

# Doh C Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141  
papers

4,596  
citations

39  
h-index

62  
g-index

146  
ext. papers

5,295  
ext. citations

8.2  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
141	Replacement effect of fresh electrolyte on the accelerated deactivation test and recovery process of Pt/C catalysts in a half-cell system. <i>Carbon Letters</i> , <b>2022</b> , 32, 313-319	2.3	0
140	Understanding an Exceptionally Fast and Stable Li-Ion Charging of Highly Fluorinated Graphene with Fine-Controlled C-F Configuration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 53767-53776	9.5	0
139	Interface polarization in heterovalent core-shell nanocrystals. <i>Nature Materials</i> , <b>2021</b> ,	27	11
138	Size effect of metal-organic frameworks with iron single-atom catalysts on oxygen reduction reactions. <i>Carbon Letters</i> , <b>2021</b> , 31, 1349	2.3	0
137	Recycling of waste tires by synthesizing N-doped carbon-based catalysts for oxygen reduction reaction. <i>Applied Surface Science</i> , <b>2021</b> , 548, 149027	6.7	7
136	Atomistics of Asymmetric Lateral Growth of Colloidal Zincblende CdSe Nanoplatelets. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4813-4820	9.6	7
135	Radical-driven photocatalytic transformation of organic molecules. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 1308-1316	2.8	0
134	Kinetic analysis on Cd-to-Pb and Cd-to-Zn direct cation exchange in CdSe nanorods. <i>Applied Surface Science Advances</i> , <b>2021</b> , 4, 100077	2.6	
133	Fluorescence Switchable Block Copolymer Particles with Doubly Alternate-Layered Nanoparticle Arrays. <i>Small</i> , <b>2021</b> , 17, e2101222	11	8
132	Metastable quantum dot for photoelectric devices via flash-induced one-step sequential self-formation. <i>Nano Energy</i> , <b>2021</b> , 84, 105889	17.1	5
131	Polarized Electroluminescence Emission in High-Performance Quantum Rod Light-Emitting Diodes via the Langmuir-Blodgett Technique. <i>Small</i> , <b>2021</b> , 17, e2101204	11	4
130	Stable Fast-charging electrodes derived from hierarchical porous carbon for lithium-ion batteries. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 4718-4726	4.5	3
129	Polarized Electroluminescence Emission in High-Performance Quantum Rod Light-Emitting Diodes via the Langmuir-Blodgett Technique (Small 32/2021). <i>Small</i> , <b>2021</b> , 17, 2170165	11	
128	Surface state-induced barrierless carrier injection in quantum dot electroluminescent devices. <i>Nature Communications</i> , <b>2021</b> , 12, 5669	17.4	4
127	Surface Ligands as Permeation Barrier in the Growth and Assembly of Anisotropic Semiconductor Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2647-2657	6.4	18
126	Chemically resistant and thermally stable quantum dots prepared by shell encapsulation with cross-linkable block copolymer ligands. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	15
125	Ligands as a universal molecular toolkit in synthesis and assembly of semiconductor nanocrystals. <i>Chemical Science</i> , <b>2020</b> , 11, 2318-2329	9.4	16

