

Brian A Korgel

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214
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h-index

137
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223
ext. papers

21,466
ext. citations

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avg, IF

6.85
L-index

#	Paper	IF	Citations
214	Control of thickness and orientation of solution-grown silicon nanowires. <i>Science</i> , 2000 , 287, 1471-3	33.3	1369
213	Copper selenide nanocrystals for photothermal therapy. <i>Nano Letters</i> , 2011 , 11, 2560-6	11.5	1047
212	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , 2015 , 9, 1012-57	16.7	849
211	Synthesis of CuInS ₂ , CuInSe ₂ , and Cu(In _x Ga(1-x))Se ₂ (CIGS) nanocrystal "inks" for printable photovoltaics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16770-7	16.4	831
210	Two-photon luminescence imaging of cancer cells using molecularly targeted gold nanorods. <i>Nano Letters</i> , 2007 , 7, 941-5	11.5	769
209	Synthesis of Cu ₂ ZnSnS ₄ nanocrystals for use in low-cost photovoltaics. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12554-5	16.4	594
208	In situ TEM of two-phase lithiation of amorphous silicon nanospheres. <i>Nano Letters</i> , 2013 , 13, 758-64	11.5	573
207	Solution-grown silicon nanowires for lithium-ion battery anodes. <i>ACS Nano</i> , 2010 , 4, 1443-50	16.7	446
206	Assembly and Self-Organization of Silver Nanocrystal Superlattices: Ordered Soft Spheres <i>Journal of Physical Chemistry B</i> , 1998 , 102, 8379-8388	3.4	431
205	Solventless synthesis of monodisperse Cu ₂ S nanorods, nanodisks, and nanoplatelets. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16050-7	16.4	399
204	The importance of the CTAB surfactant on the colloidal seed-mediated synthesis of gold nanorods. <i>Langmuir</i> , 2008 , 24, 644-9	4	329
203	Solventless synthesis of copper sulfide nanorods by thermolysis of a single source thiolate-derived precursor. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5638-9	16.4	296
202	Size Tunable Visible Luminescence from Individual Organic Monolayer Stabilized Silicon Nanocrystal Quantum Dots. <i>Nano Letters</i> , 2002 , 2, 681-685	11.5	292
201	Synthesis of Ligand-Stabilized Silicon Nanocrystals with Size-Dependent Photoluminescence Spanning Visible to Near-Infrared Wavelengths. <i>Chemistry of Materials</i> , 2012 , 24, 393-401	9.6	286
200	General shape control of colloidal CdS, CdSe, CdTe quantum rods and quantum rod heterostructures. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8538-42	3.4	285
199	Nucleation and growth of germanium nanowires seeded by organic monolayer-coated gold nanocrystals. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1424-9	16.4	259
198	Silicon nanowire fabric as a lithium ion battery electrode material. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20914-21	16.4	230

197	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
196	Solventless Synthesis of Nickel Sulfide Nanorods and Triangular Nanoprisms. <i>Nano Letters</i> , 2004 , 4, 537-543		211
195	Synthesis and magnetic properties of silica-coated FePt nanocrystals. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11160-6	3.4	195
194	Chemical surface passivation of Ge nanowires. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15466-15472	16.7	190
193	Synthesis of organic monolayer-stabilized copper nanocrystals in supercritical water. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7797-803	16.4	187
192	Solventless Synthesis of Bi ₂ S ₃ (Bismuthinite) Nanorods, Nanowires, and Nanofabric. <i>Chemistry of Materials</i> , 2005 , 17, 1655-1660	9.6	184
191	Hydrophobic gold nanoparticle self-assembly with phosphatidylcholine lipid: membrane-loaded and janus vesicles. <i>Nano Letters</i> , 2010 , 10, 3733-9	11.5	173
190	Lithium ion battery performance of silicon nanowires with carbon skin. <i>ACS Nano</i> , 2014 , 8, 915-22	16.7	165
189	Solution-grown germanium nanowire anodes for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4658-64	9.5	165
188	Small-angle x-ray-scattering study of silver-nanocrystal disorder-order phase transitions. <i>Physical Review B</i> , 1999 , 59, 14191-14201	3.3	159
187	Nanocrystal and Nanowire Synthesis and Dispersibility in Supercritical Fluids. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9574-9587	3.4	158
186	Solution-liquid-solid (SLS) growth of silicon nanowires. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5436-7	16.4	156
185	General Synthesis and Gas-Sensing Properties of Multiple-Shell Metal Oxide Hollow Microspheres. <i>Angewandte Chemie</i> , 2011 , 123, 2790-2793	3.6	142
184	Columnar self-assembly of colloidal nanodisks. <i>Nano Letters</i> , 2006 , 6, 2959-63	11.5	142
183	Lamellar Twinning in Semiconductor Nanowires. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2929-2935	3.8	139
182	Monodisperse silicon nanocavities and photonic crystals with magnetic response in the optical region. <i>Nature Communications</i> , 2013 , 4, 1904	17.4	135
181	Copper-Coated Amorphous Silicon Particles as an Anode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 1306-1315	9.6	131
180	Self-assembled simple hexagonal AB(2) binary nanocrystal superlattices: SEM, GISAXS, and defects. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3281-90	16.4	131

