

Sohee Jeong

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117
papers

4,438
citations

36
h-index

63
g-index

120
ext. papers

4,987
ext. citations

9.4
avg, IF

5.65
L-index

#	Paper	IF	Citations
117	Steric-hindrance-driven shape transition in PbS quantum dots: understanding size-dependent stability. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5278-81	16.4	242
116	Highly Stable Cesium Lead Halide Perovskite Nanocrystals through in Situ Lead Halide Inorganic Passivation. <i>Chemistry of Materials</i> , 2017 , 29, 7088-7092	9.6	220
115	Chemistry of InP Nanocrystal Syntheses. <i>Chemistry of Materials</i> , 2016 , 28, 2491-2506	9.6	215
114	Effect of the thiol-thiolate equilibrium on the photophysical properties of aqueous CdSe/ZnS nanocrystal quantum dots. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10126-7	16.4	204
113	Well-defined colloidal 2-D layered transition-metal chalcogenide nanocrystals via generalized synthetic protocols. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18233-6	16.4	191
112	Size dependent macrophage responses and toxicological effects of Ag nanoparticles. <i>Chemical Communications</i> , 2011 , 47, 4382-4	5.8	185
111	High-efficiency carrier multiplication and ultrafast charge separation in semiconductor nanocrystals studied via time-resolved photoluminescence. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25332-8	3.4	168
110	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> , 2014 , 136, 8883-6	16.4	148
109	Ultrathin zirconium disulfide nanodiscs. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7636-9	16.4	133
108	Colloidal synthesis of single-layer MSe ₂ (M = Mo, W) nanosheets via anisotropic solution-phase growth approach. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7266-9	16.4	127
107	Chemical synthetic strategy for single-layer transition-metal chalcogenides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14670-3	16.4	122
106	Tandem intercalation strategy for single-layer nanosheets as an effective alternative to conventional exfoliation processes. <i>Nature Communications</i> , 2015 , 6, 5763	17.4	106
105	Photoenhancement of a quantum dot nanocomposite via UV annealing and its application to white LEDs. <i>Advanced Materials</i> , 2011 , 23, 911-4	24	99
104	Air-Stable and Efficient PbSe Quantum-Dot Solar Cells Based upon ZnSe to PbSe Cation-Exchanged Quantum Dots. <i>ACS Nano</i> , 2015 , 9, 8157-64	16.7	95
103	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. <i>Nature Energy</i> , 2019 , 4, 969-976	62.3	78
102	Halide-Amine Co-Passivated Indium Phosphide Colloidal Quantum Dots in Tetrahedral Shape. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3714-8	16.4	76
101	Continuous extraction of highly pure metallic single-walled carbon nanotubes in a microfluidic channel. <i>Nano Letters</i> , 2008 , 8, 4380-5	11.5	67