124	Photo-Patternable Quantum Dots/Siloxane Composite with Long-Term Stability for Quantum Dot Color Filters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3961-3968	9.5	17
123	Design of metallic cocatalysts in heterostructured nanoparticles for photocatalytic CO <sub>2</sub> -to-hydrocarbon conversion. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 123001	3	3
122	Efficient Optical Gain in Spherical Quantum Wells Enabled by Engineering Biexciton Interactions. <i>ACS Photonics</i> , <b>2020</b> , 7, 2252-2264	6.3	7
121	Softness- and Size-Dependent Packing Symmetries of Polymer-Grafted Nanoparticles. <i>ACS Nano</i> , <b>2020</b> , 14, 9644-9651	16.7	26
120	Fe-based non-noble metal catalysts with dual active sites of nanosized metal carbide and single-atomic species for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22379-22388	13	8
119	Synthesis of InP nanocrystals using triphenyl phosphite as phosphorus source. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1518-1526	2.8	8
118	Upcycling of lignin waste to activated carbon for supercapacitor electrode and organic adsorbent. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1543-1547	2.8	11
117	CuFeO-NiFeO hybrid electrode for lithium-ion batteries with ultra-stable electrochemical performance.. <i>RSC Advances</i> , <b>2019</b> , 9, 27257-27263	3.7	6
116	Depletion-Mediated Interfacial Assembly of Semiconductor Nanorods. <i>Nano Letters</i> , <b>2019</b> , 19, 963-970	11.5	19
115	Pushing the Efficiency Envelope for Semiconductor Nanocrystal-Based Electroluminescence Devices Using Anisotropic Nanocrystals. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3066-3082	9.6	40
114	Graphene quantum dots with nitrogen and oxygen derived from simultaneous reaction of solvent as exfoliant and dopant. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 624-630	14.7	12
113	Unusual Thermal Conductivity of Carbon Nanosheets with Self-Emerged Graphitic Carbon Dots. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13616-13623	9.5	5
112	Stacking of Colloidal CdSe Nanoplatelets into Twisted Ribbon Superstructures: Origin of Twisting and Its Implication in Optical Properties. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 9445-9453	3.8	16
111	Design Principle for Bright, Robust, and Color-Pure InP/ZnSexS1□/ZnS Heterostructures. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3476-3484	9.6	74
110	Field-Effect Transistors: Threshold Voltage Control of Multilayered MoS <sub>2</sub> Field-Effect Transistors via Octadecyltrichlorosilane and their Applications to Active Matrixed Quantum Dot Displays Driven by Enhancement-Mode Logic Gates (Small 7/2019). <i>Small</i> , <b>2019</b> , 15, 1970037	11	
109	Revealing the Dependence of Molecular-Level Force Transfer and Distribution on Polymer Cross-Link Density via Mechanophores. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 882-887	6.6	8
108	Exceptionally stable quantum dot/siloxane hybrid encapsulation material for white light-emitting diodes with a wide color gamut. <i>Nanoscale</i> , <b>2019</b> , 11, 14887-14895	7.7	16
107	Direct cation exchange of CdSe nanocrystals into ZnSe enabled by controlled binding between guest cations and organic ligands. <i>Nanoscale</i> , <b>2019</b> , 11, 15072-15082	7.7	7

106	Insight into the superior activity of bridging sulfur-rich amorphous molybdenum sulfide for electrochemical hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 258, 117995	21.8	28
105	Symmetry Transitions of Polymer-Grafted Nanoparticles: Grafting Density Effect. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5264-5273	9.6	26
104	Enhanced thermal stability of InP quantum dots coated with Al-doped ZnS shell. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 144704	3.9	6
103	Selectivity Modulated by Surface Ligands on Cu <sub>2</sub> O/TiO <sub>2</sub> Catalysts for Gas-Phase Photocatalytic Reduction of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 29184-29191	3.8	14
102	Controlling Ion-Exchange Balance and Morphology in Cation Exchange from Cu <sub>3</sub> P Nanoplatelets into InP Crystals. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1990-2001	9.6	22
101	Threshold Voltage Control of Multilayered MoS <sub>2</sub> Field-Effect Transistors via Octadecyltrichlorosilane and their Applications to Active Matrixed Quantum Dot Displays Driven by Enhancement-Mode Logic Gates. <i>Small</i> , <b>2019</b> , 15, e1803852	11	14
100	In Situ Self-Formed Nanosheet MoS <sub>2</sub> /Reduced Graphene Oxide Material Showing Superior Performance as a Lithium-Ion Battery Cathode. <i>ACS Nano</i> , <b>2019</b> , 13, 1490-1498	16.7	42
99	Hybrid materials of upcycled Mn <sub>3</sub> O <sub>4</sub> and reduced graphene oxide for a buffer layer in organic solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 61, 106-111	6.3	5
98	Understanding the Origin of Formation and Active Sites for Thiomolybdate [Mo <sub>3</sub> S <sub>13</sub> ] <sup>2-</sup> Clusters as Hydrogen Evolution Catalyst through the Selective Control of Sulfur Atoms. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5221-5227	13.1	36
97	Cu <sup>+</sup> -incorporated TiO <sub>2</sub> overlayer on Cu <sub>2</sub> O nanowire photocathodes for enhanced photoelectrochemical conversion of CO <sub>2</sub> to methanol. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 264-270	12	39
96	Selectivity of photoelectrochemical CO <sub>2</sub> reduction modulated with electron transfer from size-tunable quantized energy states of CdSe nanocrystals. <i>Applied Surface Science</i> , <b>2018</b> , 429, 2-8	6.7	17
95	Carbon Nanosheet from Polyethylene Thin Film as a Transparent Conducting Film: Upcycling of Waste to Organic Photovoltaics Application. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 12463-12470	8.3	18
94	Energy-efficient CO hydrogenation with fast response using photoexcitation of CO adsorbed on metal catalysts. <i>Nature Communications</i> , <b>2018</b> , 9, 3027	17.4	54
93	Reinforced PEI/PVdF Multicore-Shell Structure Composite Membranes by Phase Prediction on a Ternary Solution. <i>Polymers</i> , <b>2018</b> , 10,	4.5	2
92	Molecular valves for colloidal growth of nanocrystal quantum dots: effect of precursor decomposition and intermediate species. <i>MRS Communications</i> , <b>2018</b> , 8, 742-753	2.7	3
91	Observation of negative differential resistance in mesoscopic graphene oxide devices. <i>Scientific Reports</i> , <b>2018</b> , 8, 7144	4.9	15
90	Enhanced Lifetime and Efficiency of Red Quantum Dot Light-Emitting Diodes with Y-Doped ZnO Sol-Gel Electron-Transport Layers by Reducing Excess Electron Injection. <i>Advanced Quantum Technologies</i> , <b>2018</b> , 1, 1700006	4.3	25
89	Ligand-Asymmetric Janus Quantum Dots for Efficient Blue-Quantum Dot Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22453-22459	9.5	25