179	Labeling tumor cells with fluorescent nanocrystal-aptamer bioconjugates. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1859-66	11.8	131
178	Growth of Single Crystal Silicon Nanowires in Supercritical Solution from Tethered Gold Particles on a Silicon Substrate. <i>Nano Letters</i> , 2003 , 3, 93-99	11.5	129
177	Condensation of Ordered Nanocrystal Thin Films. <i>Physical Review Letters</i> , 1998 , 80, 3531-3534	7.4	128
176	Opto-thermoelectric nanotweezers. <i>Nature Photonics</i> , 2018 , 12, 195-201	33.9	127
175	Influence of surface states on electron transport through intrinsic Ge nanowires. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5518-24	3.4	127
174	Alkyl passivation and amphiphilic polymer coating of silicon nanocrystals for diagnostic imaging. <i>Small</i> , 2010 , 6, 2026-34	11	125
173	Spray-deposited CuInSe ₂ nanocrystal photovoltaics. <i>Energy and Environmental Science</i> , 2010 , 3, 1600	35.4	122
172	CuInSe ₂ Quantum Dot Solar Cells with High Open-Circuit Voltage. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2030-4	6.4	118
171	Synthesis of high aspect ratio quantum-size CdS nanorods and their surface-dependent photoluminescence. <i>Langmuir</i> , 2008 , 24, 9043-9	4	117
170	Synthesis and Characterization of Dilute Magnetic Semiconductor Manganese-Doped Indium Arsenide Nanocrystals. <i>Nano Letters</i> , 2003 , 3, 1441-1447	11.5	116
169	Wurtzite-Chalcopyrite Polytypism in CuInS ₂ Nanodisks. <i>Chemistry of Materials</i> , 2009 , 21, 1962-1966	9.6	115
168	Germanium as a Sodium Ion Battery Material: In Situ TEM Reveals Fast Sodiation Kinetics with High Capacity. <i>Chemistry of Materials</i> , 2016 , 28, 1236-1242	9.6	114
167	Synthesis of Cadmium Sulfide Q Particles in Water-in-CO ₂ Microemulsions. <i>Langmuir</i> , 1999 , 15, 6613-6615	4	112
166	Colloidal CIGS and CZTS nanocrystals: A precursor route to printed photovoltaics. <i>Journal of Solid State Chemistry</i> , 2012 , 189, 2-12	3.3	109
165	Self-Assembled Honeycomb Networks of Gold Nanocrystals. <i>Nano Letters</i> , 2001 , 1, 595-600	11.5	109
164	Synthesis of Germanium Nanocrystals in High Temperature Supercritical Fluid Solvents. <i>Nano Letters</i> , 2004 , 4, 969-974	11.5	102
163	Pyrite Nanocrystal Solar Cells: Promising, or Fool's Gold?. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2352-6	6.4	99
162	Carbon nanotube synthesis in supercritical toluene. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4951-7	16.4	98