100	Air-Stable PbSe Nanocrystals Passivated by Phosphonic Acids. <i>Journal of the American Chemical Society</i> , 2016 , 138, 876-83	16.4	62
99	Thin film solar cells based on the heterojunction of colloidal PbS quantum dots with CdS. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 476-482	6.4	57
98	Successive and large-scale synthesis of InP/ZnS quantum dots in a hybrid reactor and their application to white LEDs. <i>Nanotechnology</i> , 2012 , 23, 065602	3.4	57
97	Role of Surface States in Photocatalysis: Study of Chlorine-Passivated CdSe Nanocrystals for Photocatalytic Hydrogen Generation. <i>Chemistry of Materials</i> , 2016 , 28, 962-968	9.6	56
96	The scaling of the effective band gaps in indium-arsenide quantum dots and wires. <i>ACS Nano</i> , 2008 , 2, 1903-13	16.7	53
95	Facile synthesis of uniform large-sized InP nanocrystal quantum dots using tris(tert-butyldimethylsilyl)phosphine. <i>Nanoscale Research Letters</i> , 2012 , 7, 93	5	52
94	One-Step Deposition of Photovoltaic Layers Using Iodide Terminated PbS Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4002-7	6.4	49
93	Transformative two-dimensional layered nanocrystals. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14500-3	16.4	49
92	Thermal behavior of a quantum dot nanocomposite as a color converting material and its application to white LED. <i>Nanotechnology</i> , 2010 , 21, 495704	3.4	47
91	Enhanced Photoluminance of Layered Quantum Dot/Phosphor Nanocomposites as Converting Materials for Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20945-20952	3.8	46
90	Low-Temperature Annealing for Highly Conductive Lead Chalcogenide Quantum Dot Solids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 607-612	3.8	43
89	Efficient electron transfer in functional assemblies of pyridine-modified NQDs on SWNTs. <i>ACS Nano</i> , 2010 , 4, 324-30	16.7	42
88	Supersonically Spray-Coated Colloidal Quantum Dot Ink Solar Cells. <i>Scientific Reports</i> , 2017 , 7, 622	4.9	40
87	High Performance Colloidal Quantum Dot Photovoltaics by Controlling Protic Solvents in Ligand Exchange. <i>Advanced Energy Materials</i> , 2017 , 7, 1700301	21.8	39
86	Colloidal Single-Layer Quantum Dots with Lateral Confinement Effects on 2D Exciton. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13253-13259	16.4	39
85	Anomalous circular polarization of photoluminescence spectra of individual CdSe nanocrystals in an applied magnetic field. <i>Physical Review Letters</i> , 2009 , 102, 017402	7.4	38
84	Linearly polarized fine structure of the bright exciton state in individual CdSe nanocrystal quantum dots. <i>Physical Review B</i> , 2008 , 77,	3.3	38
83	Improvement in carrier transport properties by mild thermal annealing of PbS quantum dot solar cells. <i>Applied Physics Letters</i> , 2013 , 102, 043506	3.4	37

82	Unveiling chemical reactivity and structural transformation of two-dimensional layered nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3736-9	16.4	36
81	Highly luminescing multi-shell semiconductor nanocrystals InP/ZnSe/ZnS. <i>Applied Physics Letters</i> , 2012 , 101, 073107	3.4	36
80	III-V colloidal nanocrystals: control of covalent surfaces. <i>Chemical Science</i> , 2019 , 11, 913-922	9.4	35
79	Sensitivity and selectivity on aptamer-based assay: the determination of tetracycline residue in bovine milk. <i>Scientific World Journal, The</i> , 2012 , 2012, 159456	2.2	33
78	Energy level tuned indium arsenide colloidal quantum dot films for efficient photovoltaics. <i>Nature Communications</i> , 2018 , 9, 4267	17.4	32
77	A hydro/oxo-phobic top hole-selective layer for efficient and stable colloidal quantum dot solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 2078-2084	35.4	31
76	Efficient quantum dot-quantum dot and quantum dot-dye energy transfer in biotemplated assemblies. <i>ACS Nano</i> , 2011 , 5, 1761-8	16.7	31
75	Analysis and characterization of iron pyrite nanocrystals and nanocrystalline thin films derived from bromide anion synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6853-6861	13	30
74	Tuning Size and Size Distribution of Colloidal InAs Nanocrystals via Continuous Supply of Prenucleation Clusters on Nanocrystal Seeds. <i>Chemistry of Materials</i> , 2016 , 28, 8119-8122	9.6	29
73	A Review on Eco-Friendly Quantum Dot Solar Cells: Materials and Manufacturing Processes. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 349-358	3.8	27
72	High performance of PbSe/PbS core/shell quantum dot heterojunction solar cells: short circuit current enhancement without the loss of open circuit voltage by shell thickness control. <i>Nanoscale</i> , 2015 , 7, 17473-81	7.7	25
71	PbS Quantum Dot Solar Cells Integrated with Sol-Gel-Derived ZnO as an n-Type Charge-Selective Layer. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17374-17382	3.8	25
70	Colloidal quantum dot based solar cells: from materials to devices. <i>Nano Convergence</i> , 2017 , 4, 21	9.2	25
69	Tuning optical properties of Si quantum dots by π -conjugated capping molecules. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 653-64	4.5	24
68	A Resonance-Shifting Hybrid n-Type Layer for Boosting Near-Infrared Response in Highly Efficient Colloidal Quantum Dots Solar Cells. <i>Advanced Materials</i> , 2015 , 27, 8102-8	24	24
67	Increased open-circuit voltage in a Schottky device using PbS quantum dots with extreme confinement. <i>Applied Physics Letters</i> , 2013 , 102, 193902	3.4	22
66	Inverted Schottky quantum dot solar cells with enhanced carrier extraction and air-stability. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20799-20805	13	21
65	Origin of the Stability and Transition from Anionic to Cationic Surface Ligand Passivation of All-Inorganic Cesium Lead Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 652-658	6.4	21