88	Nanothermite of Al nanoparticles and three-dimensionally ordered macroporous CuO: Mechanistic insight into oxidation during thermite reaction. <i>Combustion and Flame</i> , <b>2018</b> , 189, 87-91	5.3	18
87	Performance Limits of Luminescent Solar Concentrators Tested with Seed/Quantum-Well Quantum Dots in a Selective-Reflector-Based Optical Cavity. <i>Nano Letters</i> , <b>2018</b> , 18, 395-404	11.5	39
86	Molecule-Driven Shape Control of Metal Co-Catalysts for Selective CO <sub>2</sub> Conversion Photocatalysis. <i>ChemCatChem</i> , <b>2018</b> , 10, 5679-5688	5.2	8
85	Unraveling the Origin of Operational Instability of Quantum Dot Based Light-Emitting Diodes. <i>ACS Nano</i> , <b>2018</b> , 12, 10231-10239	16.7	68
84	Recombinant as a biofactory for various single- and multi-element nanomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5944-5949	11.5	60
83	Investigation into the Gelation of Polyacrylonitrile Solution Induced by Dry-jet in Spinning Process and Its Effects on Diffusional Process in Coagulation and Structural Properties of Carbon Fibers. <i>Macromolecular Research</i> , <b>2018</b> , 26, 544-551	1.9	4
82	Bi-axial grown amorphous MoS bridged with oxygen on r-GO as a superior stable and efficient nonprecious catalyst for hydrogen evolution. <i>Scientific Reports</i> , <b>2017</b> , 7, 41190	4.9	26
81	Continuous Purification of Colloidal Quantum Dots in Large-Scale Using Porous Electrodes in Flow Channel. <i>Scientific Reports</i> , <b>2017</b> , 7, 43581	4.9	16
80	Highly luminescent silica-coated CdS/CdSe/CdS nanoparticles with strong chemical robustness and excellent thermal stability. <i>Nanotechnology</i> , <b>2017</b> , 28, 185603	3.4	23
79	Iron oxide/porous carbon as a heterogeneous Fenton catalyst for fast decomposition of hydrogen peroxide and efficient removal of methylene blue. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 748-755	13	63
78	Heat- and water-proof quantum dot/siloxane composite film: Effect of quantum dot/siloxane linkage. <i>Journal of the Society for Information Display</i> , <b>2017</b> , 25, 108-116	2.1	4
77	32-2: Distinguished Student Paper: Quantum Dot/Siloxane Composite Film Exceptionally Stable Against Heat and Moisture. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 451-454	0.5	2
76	Exciton dynamics in cation-exchanged CdSe/PbSe nanorods: The role of defects. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 342-346	2.5	7
75	Multifunctional Dendrimer Ligands for High-Efficiency, Solution-Processed Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , <b>2017</b> , 11, 684-692	16.7	59
74	High Performance Graphitic Carbon from Waste Polyethylene: Thermal Oxidation as a Stabilization Pathway Revisited. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9518-9527	9.6	36
73	Origin of Shape-Dependent Fluorescence Polarization from CdSe Nanoplatelets. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24837-24844	3.8	29
72	Expanding depletion region via doping: Zn-doped Cu <sub>2</sub> O buffer layer in Cu <sub>2</sub> O photocathodes for photoelectrochemical water splitting. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 3214-3219	2.8	18
71	One-Step Printable Perovskite Films Fabricated under Ambient Conditions for Efficient and Reproducible Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27832-27838	9.5	44