161	Tin-Seeded Silicon Nanowires for High Capacity Li-Ion Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 3738-3745	16.4	97
160	High yield solution-liquid-solid synthesis of germanium nanowires. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15718-9	16.4	97
159	In vivo whole animal fluorescence imaging of a microparticle-based oral vaccine containing (CuInSe(x)S(2-x))/ZnS core/shell quantum dots. <i>Nano Letters</i> , 2013 , 13, 4294-8	11.5	95
158	Metal nanocrystal superlattice nucleation and growth. <i>Langmuir</i> , 2004 , 20, 978-83	4	95
157	Raman Spectroscopy of Oxide-Embedded and Ligand-Stabilized Silicon Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1089-93	6.4	93
156	Flexible germanium nanowires: ideal strength, room temperature plasticity, and bendable semiconductor fabric. <i>ACS Nano</i> , 2010 , 4, 2356-62	16.7	93
155	Germanium Nanowire Synthesis: An Example of Solid-Phase Seeded Growth with Nickel Nanocrystals. <i>Chemistry of Materials</i> , 2005 , 17, 5705-5711	9.6	93
154	Growth Kinetics and Metastability of Monodisperse Tetraoctylammonium Bromide Capped Gold Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 193-199	3.4	92
153	High Yield of Germanium Nanocrystals Synthesized from Germanium Diiodide in Solution. <i>Chemistry of Materials</i> , 2005 , 17, 6479-6485	9.6	90
152	Catalytic solid-phase seeding of silicon nanowires by nickel nanocrystals in organic solvents. <i>Nano Letters</i> , 2005 , 5, 681-4	11.5	84
151	Electrochemical Lithiation of Graphene-Supported Silicon and Germanium for Rechargeable Batteries. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11917-11923	3.8	83
150	Bismuth Nanocrystal-Seeded III-V Semiconductor Nanowire Synthesis. <i>Crystal Growth and Design</i> , 2005 , 5, 1971-1976	3.5	82
149	Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23240-23248	3.8	78
148	Room temperature hydrosilylation of silicon nanocrystals with bifunctional terminal alkenes. <i>Langmuir</i> , 2013 , 29, 1533-40	4	76
147	Multiexciton Solar Cells of CuInSe ₂ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 304-9	6.4	73
146	Influences of Gold, Binder and Electrolyte on Silicon Nanowire Performance in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18079-18086	3.8	71
145	Creating polymer hydrogel microfibrils with internal alignment via electrical and mechanical stretching. <i>Biomaterials</i> , 2014 , 35, 3243-51	15.6	69
144	Supercritical Fluid-Liquid-Solid Synthesis of Gallium Phosphide Nanowires. <i>Chemistry of Materials</i> , 2005 , 17, 230-233	9.6	69

143	Space charge limited currents and trap concentrations in GaAs nanowires. <i>Nanotechnology</i> , 2006 , 17, 2681-2688	3.4	69
142	The Role of Ligand Packing Frustration in Body-Centered Cubic (bcc) Superlattices of Colloidal Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2406-12	6.4	67
141	Limitations on the optical tunability of small diameter gold nanoshells. <i>Langmuir</i> , 2009 , 25, 11777-85	4	67
140	The role of precursor-decomposition kinetics in silicon-nanowire synthesis in organic solvents. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3573-7	16.4	67
139	Thickness-limited performance of CuInSe ₂ nanocrystal photovoltaic devices. <i>Optics Express</i> , 2010 , 18 Suppl 3, A411-20	3.3	66
138	Seeded germanium nanowire synthesis in solution. <i>Journal of Materials Chemistry</i> , 2009 , 19, 996		65
137	Synthesis of amorphous silicon colloids by trisilane thermolysis in high temperature supercritical solvents. <i>Langmuir</i> , 2004 , 20, 6546-8	4	65
136	Graphene-Supported High-Resolution TEM and STEM Imaging of Silicon Nanocrystals and their Capping Ligands. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22463-22468	3.8	64
135	Nanocrystal photovoltaics: a review of recent progress. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 160-167	5.4	63
134	Nanocrystals for electronics. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2012 , 3, 287-311	8.9	62
133	High capacity lithium ion battery anodes of silicon and germanium. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 286-293	5.4	60
132	Time-Resolved Small-Angle X-ray Scattering Studies of Nanocrystal Superlattice Self-Assembly. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2969-2970	16.4	60
131	Strongly birefringent pb ₃ o ₂ cl ₂ nanobelts. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10089-95	16.4	59
130	Inverse Opal Nanocrystal Superlattice Films. <i>Nano Letters</i> , 2004 , 4, 1943-1948	11.5	58
129	Multifunctional Particles: Magnetic Nanocrystals and Gold Nanorods Coated with Fluorescent Dye-Doped Silica Shells. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1590-1599	3.3	56
128	Melting and Sintering of a Body-Centered Cubic Superlattice of PbSe Nanocrystals Followed by Small Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6397-6404	3.8	55
127	A Tips and Tricks Practical Guide to the Synthesis of Metal Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2020 , 32, 5410-5423	9.6	54
126	Tunable Resonance Coupling in Single Si Nanoparticle-Monolayer WS Structures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16690-16697	9.5	54