64	Long-term stability of CdSe/CdZnS quantum dot encapsulated in a multi-lamellar microcapsule. <i>Nanotechnology</i> , 2015 , 26, 275602	3.4	20
63	Size Dependence of Excitation-Energy-Related Surface Trapping Dynamics in PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7517-7524	3.8	20
62	Slow colloidal growth of PbSe nanocrystals for facile morphology and size control. <i>RSC Advances</i> , 2014 , 4, 9842	3.7	20
61	Highly efficient hybrid light-emitting device using complex of CdSe/ZnS quantum dots embedded in co-polymer as an active layer. <i>Optics Express</i> , 2010 , 18, 18303-11	3.3	20
60	Atomic layer deposition effect on the electrical properties of Al ₂ O ₃ -passivated PbS quantum dot field-effect transistors. <i>Applied Physics Letters</i> , 2015 , 106, 093507	3.4	19
59	Electronic Structure of PbS Colloidal Quantum Dots on Indium Tin Oxide and Titanium Oxide. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27884-27889	3.8	19
58	Lead sulfide nanocrystal quantum dot solar cells with trenched ZnO fabricated via nanoimprinting. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3803-8	9.5	19
57	Near-infrared-sensitive bulk heterojunction solar cells using nanostructured hybrid composites of HgTe quantum dots and a low-bandgap polymer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 163-169	6.4	18
56	Artificial stimulus-response system capable of conscious response. <i>Science Advances</i> , 2021 , 7,	14.3	18
55	All-solution-processed PbS quantum dot solar modules. <i>Nanoscale</i> , 2015 , 7, 8829-34	7.7	17
54	Controlled assembly of CdSe/MWNT hybrid material and its fast photoresponse with wavelength selectivity. <i>Nanotechnology</i> , 2011 , 22, 165201	3.4	17
53	Continuous Purification of Colloidal Quantum Dots in Large-Scale Using Porous Electrodes in Flow Channel. <i>Scientific Reports</i> , 2017 , 7, 43581	4.9	16
52	Revisiting Effects of Ligand-Capped Nanocrystals in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1032-1034	20.1	16
51	Design and synthesis of photostable multi-shell Cd-free nanocrystal quantum dots for LED applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21370		16
50	Efficiency Limit of Colloidal Quantum Dot Solar Cells: Effect of Optical Interference on Active Layer Absorption. <i>ACS Energy Letters</i> , 2020 , 5, 248-251	20.1	16
49	Fine tuning of emission property of white light-emitting diodes by quantum-dot-coating on YAG:Ce nanophosphors. <i>Applied Surface Science</i> , 2016 , 379, 467-473	6.7	16
48	Fabrication of periodic nanoparticle clusters using a soft lithographic template. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4598-4602	7.1	15
47	Synthesis of colloidal InSb nanocrystals via in situ activation of InCl ₃ . <i>Dalton Transactions</i> , 2015 , 44, 16923-8	7.3	15