70	Highly Stable Cesium Lead Halide Perovskite Nanocrystals through in Situ Lead Halide Inorganic Passivation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7088-7092	9.6	220
69	Highly durable platinum nanoparticles on carbon derived from pitch-based carbon fibers for oxygen reduction reaction. <i>Macromolecular Research</i> , <b>2017</b> , 25, 1158-1162	1.9	3
68	Colloidal Dual-Diameter and Core-Position-Controlled Core/Shell Cadmium Chalcogenide Nanorods. <i>ACS Nano</i> , <b>2017</b> , 11, 12461-12472	16.7	26
67	ZincPhosphorus Complex Working as an Atomic Valve for Colloidal Growth of Monodisperse Indium Phosphide Quantum Dots. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6346-6355	9.6	39
66	Centrifugal loop-mediated isothermal amplification microdevice for rapid, multiplex and colorimetric foodborne pathogen detection. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 75, 293-300	11.8	118
65	Influence of External Pressure on the Performance of Quantum Dot Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23947-52	9.5	3
64	Quantum efficiency of colloidal suspensions containing quantum dot/silica hybrid particles. <i>Nanotechnology</i> , <b>2016</b> , 27, 435702	3.4	6
63	Multicore-shell nanofiber architecture of polyimide/polyvinylidene fluoride blend for thermal and long-term stability of lithium ion battery separator. <i>Scientific Reports</i> , <b>2016</b> , 6, 36977	4.9	29
62	Comprehensive stabilization mechanism of electron-beam irradiated polyacrylonitrile fibers to shorten the conventional thermal treatment. <i>Scientific Reports</i> , <b>2016</b> , 6, 27330	4.9	40
61	Bilayer quantum dot-decorated mesoscopic inverse opals for high volumetric photoelectrochemical water splitting efficiency. <i>RSC Advances</i> , <b>2016</b> , 6, 8756-8762	3.7	8
60	Air-Stable PbSe Nanocrystals Passivated by Phosphonic Acids. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 876-83	16.4	62
59	Role of Surface States in Photocatalysis: Study of Chlorine-Passivated CdSe Nanocrystals for Photocatalytic Hydrogen Generation. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 962-968	9.6	56
58	One step synthesis of Au nanoparticle-cyclized polyacrylonitrile composite films and their use in organic nano-floating gate memory applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1511-1516	7.1	10
57	Minimizing the fluorescence quenching caused by uncontrolled aggregation of CdSe/CdS core/shell quantum dots for biosensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 871-878	8.5	34
56	Divide and Combust: Effect of Morphology of CuO Nanowires on the Combustion Rate of Al Nanoparticle-CuO Nanowire Thermite Composites. <i>Science of Advanced Materials</i> , <b>2016</b> , 8, 185-189	2.3	2
55	Bi <sub>2</sub> O <sub>3</sub> as a Promoter for Cu/TiO <sub>2</sub> Photocatalysts for the Selective Conversion of Carbon Dioxide into Methane. <i>ChemCatChem</i> , <b>2016</b> , 8, 1641-1645	5.2	19
54	Quantum Dot/Siloxane Composite Film Exceptionally Stable against Oxidation under Heat and Moisture. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16478-16485	16.4	55
53	Low-coordinated surface atoms of CuPt alloy cocatalysts on TiO <sub>2</sub> for enhanced photocatalytic conversion of CO <sub>2</sub> . <i>Nanoscale</i> , <b>2016</b> , 8, 10043-8	7.7	59