125	Comparison of the photovoltaic response of oleylamine and inorganic ligand-capped CuInSe ₂ nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2757-61	9.5	54
124	Nanocrystal-mediated crystallization of silicon and germanium nanowires in organic solvents: the role of catalysis and solid-phase seeding. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5184-7	16.4	54
123	Reversible solvent vapor-mediated phase changes in nanocrystal superlattices. <i>ACS Nano</i> , 2011 , 5, 2419-24.7	24.7	53
122	Photoluminescence quenching of silicon nanoparticles in phospholipid vesicle bilayers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 158, 111-117	4.7	53
121	Hydrogenated Amorphous Silicon (a-Si:H) Colloids. <i>Chemistry of Materials</i> , 2010 , 22, 6378-6383	9.6	52
120	Importance of Solvent-Mediated Phenylsilane Decomposition Kinetics for High-Yield Solution-Phase Silicon Nanowire Synthesis. <i>Chemistry of Materials</i> , 2008 , 20, 1239-1241	9.6	51
119	Twin-Related Branching of Solution-Grown ZnSe Nanowires. <i>Chemistry of Materials</i> , 2007 , 19, 4943-4948	9.6	51
118	Challenges in quantum dot-neuron active interfacing. <i>Talanta</i> , 2005 , 67, 462-71	6.2	50
117	Silicon Nanocrystals Functionalized with Pyrene Units: Efficient Light-Harvesting Antennae with Bright Near-Infrared Emission. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3325-9	6.4	49
116	GISAXS Characterization of Order in Hexagonal Monolayers of FePt Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14427-14432	3.8	49
115	Colloidal luminescent silicon nanorods. <i>Nano Letters</i> , 2013 , 13, 3101-5	11.5	48
114	Corrosion Resistance of Thiol- and Alkene-Passivated Germanium Nanowires. <i>Chemistry of Materials</i> , 2010 , 22, 3698-3703	9.6	48
113	Colloidal silicon nanorod synthesis. <i>Nano Letters</i> , 2009 , 9, 3042-7	11.5	48
112	Ordered structure rearrangements in heated gold nanocrystal superlattices. <i>Nano Letters</i> , 2013 , 13, 5710-15	11.5	47
111	Copper indium gallium selenide (CIGS) photovoltaic devices made using multistep selenization of nanocrystal films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9134-40	9.5	47
110	Colloidal Synthesis of Germanium Nanorods. <i>Chemistry of Materials</i> , 2011 , 23, 1964-1970	9.6	46
109	Second Virial Coefficient Measurements of Dilute Gold Nanocrystal Dispersions Using Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16732-16738	3.4	46
108	Flexible CuInSe ₂ Nanocrystal Solar Cells on Paper. <i>ACS Energy Letters</i> , 2017 , 2, 574-581	20.1	45