46	Determination of heterojunction band offsets between CdS bulk and PbS quantum dots using photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2014 , 105, 131604	3-4	14
45	Graphene/PbS quantum dot hybrid structure for application in near-infrared photodetectors. <i>Scientific Reports</i> , 2020 , 10, 12475	4-9	14
44	Environmentally benign nanocrystals: challenges and future directions. <i>Journal of Information Display</i> , 2019 , 20, 61-72	4-1	13
43	Space charge limited conduction in ultrathin PbS quantum dot solid diodes. <i>Journal of Applied Physics</i> , 2014 , 115, 054302	2-5	13
42	Continuous flow purification of nanocrystal quantum dots. <i>Nanoscale</i> , 2014 , 6, 14467-72	7-7	13
41	Facet-Specific Ligand Interactions on Ternary AgSbS Colloidal Quantum Dots. <i>Chemistry - A European Journal</i> , 2017 , 23, 17707-17713	4-8	13
40	Halide/Amine Co-Passivated Indium Phosphide Colloidal Quantum Dots in Tetrahedral Shape. <i>Angewandte Chemie</i> , 2016 , 128, 3778-3782	3-6	13
39	Direct Low-Temperature Growth of Single-Crystalline Anatase TiO ₂ Nanorod Arrays on Transparent Conducting Oxide Substrates for Use in PbS Quantum-Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10324-30	9-5	12
38	Enhancement of Hot Electron Flow in Plasmonic Nanodiodes by Incorporating PbS Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5081-5089	9-5	12
37	Origin of photoluminescence from colloidal gallium phosphide nanocrystals synthesized via a hot-injection method. <i>RSC Advances</i> , 2015 , 5, 2466-2469	3-7	12
36	Evaluation of Toxicity and Gene Expression Changes Triggered by Quantum Dots. <i>Bulletin of the Korean Chemical Society</i> , 2010 , 31, 1555-1560	1-2	12
35	Improvement of the quality of gluten-free rice pound cake using extruded rice flour. <i>Food Science and Biotechnology</i> , 2013 , 22, 173-180	3	11
34	Design Strategy of Quantum Dot Thin-Film Solar Cells. <i>Small</i> , 2020 , 16, e2002460	11	11
33	Nanosilver Colloids-Filled Photonic Crystal Arrays for Photoluminescence Enhancement. <i>Nanoscale Research Letters</i> , 2010 , 5, 1590-5	5	10
32	InP Quantum Dot-Organosilicon Nanocomposites. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 1491-1504	1-10	10
31	Hysteresis and Photoinstability Caused by Mobile Ions in Colloidal Quantum Dot Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5259-5263	6-4	9
30	A Colloidal-Quantum-Dot-Based Self-Charging System via the Near-Infrared Band. <i>Advanced Materials</i> , 2018 , 30, e1707224	24	9
29	Suppression of hydroxylation on the surface of colloidal quantum dots to enhance the open-circuit voltage of photovoltaics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4844-4849	13	9