52	Colloidal Spherical Quantum Wells with Near-Unity Photoluminescence Quantum Yield and Suppressed Blinking. <i>ACS Nano</i> , <b>2016</b> , 10, 9297-9305	16.7	94
51	Direct Cd-to-Pb Exchange of CdSe Nanorods into PbSe/CdSe Axial Heterojunction Nanorods. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5295-5304	9.6	37
50	Super high flux microfiltration based on electrospun nanofibrous m-aramid membranes for water treatment. <i>Macromolecular Research</i> , <b>2015</b> , 23, 601-606	1.9	22
49	Multicolor Emitting Block Copolymer-Integrated Graphene Quantum Dots for Colorimetric, Simultaneous Sensing of Temperature, pH, and Metal Ions. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5288-5294	9.6	60
48	Alternating Current Dielectrophoresis Optimization of Pt-Decorated Graphene Oxide Nanostructures for Proficient Hydrogen Gas Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13768-75	9.5	29
47	Controlled Vortex Formation and Facilitated Energy Transfer within Aggregates of Colloidal CdS Nanorods. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2797-2802	9.6	14
46	Surface energy-driven growth of crystalline PbS octahedra and dendrites in the presence of cyclodextrin-surfactant supramolecular complexes. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	8
45	Ultra-high dispersion of graphene in polymer composite via solvent free fabrication and functionalization. <i>Scientific Reports</i> , <b>2015</b> , 5, 9141	4.9	83
44	Temperature and magnetic-field dependence of radiative decay in colloidal germanium quantum dots. <i>Nano Letters</i> , <b>2015</b> , 15, 2685-92	11.5	10
43	Formation of Cu layer on Al nanoparticles during thermite reaction in Al/CuO nanoparticle composites: Investigation of off-stoichiometry ratio of Al and CuO nanoparticles for maximum pressure change. <i>Combustion and Flame</i> , <b>2015</b> , 162, 3823-3828	5.3	9
42	Efficient inverted-structure polymer solar cells with reduced graphene oxide for anode modification. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 24, 206-210	6.3	10
41	Self-organization of nanorods into ultra-long range two-dimensional monolayer end-to-end network. <i>Nano Letters</i> , <b>2015</b> , 15, 714-20	11.5	30
40	A centrifuge-based stepwise chemical loading disc for the production of multiplex anisotropic metallic nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 1846-1851	3.7	9
39	An advanced centrifugal microsystem toward high-throughput multiplex colloidal nanocrystal synthesis. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 927-933	8.5	14
38	Anisotropic microparticles created by phase separation of polymer blends confined in monodisperse emulsion drops. <i>Langmuir</i> , <b>2015</b> , 31, 937-43	4	50
37	Origin of photoluminescence from colloidal gallium phosphide nanocrystals synthesized via a hot-injection method. <i>RSC Advances</i> , <b>2015</b> , 5, 2466-2469	3.7	12
36	Thin Amorphous TiO <sub>2</sub> Shell on CdSe Nanocrystal Quantum Dots Enhances Photocatalysis of Hydrogen Evolution from Water. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23627-23634	3.8	57
35	Slow colloidal growth of PbSe nanocrystals for facile morphology and size control. <i>RSC Advances</i> , <b>2014</b> , 4, 9842	3.7	20

