Dong Hee Son

List of Publications by Year
in descending order

81 papers	6,389 citations	117625 34 h-index	69250 77 g-index
82 all docs	82 docs citations	82 times ranked	8155 citing authors

#	Article	IF	Citations
1	Cation Exchange Reactions in Ionic Nanocrystals. Science, 2004, 306, 1009-1012.	12.6	1,135
2	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
3	Exciton-to-Dopant Energy Transfer in Mn-Doped Cesium Lead Halide Perovskite Nanocrystals. Nano Letters, 2016, 16, 7376-7380.	9.1	560
4	Precise Control of Quantum Confinement in Cesium Lead Halide Perovskite Quantum Dots via Thermodynamic Equilibrium. Nano Letters, 2018, 18, 3716-3722.	9.1	394
5	Ultrasensitive Copper(II) Detection Using Plasmon-Enhanced and Photo-Brightened Luminescence of CdSe Quantum Dots. Analytical Chemistry, 2010, 82, 3671-3678.	6.5	259
6	[Ti₈Zr₂O₁₂(COO)₁₆] Cluster: An Ideal Inorganic Building Unit for Photoactive Metalâ€“Organic Frameworks. ACS Central Science, 2018, 4, 105-111.	11.3	204
7	Photoinduced Anion Exchange in Cesium Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2017, 139, 4358-4361.	13.7	184
8	Direct Hot-Injection Synthesis of Mn-Doped CsPbBr₃ Nanocrystals. Chemistry of Materials, 2018, 30, 2939-2944.	6.7	183
9	Doping Location-Dependent Energy Transfer Dynamics in Mn-Doped CdS/ZnS Nanocrystals. ACS Nano, 2012, 6, 583-591.	14.6	163
10	Dynamics of Excitonâ€“Mn Energy Transfer in Mn-Doped CsPbCl₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 17143-17149.	3.1	158
11	Evaporation-Induced Assembly of Quantum Dots into Nanorings. ACS Nano, 2009, 3, 173-180.	14.6	155
12	Effects of Ion Solvation and Volume Change of Reaction on the Equilibrium and Morphology in Cation-Exchange Reaction of Nanocrystals. Journal of the American Chemical Society, 2008, 130, 9550-9555.	13.7	147
13	Detailed Investigation of the Femtosecond Pumpâ^'Probe Spectroscopy of the Hydrated Electron. Journal of Physical Chemistry A, 1998, 102, 6957-6966.	2.5	142
14	Using Patterned Arrays of Metal Nanoparticles to Probe Plasmon Enhanced Luminescence of CdSe Quantum Dots. ACS Nano, 2009, 3, 1735-1744.	14.6	113
15	Solvation Dynamics of the Hydrated Electron Depends on Its Initial Degree of Electron Delocalizationâ€. Journal of Physical Chemistry A, 2002, 106, 2374-2378.	2.5	112
16	Hot Electrons Generated from Doped Quantum Dots via Upconversion of Excitons to Hot Charge Carriers for Enhanced Photocatalysis. Journal of the American Chemical Society, 2015, 137, 5549-5554.	13.7	96
17	Light-Induced Activation of Forbidden Exciton Transition in Strongly Confined Perovskite Quantum Dots. ACS Nano, 2018, 12, 12436-12443.	14.6	86
18	A Unified Electron Transfer Model for the Different Precursors and Excited States of the Hydrated Electron. Journal of Physical Chemistry A, 2001, 105, 8434-8439.	2.5	80