107	Synthesis and Ligand Exchange of Thiol-Capped Silicon Nanocrystals. <i>Langmuir</i> , 2015 , 31, 6886-93	4	45
106	Young's Modulus and Size-Dependent Mechanical Quality Factor of Nanoelectromechanical Germanium Nanowire Resonators. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10725-10729	3.8	45
105	Enhanced Open-Circuit Voltage of Wide-Bandgap Perovskite Photovoltaics by Using Alloyed (FA _{1-x} Cs _x)Pb(I _{1-x} Br _x) ₃ Quantum Dots. <i>ACS Energy Letters</i> , 2019 , 4, 1954-1960	20.1	44
104	Silicon Nanowires and Silica Nanotubes Seeded by Copper Nanoparticles in an Organic Solvent. <i>Chemistry of Materials</i> , 2008 , 20, 2306-2313	9.6	42
103	All-optical reconfigurable chiral meta-molecules. <i>Materials Today</i> , 2019 , 25, 10-20	21.8	40
102	Melting Transition of a Quantum Dot Solid: Collective Interactions Influence the Thermally-Induced Order-Disorder Transition of a Silver Nanocrystal Superlattice. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3533-3534	16.4	40
101	Colloidal magnetic nanocrystals: synthesis, properties and applications. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2007 , 103, 351		38
100	Kinetics of Nonequilibrium Nanocrystal Monolayer Formation: Deposition from Liquid Carbon Dioxide. <i>Nano Letters</i> , 2003 , 3, 1671-1675	11.5	37
99	Surface Science and Colloidal Stability of Double-Perovskite Cs ₂ AgBiBr ₆ Nanocrystals and Their Superlattices. <i>Chemistry of Materials</i> , 2019 , 31, 7962-7969	9.6	36
98	Stacking of hexagonal nanocrystal layers during Langmuir-Blodgett deposition. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6017-26	3.4	36
97	In Situ TEM Observations of Sn-Containing Silicon Nanowires Undergoing Reversible Pore Formation Due to Fast Lithiation/Delithiation Kinetics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21889-21895	3.8	35
96	High Yield Multiwall Carbon Nanotube Synthesis in Supercritical Fluids. <i>Chemistry of Materials</i> , 2006 , 18, 3356-3364	9.6	35
95	Self-Assembly and Thermal Stability of Binary Superlattices of Gold and Silicon Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4,	6.4	32
94	Materials science. Nanosprings take shape. <i>Science</i> , 2005 , 309, 1683-4	33.3	32
93	Electrorheological analysis of nano laden suspensions. <i>Journal of Colloid and Interface Science</i> , 2006 , 297, 618-24	9.3	32
92	Efficient Carrier Multiplication in Colloidal CuInSe ₂ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3169-74	6.4	31
91	Influence of composition on the performance of sintered Cu(In,Ga)Se ₂ nanocrystal thin-film photovoltaic devices. <i>ChemSusChem</i> , 2013 , 6, 481-6	8.3	31
90	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting?. <i>Faraday Discussions</i> , 2015 , 181, 181-92	3.6	30