34	Restoration of the genuine electronic properties of functionalized single-walled carbon nanotubes. <i>RSC Advances</i> , <b>2014</b> , 4, 42930-42935	3.7	7
33	Tetrapod CdSe-sensitized macroporous inverse opal electrodes for photo-electrochemical applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17568-17573	13	9
32	Photocorrosion-Assisted Transformation of Metal Selenide Nanocrystals into Crystalline Selenium Nanowires. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 1258-1263	3.5	12
31	Dielectrophoresis of graphene oxide nanostructures for hydrogen gas sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 194, 296-302	8.5	58
30	Ultrastable PbSe nanocrystal quantum dots via in situ formation of atomically thin halide adlayers on PbSe(100). <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8883-6	16.4	148
29	Influence of shell thickness on the performance of light-emitting devices based on CdSe/Zn <sub>1-X</sub> CdX S core/shell heterostructured quantum dots. <i>Advanced Materials</i> , <b>2014</b> , 26, 8034-40	24	211
28	Effects of drawing process on the structure and tensile properties of textile-grade PAN fiber and its carbon fiber. <i>E-Polymers</i> , <b>2014</b> , 14, 217-224	2.7	7
27	Assembly of thermally reduced graphene oxide nanostructures by alternating current dielectrophoresis as hydrogen-gas sensors. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 083112	3.4	24
26	Highly effective surface passivation of PbSe quantum dots through reaction with molecular chlorine. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 20160-8	16.4	198
25	Extending the Limit of Low-Energy Photocatalysis: Dye Reduction with PbSe/CdSe/CdS Core/Shell/Shell Nanocrystals of Varying Morphologies under Infrared Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25407-25414	3.8	39
24	Crystalline transformation of colloidal nanoparticles on graphene oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1021-9	9.5	12
23	Spectral dependence of nanocrystal photoionization probability: the role of hot-carrier transfer. <i>ACS Nano</i> , <b>2011</b> , 5, 5045-55	16.7	64
22	Infrared-active heterostructured nanocrystals with ultralong carrier lifetimes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9960-2	16.4	74
21	Antiferromagnetic Single Domain L1 <sub>2</sub> FePt <sub>3</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2512-2518	3.8	20
20	Rotational and translational diffusivities of germanium nanowires. <i>Rheologica Acta</i> , <b>2009</b> , 48, 589-596	2.3	17
19	Colloidal synthesis of infrared-emitting germanium nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3436-7	16.4	130
18	Young's Modulus and Size-Dependent Mechanical Quality Factor of Nanoelectromechanical Germanium Nanowire Resonators. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 10725-10729	3.8	45
17	Lamellar Twinning in Semiconductor Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 2929-2935	3.8	139



16	Colloidal magnetic nanocrystals: synthesis, properties and applications. <i>Annual Reports on the Progress of Chemistry Section C</i> , <b>2007</b> , 103, 351		38
15	Germanium nanowire transistors with ethylene glycol treated poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) contacts. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 072106	3.4	20
14	Synthesis and magnetic properties of silica-coated FePt nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 11160-6	3.4	195
13	High Yield Multiwall Carbon Nanotube Synthesis in Supercritical Fluids. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3356-3364	9.6	35
12	Synthesis and magnetic properties of colloidal MnPt <sub>3</sub> nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 20906-11	3.4	19
11	Electrochemistry and electrogenerated chemiluminescence of films of silicon nanoparticles in aqueous solution. <i>Nanotechnology</i> , <b>2006</b> , 17, 3791-3797	3.4	61
10	Metal nanocrystal-seeded synthesis of carbon nanotubes and nanofibers in a supercritical fluid. <i>Molecular Simulation</i> , <b>2005</b> , 31, 637-642	2	10
9	Germanium Nanowire Synthesis: An Example of Solid-Phase Seeded Growth with Nickel Nanocrystals. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5705-5711	9.6	93
8	Catalytic solid-phase seeding of silicon nanowires by nickel nanocrystals in organic solvents. <i>Nano Letters</i> , <b>2005</b> , 5, 681-4	11.5	84
7	The role of precursor-decomposition kinetics in silicon-nanowire synthesis in organic solvents. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 3573-7	16.4	67
6	The Role of Precursor-Decomposition Kinetics in Silicon-Nanowire Synthesis in Organic Solvents. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 3639-3643	3.6	3
5	Carbon nanotube synthesis in supercritical toluene. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4951-7	16.4	98
4	Upcycling waste tires to affordable catalysts for the oxygen reduction reaction. <i>International Journal of Energy Research</i> ,	4.5	1
3	Structure Stability, Flame Retardancy, and Antimicrobial Properties of Polyurethane Composite Nanofibers Containing Tannic Acid and Boron-Doped Carbon Nanotubes. <i>Macromolecular Materials and Engineering</i> , 2100455	3.9	0
2	High-capacity anode derived from graphene oxide with lithium-active functional groups. <i>International Journal of Energy Research</i> ,	4.5	1
1	Charge-Selective, Narrow-Gap Indium Arsenide Quantum Dot Layer for Highly Stable and Efficient Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2104018	21.8	3