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19	Solvent Effects on Vibrational Coherence and Ultrafast Reaction Dynamics in the Multicolor Pumpâ˜Probe Spectroscopy of Intervalence Electron Transfer. Journal of Physical Chemistry A, 2000, 104, 10637-10644.	2.5	70
20	Influence of ligand shell ordering on dimensional confinement of cesium lead bromide (CsPbBr₃) perovskite nanoplatelets. Journal of Materials Chemistry C, 2017, 5, 8810-8818.	5.5	66
21	Light-induced magnetism in plasmonic gold nanoparticles. Nature Photonics, 2020, 14, 365-368.	31.4	65
22	Femtosecond Multicolor Pumpâ˜Probe Study of Ultrafast Electron Transfer of [(NH3)5RuIIINCRuII(CN)5]-in Aqueous Solution. Journal of Physical Chemistry A, 2002, 106, 4591-4597.	2.5	64
23	Measurement of Energy Transfer Time in Colloidal Mn-Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 4418-4423.	3.1	64
24	Intense Dark Exciton Emission from Strongly Quantum-Confined CsPbBr₃ Nanocrystals. Nano Letters, 2020, 20, 7321-7326.	9.1	53
25	Creating Effective Nanoreactors on Carbon Nanotubes with Mechanochemical Treatments for Highâ€Arealâ€Capacity Sulfur Cathodes and Lithium Anodes. Advanced Functional Materials, 2018, 28, 1800595.	14.9	52
26	Size- and temperature-dependent photoluminescence spectra of strongly confined CsPbBr₃ quantum dots. Nanoscale, 2020, 12, 13113-13118.	5.6	50
27	Delocalizing Electrons in Water with Light. Journal of Physical Chemistry A, 2001, 105, 8269-8272.	2.5	49
28	Colloidal Single-Layer Quantum Dots with Lateral Confinement Effects on 2D Exciton. Journal of the American Chemical Society, 2016, 138, 13253-13259.	13.7	49
29	Effects of Direct Solvent-Quantum Dot Interaction on the Optical Properties of Colloidal Monolayer WS₂ Quantum Dots. Nano Letters, 2017, 17, 7471-7477.	9.1	47
30	One-photon UV detrapping of the hydrated electron. Chemical Physics Letters, 2001, 342, 571-577.	2.6	44
31	Ratiometric temperature imaging using environment-insensitive luminescence of Mn-doped coreâ€“shell nanocrystals. Nanoscale, 2013, 5, 4944.	5.6	41
32	Second Harmonic Generation and Confined Acoustic Phonons in Highly Excited Semiconductor Nanocrystalsâ€. Journal of Physical Chemistry B, 2006, 110, 19884-19890.	2.6	39
33	Photoinduced Mn doping in cesium lead halide perovskite nanocrystals. Nanoscale, 2019, 11, 5247-5253.	5.6	39
34	Synthesis and Properties of Strongly Quantum-Confined Cesium Lead Halide Perovskite Nanocrystals. Accounts of Chemical Research, 2021, 54, 1399-1408.	15.6	36
35	Adsorption of 4-Methoxybenzylcyanide on Silver and Gold Surfaces Investigated by Fourier Transform Infrared Spectroscopy. The Journal of Physical Chemistry, 1994, 98, 8488-8493.	2.9	35
36	Cesium Lead Bromide (CsPbBr₃) Perovskite Quantum Dot-Based Photosensor for Chemiluminescence Immunoassays. ACS Applied Materials & Interfaces, 2021, 13, 29392-29405.	8.0	34