89	Rapid SFLS Synthesis of Si Nanowires Using Trisilane with In situ Alkyl-Amine Passivation. <i>Chemistry of Materials</i> , 2011 , 23, 2697-2699	9.6	29
88	Synthesis of germanium nanocrystals in high temperature supercritical CO(2). <i>Nanotechnology</i> , 2005 , 16, S389-94	3.4	29
87	Temperature dependence of the field effect mobility of solution-grown germanium nanowires. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6816-23	3.4	29
86	Solvent Density-Dependent Steric Stabilization of Perfluoropolyether-Coated Nanocrystals in Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15969-15975	3.4	29
85	Orientationally Ordered Silicon Nanocrystal Cuboctahedra in Superlattices. <i>Nano Letters</i> , 2016 , 16, 7814-7821	11.8	28
84	Nanomaterials Developments for Higher-Performance Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 749-50	6.4	27
83	A single-step reaction for silicon and germanium nanorods. <i>Chemistry - A European Journal</i> , 2014 , 20, 5874-9	4.8	27
82	Materials science. Self-assembled nanocoils. <i>Science</i> , 2004 , 303, 1308-9	33.3	27
81	Silicon-Based Dielectric Metamaterials: Focus on the Current Synthetic Challenges. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4478-4498	16.4	27
80	Silicon nanocrystal superlattices. <i>ChemPhysChem</i> , 2013 , 14, 84-7	3.2	25
79	Efficient Carrier Multiplication in Colloidal Silicon Nanorods. <i>Nano Letters</i> , 2017 , 17, 5580-5586	11.5	25
78	A Comprehensive Study of Electron Energy Losses in Ge Nanowires. <i>Nano Letters</i> , 2004 , 4, 1455-1461	11.5	25
77	Low Temperature Colloidal Synthesis of Silicon Nanorods from Isotetrasilane, Neopentasilane, and Cyclohexasilane. <i>Chemistry of Materials</i> , 2015 , 27, 6053-6058	9.6	24
76	Light-harvesting antennae based on photoactive silicon nanocrystals functionalized with porphyrin chromophores. <i>Faraday Discussions</i> , 2015 , 185, 481-95	3.6	24
75	Molecular optical imaging of therapeutic targets of cancer. <i>Advances in Cancer Research</i> , 2007 , 96, 299-344	34.9	24
74	Chloroform-enhanced incorporation of hydrophobic gold nanocrystals into dioleoylphosphatidylcholine (DOPC) vesicle membranes. <i>Langmuir</i> , 2012 , 28, 12971-81	4	23
73	Enhanced Coloration Efficiency of Electrochromic Tungsten Oxide Nanorods by Site Selective Occupation of Sodium Ions. <i>Nano Letters</i> , 2020 , 20, 2072-2079	11.5	22
72	Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. <i>Chemistry of Materials</i> , 2015 , 27, 4390-4397	9.6	22

71	Enhanced Nickel-Seeded Synthesis of Germanium Nanowires. <i>Chemistry of Materials</i> , 2013 , 25, 2172-2177.	7.6	22
70	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8730-8735	16.4	21
69	Optical Properties of Silicon and Germanium Nanowire Fabric. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22486-22491	3.8	21
68	Structure-Properties Correlation in Si Nanoparticles by Total Scattering and Computer Simulations. <i>Chemistry of Materials</i> , 2013 , 25, 2365-2371	9.6	21
67	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. <i>Nano Letters</i> , 2021 , 21, 973-979	11.5	21
66	Role of Halides in the Ordered Structure Transitions of Heated Gold Nanocrystal Superlattices. <i>Langmuir</i> , 2015 , 31, 6924-32	4	20
65	Thermal Stability of the Black Perovskite Phase in Cesium Lead Iodide Nanocrystals Under Humid Conditions. <i>Chemistry of Materials</i> , 2019 , 31, 9750-9758	9.6	20
64	Antiferromagnetic Single Domain L12 FePt3 Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2512-2518	3.8	20
63	Mapping spatial heterogeneity in Cu(In(1-x)Ga(x))Se2 nanocrystal-based photovoltaics with scanning photocurrent and fluorescence microscopy. <i>Small</i> , 2010 , 6, 2832-6	11	20
62	Germanium nanowire transistors with ethylene glycol treated poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) contacts. <i>Applied Physics Letters</i> , 2007 , 90, 072106	3.4	20
61	Nonequilibrium phase behavior during the random sequential adsorption of tethered hard disks. <i>Physical Review Letters</i> , 2000 , 85, 4430-3	7.4	20
60	Development of wide bandgap perovskites for next-generation low-cost CdTe tandem solar cells. <i>Chemical Engineering Science</i> , 2019 , 199, 388-397	4.4	19
59	Spectrally tunable infrared plasmonic F,Sn:InO nanocrystal cubes. <i>Journal of Chemical Physics</i> , 2020 , 152, 014709	3.9	19
58	Gold seed removal from the tips of silicon nanorods. <i>Nano Letters</i> , 2010 , 10, 176-80	11.5	18
57	PEGylation of carboxylic acid-functionalized germanium nanowires. <i>Langmuir</i> , 2010 , 26, 14241-6	4	18
56	Bright long-lived luminescence of silicon nanocrystals sensitized by two-photon absorbing antenna. <i>CheM</i> , 2017 , 2, 550-560	16.2	17
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