28	Photovoltaic light absorber with spatial energy band gradient using PbS quantum dot layers. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 270-274	6.4	7
27	PbS Colloidal Quantum Dot Solar Cells With Organic Hole Transport Layers for Enhanced Carrier Separation and Ambient Stability. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 493-498	3.7	7
26	Broadband light trapping strategies for quantum-dot photovoltaic cells (>10%) and their issues with the measurement of photovoltaic characteristics. <i>Scientific Reports</i> , 2017 , 7, 17393	4.9	7
25	A relationship between the surface composition and spectroscopic properties of cesium lead bromide (CsPbBr) perovskite nanocrystals: focusing on photoluminescence efficiency. <i>Nanoscale</i> , 2020 , 12, 1563-1570	7.7	7
24	Diffusion dynamics controlled colloidal synthesis of highly monodisperse InAs nanocrystals. <i>Nature Communications</i> , 2021 , 12, 3013	17.4	7
23	Effects of Curing Temperature on the Optical and Charge Trap Properties of InP Quantum Dot Thin Films. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 263-272	1.2	6
22	Charge Transport Characterization of PbS Quantum Dot Solids for High Efficiency Solar Cells. <i>Journal of the Optical Society of Korea</i> , 2015 , 19, 272-276		5
21	Tailored growth of single-crystalline InP tetrapods. <i>Nature Communications</i> , 2021 , 12, 4454	17.4	5
20	Optical properties and carrier dynamics of CaSrSiO ₄ :Eu ³⁺ phosphors prepared by using the solid-state reaction method. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1721-1725	0.6	4
19	Polymerization of nanocrystal quantum dot-tubulin bioconjugates. <i>IEEE Transactions on Nanobioscience</i> , 2006 , 5, 239-45	3.4	3
18	Tip-Induced Strain Engineering of a Single Metal Halide Perovskite Quantum Dot. <i>ACS Nano</i> , 2021 , 15, 9057-9064	16.7	3
17	Purification of Colloidal Nanocrystals Along the Road to Highly Efficient Photovoltaic Devices. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021 , 8, 1309-1321	3.8	3
16	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
15	High performance ultraviolet photodetector based on a spray-coated nanocrystal quantum dots layer and Si photodiode. <i>Sensors and Actuators A: Physical</i> , 2018 , 273, 182-188	3.9	2
14	AC-dielectrophoretic force assisted fabrication of conducting quantum dot aggregates in the electrical breakdown-induced CNT nanogap. <i>Applied Physics Letters</i> , 2018 , 112, 133105	3.4	2
13	Graded synthetic approach for the fabrication of nanocrystal quantum dots for enhanced carrier injection in light-emitting diodes. <i>Nanotechnology</i> , 2013 , 24, 505601	3.4	2
12	Oxygen aided photoresponse enhancement of air-stable PbSe quantum dot based photoconductors. <i>Optical Materials Express</i> , 2017 , 7, 2905	2.6	2
11	Synthesis and characterization of lead selenide nanocrystal quantum dots and wires. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4347-50	1.3	2

10	Annealing effect of PbS quantum dot solar cells 2011 ,		1
9	Improved performance of nanocrystal quantum dots-based LEDs by modifying hole transport layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 432-6	1.3	1
8	Photocurrent imaging of nanocrystal quantum dots on single-walled carbon nanotube device. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4300-4	1.3	1
7	Electronic Structure and Elemental Composition of the Lead Sulfide Colloidal Quantum Dots Depending on the Types of Ligand and Post-Treatment. <i>Journal of the Korean Chemical Society</i> , 2016 , 60, 402-409		1
6	Shape-Tuned Multi-photon Emitting InP Nanotetrapod.. <i>Advanced Materials</i> , 2022 , e2110665	24	1
5	Energetic Sulfide Vapor-Processed Colloidal InAs Quantum Dot Solids for Efficient Charge Transport and Photoconduction. <i>Advanced Photonics Research</i> , 2022 , 3, 2100243	1.9	0
4	Ultimate Charge Extraction of Monolayer PbS Quantum Dot for Observation of Multiple Exciton Generation. <i>ChemPhysChem</i> , 2019 , 20, 2657-2661	3.2	
3	Facet-Specific Ligand Interactions on Ternary AgSbS ₂ Colloidal Quantum Dots.. <i>Chemistry - A European Journal</i> , 2017 , 23, 17625-17625	4.8	
2	Functional microscopy tip fabrication by an electric conductive nanowire. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3207-10	1.3	
1	Shape-Tuned Multiphoton-Emitting InP Nanotetrapods (Adv. Mater. 19/2022). <i>Advanced Materials</i> , 2022 , 34, 2270145	24	