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37	Hot Electrons from Consecutive Excitonâ€“Mn Energy Transfer in Mn-Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 11407-11412.	3.1	33
38	Photoemission of Energetic Hot Electrons Produced via Up-Conversion in Doped Quantum Dots. Nano Letters, 2016, 16, 7270-7275.	9.1	32
39	Size-Dependent Ultrafast Magnetization Dynamics in Iron Oxide (Fe3O4) Nanocrystals. Nano Letters, 2008, 8, 571-576.	9.1	29
40	Surfactant effect on the formation of CuInSe2 nanowires in solution phase synthesis. Journal of Materials Chemistry, 2011, 21, 11618.	6.7	29
41	Energy and Charge Transfer Dynamics in Doped Semiconductor Nanocrystals. Israel Journal of Chemistry, 2012, 52, 1016-1026.	2.3	29
42	Multielectron Ionization of CdSe Quantum Dots in Intense Femtosecond Ultraviolet Light. Physical Review Letters, 2004, 92, 127406.	7.8	28
43	Size-dependent dark exciton properties in cesium lead halide perovskite quantum dots. Journal of Chemical Physics, 2020, 153, 184703.	3.0	28
44	On the determination of absorption cross section of colloidal lead halide perovskite quantum dots. Journal of Chemical Physics, 2019, 151, 154706.	3.0	26
45	Evidence for the Ligand-Assisted Energy Transfer from Trapped Exciton to Dopant in Mn-Doped CdS/ZnS Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 18226-18232.	3.1	24
46	Tuning Temperature Dependence of Dopant Luminescence via Local Lattice Strain in Core/Shell Nanocrystal Structure. Journal of Physical Chemistry C, 2012, 116, 23838-23843.	3.1	22
47	Spatially Selective Optical Tuning of Quantum Dot Thin Film Luminescence. Journal of the American Chemical Society, 2009, 131, 18204-18205.	13.7	20
48	Ultrafast Energy Transfer and Strong Dynamic Non-Condon Effect on Ligand Field Transitions by Coherent Phonon in Î³-Fe2O3Nanocrystals. Journal of the American Chemical Society, 2007, 129, 10829-10836.	13.7	19
49	Controlling Anisotropy of Quantum-Confined CsPbBr₃ Nanocrystals by Combined Use of Equilibrium and Kinetic Anisotropy. Chemistry of Materials, 2019, 31, 5655-5662.	6.7	19
50	Kinetic Monte Carlo modeling of the equilibrium-based size control of CsPbBr3 perovskite quantum dots in strongly confined regime. Computers and Chemical Engineering, 2020, 139, 106872.	3.8	18
51	Energetic hot electrons from exciton-to-hot electron upconversion in Mn-doped semiconductor nanocrystals. Journal of Chemical Physics, 2019, 151, 120901.	3.0	17
52	Efficient Redox-Neutral Photocatalytic Formate to Carbon Monoxide Conversion Enabled by Long-Range Hot Electron Transfer from Mn-Doped Quantum Dots. Journal of the American Chemical Society, 2021, 143, 10292-10300.	13.7	17
53	Time-Resolved Study of Surface Spin Effect on Spinâ^'Lattice Relaxation in Fe₃O₄ Nanocrystals. Journal of the American Chemical Society, 2009, 131, 9146-9147.	13.7	16
54	Orientational Control of Colloidal 2D-Layered Transition Metal Dichalcogenide Nanodiscs via Unusual Electrokinetic Response. ACS Nano, 2015, 9, 8037-8043.	14.6	16

