifunctional particles: Magnetic nanocrystals and gold nanorods coated with fluorescent dye-doped silica shells. Journal of Solid State Chemistry, 2008, 181, 1590-1599.	1.4	61
143	Youngâ€™s Modulus and Size-Dependent Mechanical Quality Factor of Nanoelectromechanical Germanium Nanowire Resonators. Journal of Physical Chemistry C, 2008, 112, 10725-10729.	1.5	48
144	Synthesis of CuInS₂, CuInSe₂, and Cu(In_xGa_{1-x})Se₂ (CIGS) Nanocrystal â€œInksâ€•for Printable Photovoltaics. Journal of the American Chemical Society, 2008, 130, 16770-16777.	6.6	887

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145	Synthesis of High Aspect Ratio Quantum-Size CdS Nanorods and Their Surface-Dependent Photoluminescence. Langmuir, 2008, 24, 9043-9049.	1.6	120
146	The Importance of the CTAB Surfactant on the Colloidal Seed-Mediated Synthesis of Gold Nanorods. Langmuir, 2008, 24, 644-649.	1.6	382
147	Solutionâ^'Liquidâ^'Solid (SLS) Growth of Silicon Nanowires. Journal of the American Chemical Society, 2008, 130, 5436-5437.	6.6	180
148	Importance of Solvent-Mediated Phenylsilane Decompositon Kinetics for High-Yield Solution-Phase Silicon Nanowire Synthesis. Chemistry of Materials, 2008, 20, 1239-1241.	3.2	54
149	Silicon Nanowires and Silica Nanotubes Seeded by Copper Nanoparticles in an Organic Solvent. Chemistry of Materials, 2008, 20, 2306-2313.	3.2	49
150	Two-photon luminescence imaging using a MEMS-based miniaturized probe. , 2008, , .		0
151	Novel nanocrystals as a platinum-delivery vehicle for chemotherapy. Nanomedicine, 2007, 2, 943-949.	1.7	2
152	Germanium nanowire transistors with ethylene glycol treated poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) contacts. Applied Physics Letters, 2007, 90, 072106.	1.5	23
153	Twin-Related Branching of Solution-Grown ZnSe Nanowires. Chemistry of Materials, 2007, 19, 4943-4948.	3.2	55
154	Lamellar Twinning in Semiconductor Nanowires. Journal of Physical Chemistry C, 2007, 111, 2929-2935.	1.5	151
155	Two-Photon Luminescence Imaging of Cancer Cells Using Molecularly Targeted Gold Nanorods. Nano Letters, 2007, 7, 941-945.	4.5	851
156	Colloidal magnetic nanocrystals: synthesis, properties and applications. Annual Reports on the Progress of Chemistry Section C, 2007, 103, 351.	4.4	46
157	Application of Aberration-Corrected TEM and Image Simulation to Nanoelectronics and Nanotechnology. IEEE Transactions on Semiconductor Manufacturing, 2006, 19, 391-396.	1.4	18
158	Synthesis and Magnetic Properties of Silica-Coated FePt Nanocrystals. Journal of Physical Chemistry B, 2006, 110, 11160-11166.	1.2	207
159	High Yield Multiwall Carbon Nanotube Synthesis in Supercritical Fluids. Chemistry of Materials, 2006, 18, 3356-3364.	3.2	37
160	Temperature Dependence of the Field Effect Mobility of Solution-Grown Germanium Nanowires. Journal of Physical Chemistry B, 2006, 110, 6816-6823.	1.2	33
161	Columnar Self-Assembly of Colloidal Nanodisks. Nano Letters, 2006, 6, 2959-2963.	4.5	149
162	Space charge limited currents and trap concentrations in GaAs nanowires. Nanotechnology, 2006, 17, 2681-2688.	1.3	79

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163	Twins cause kinks. Nature Materials, 2006, 5, 521-522.	13.3	49
164	Labeling tumor cells with fluorescent nanocrystalâ€“aptamer bioconjugates. Biosensors and Bioelectronics, 2006, 21, 1859-1866.	5.3	146
165	Electrorheological analysis of nano laden suspensions. Journal of Colloid and Interface Science, 2006, 297, 618-624.	5.0	39
166	Nanocrystal-Mediated Crystallization of Silicon and Germanium Nanowires in Organic Solvents: The Role of Catalysis and Solid-Phase Seeding. Angewandte Chemie - International Edition, 2006, 45, 5184-5187.	7.2	57
167	Molecular Optical Imaging of Therapeutic Targets of Cancer. Advances in Cancer Research, 2006, 96, 299-344.	1.9	26
168	The Role of Precursor-Decomposition Kinetics in Silicon-Nanowire Synthesis in Organic Solvents. Angewandte Chemie - International Edition, 2005, 44, 3573-3577.	7.2	79
169	Wet Chemical Synthesis of Germanium Nanocrystals. Materials Research Society Symposia Proceedings, 2005, 879, 1.	0.1	3
170	Synthesis of germanium nanocrystals in high temperature supercritical CO2. Nanotechnology, 2005, 16, S389-S394.	1.3	29
171	Bismuth Nanocrystal-Seeded III-V Semiconductor Nanowire Synthesis. Crystal Growth and Design, 2005, 5, 1971-1976.	1.4	88
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