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55	Photoinduced Separation of Strongly Interacting 2-D Layered TiS₂ Nanodiscs in Solution. Journal of Physical Chemistry C, 2014, 118, 12568-12573.	3.1	14
56	Nonplasmonic Hotâ€Electron Photocurrents from Mnâ€Doped Quantum Dots in Photoelectrochemical Cells. ChemPhysChem, 2016, 17, 660-664.	2.1	14
57	Breaking the short-range proximity requirement in quantum dot/molecular catalyst hybrids for CO₂ reduction via long-range hot electron sensitization. Journal of Materials Chemistry A, 2020, 8, 12984-12989.	10.3	14
58	Fourier-transform infrared spectroscopic study of acetonitrile adsorbed on silica-supported nickel and nickel oxide. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 837.	1.7	13
59	In Situ Study of Room-Temperature Oxidation Kinetics of Colloidal Co Nanocrystals Investigated by Faraday Rotation Measurement. Journal of Physical Chemistry C, 2011, 115, 92-96.	3.1	12
60	Organicâ€“inorganic nanohybrid nonvolatile memory transistors for flexible electronics. Journal of Materials Chemistry, 2012, 22, 19007.	6.7	12
61	Photons and charges from colloidal doped semiconductor quantum dots. Journal of Materials Chemistry C, 2019, 7, 14788-14797.	5.5	12
62	Magnetic Effect of Dopants on Bright and Dark Excitons in Strongly Confined Mn-Doped CsPbI₃ Quantum Dots. Nano Letters, 2021, 21, 9543-9550.	9.1	12
63	Strongly Nonlinear Dependence of Energy Transfer Rate on sp² Carbon Content in Reduced Graphene Oxide-Quantum Dot Hybrid Structures. Journal of Physical Chemistry Letters, 2015, 6, 44-47.	4.6	11
64	Anisotropic Electronâ€“Phonon Coupling in Colloidal Layered TiS₂ Nanodiscs Observed via Coherent Acoustic Phonons. Journal of Physical Chemistry C, 2015, 119, 7436-7442.	3.1	11
65	Suppression of Quenching in Plasmon-Enhanced Luminescence via Rapid Intraparticle Energy Transfer in Doped Quantum Dots. ACS Nano, 2013, 7, 10544-10551.	14.6	8
66	The connection between plasmon decay dynamics and the surface enhanced Raman spectroscopy background: Inelastic scattering from non-thermal and hot carriers. Journal of Applied Physics, 2021, 129, .	2.5	8
67	Cation Exchange Reactions in Ionic Nanocrystals.. ChemInform, 2005, 36, no.	0.0	6
68	Time-Dependent Elastic Properties and Lattice Temperature of the Photoexcited Iron Oxide Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 10125-10129.	3.1	6
69	Size Effect on Chemical Tuning of Spinâ^'Lattice Relaxation Dynamics in Superparamagnetic Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 9713-9719.	3.1	6
70	Controlling Quantum Confinement and Magnetic Doping of Cesium Lead Halide Perovskite Nanocrystals. Journal of the Korean Ceramic Society, 2018, 55, 515-526.	2.3	6
71	Hot electrons generated from Mnâ€doped quantum dots via upconversion for photocatalysis applications. Bulletin of the Korean Chemical Society, 2022, 43, 492-500.	1.9	6
72	Active Tuning of Plasmon Damping via Light Induced Magnetism. Nano Letters, 2022, 22, 5120-5126.	9.1	6

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73	In situ optical measurement of the rapid Li intercalation and deintercalation dynamics in colloidal 2D layered TiS₂nanodiscs. Nanoscale, 2016, 8, 11248-11255.	5.6	5
74	Energy transfer cassettes in silica nanoparticles target intracellular organelles. Organic and Biomolecular Chemistry, 2011, 9, 3871.	2.8	4
75	Modeling and size control of CsPbBr₃ perovskite quantum dots. , 2020, , .		3
76	Temperatureâ€dependent Energy Transfer in Mnâ€doped <scp>CdS</scp>/<scp>ZnS</scp> Nanocrystals[#]. Bulletin of the Korean Chemical Society, 2015, 36, 757-761.	1.9	3
77	Effect of Surfactant and Solvent on Spinâ€“Lattice Relaxation Dynamics of Magnetic Nanocrystals. Journal of Physical Chemistry B, 2013, 117, 4399-4405.	2.6	1
78	Strongly Quantum Confined Metal Halide Perovskite Nanocrystals. Springer Series in Materials Science, 2020, , 19-49.	0.6	1
79	An Infrared Study of Adsorption of 1-Propanethiol on Copper. Journal of Colloid and Interface Science, 1993, 158, 502-504.	9.4	0
80	Dynamics of Spin-Lattice Relaxation in CoxFe3-xO4 Nanocrystals. , 2010, , .		0
81	Femtosecond Pump-Probe Spectroscopy on the Equilibrated Aqueous Solvated Electron: Isotope Effects and Saturation Studies. Springer Series in Chemical Physics, 1998, , 583-585.	0.2	0