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	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
2	Active Tuning of Plasmon Damping via Light Induced Magnetism. Nano Letters, 2022, 22, 5120-5126.	9.1	6
3	Synthesis and Properties of Strongly Quantum-Confined Cesium Lead Halide Perovskite Nanocrystals. Accounts of Chemical Research, 2021, 54, 1399-1408.	15.6	36
4	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
5	Cesium Lead Bromide (CsPbBr₃) Perovskite Quantum Dot-Based Photosensor for Chemiluminescence Immunoassays. ACS Applied Materials & Interfaces, 2021, 13, 29392-29405.	8.0	34
6	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
7	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
8	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
9	Size-dependent dark exciton properties in cesium lead halide perovskite quantum dots. Journal of Chemical Physics, 2020, 153, 184703.	3.0	28
10	Modeling and size control of CsPbBr₃ perovskite quantum dots. , 2020, , .		3
11	Intense Dark Exciton Emission from Strongly Quantum-Confined CsPbBr₃ Nanocrystals. Nano Letters, 2020, 20, 7321-7326.	9.1	53
12	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
13	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
14	Size- and temperature-dependent photoluminescence spectra of strongly confined CsPbBr₃ quantum dots. Nanoscale, 2020, 12, 13113-13118.	5.6	50
15	Light-induced magnetism in plasmonic gold nanoparticles. Nature Photonics, 2020, 14, 365-368.	31.4	65
16	Strongly Quantum Confined Metal Halide Perovskite Nanocrystals. Springer Series in Materials Science, 2020, , 19-49.	0.6	1
17	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
18	On the determination of absorption cross section of colloidal lead halide perovskite quantum dots. Journal of Chemical Physics, 2019, 151, 154706.	3.0	26

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19	Energetic hot electrons from exciton-to-hot electron upconversion in Mn-doped semiconductor nanocrystals. Journal of Chemical Physics, 2019, 151, 120901.	3.0	17
20	Photoinduced Mn doping in cesium lead halide perovskite nanocrystals. Nanoscale, 2019, 11, 5247-5253.	5.6	39
21	Photons and charges from colloidal doped semiconductor quantum dots. Journal of Materials Chemistry C, 2019, 7, 14788-14797.	5.5	12
22	Direct Hot-Injection Synthesis of Mn-Doped CsPbBr₃ Nanocrystals. Chemistry of Materials, 2018, 30, 2939-2944.	6.7	183
23	Precise Control of Quantum Confinement in Cesium Lead Halide Perovskite Quantum Dots via Thermodynamic Equilibrium. Nano Letters, 2018, 18, 3716-3722.	9.1	394
24	[Ti₈Zr₂O₁₂(COO)₁₆] Cluster: An Ideal Inorganic Building Unit for Photoactive Metalâ€“Organic Frameworks. ACS Central Science, 2018, 4, 105-111.	11.3	204
25	Light-Induced Activation of Forbidden Exciton Transition in Strongly Confined Perovskite Quantum Dots. ACS Nano, 2018, 12, 12436-12443.	14.6	86
26	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
27	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
28	Photoinduced Anion Exchange in Cesium Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2017, 139, 4358-4361.	13.7	184
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	Dynamics of Excitonâ€“Mn Energy Transfer in Mn-Doped CsPbCl₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 17143-17149.	3.1	158
31	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
32	Nonplasmonic Hotâ€Electron Photocurrents from Mnâ€Doped Quantum Dots in Photoelectrochemical Cells. ChemPhysChem, 2016, 17, 660-664.	2.1	14
33	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
34	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
35	Photoemission of Energetic Hot Electrons Produced via Up-Conversion in Doped Quantum Dots. Nano Letters, 2016, 16, 7270-7275.	9.1	32
36	Exciton-to-Dopant Energy Transfer in Mn-Doped Cesium Lead Halide Perovskite Nanocrystals. Nano Letters, 2016, 16, 7376-7380.	9.1	560

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37	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
38	Orientational Control of Colloidal 2D-Layered Transition Metal Dichalcogenide Nanodiscs via Unusual Electrokinetic Response. ACS Nano, 2015, 9, 8037-8043.	14.6	16
39	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
40	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
41	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
42	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
43	Photoinduced Separation of Strongly Interacting 2-D Layered TiS₂ Nanodiscs in Solution. Journal of Physical Chemistry C, 2014, 118, 12568-12573.	3.1	14
44	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
45	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
46	Ratiometric temperature imaging using environment-insensitive luminescence of Mn-doped coreâ€“shell nanocrystals. Nanoscale, 2013, 5, 4944.	5.6	41
47	Energy and Charge Transfer Dynamics in Doped Semiconductor Nanocrystals. Israel Journal of Chemistry, 2012, 52, 1016-1026.	2.3	29
48	Organicâ€“inorganic nanohybrid nonvolatile memory transistors for flexible electronics. Journal of Materials Chemistry, 2012, 22, 19007.	6.7	12
49	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
50	Doping Location-Dependent Energy Transfer Dynamics in Mn-Doped CdS/ZnS Nanocrystals. ACS Nano, 2012, 6, 583-591.	14.6	163
51	Surfactant effect on the formation of CuInSe2 nanowires in solution phase synthesis. Journal of Materials Chemistry, 2011, 21, 11618.	6.7	29
52	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
53	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
54	Energy transfer cassettes in silica nanoparticles target intracellular organelles. Organic and Biomolecular Chemistry, 2011, 9, 3871.	2.8	4

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55	Dynamics of Spin-Lattice Relaxation in CoxFe3-xO4 Nanocrystals. , 2010, , .		0
56	Ultrasensitive Copper(II) Detection Using Plasmon-Enhanced and Photo-Brightened Luminescence of CdSe Quantum Dots. Analytical Chemistry, 2010, 82, 3671-3678.	6.5	259
57	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
58	Measurement of Energy Transfer Time in Colloidal Mn-Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 4418-4423.	3.1	64
59	Evaporation-Induced Assembly of Quantum Dots into Nanorings. ACS Nano, 2009, 3, 173-180.	14.6	155
60	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
61	Spatially Selective Optical Tuning of Quantum Dot Thin Film Luminescence. Journal of the American Chemical Society, 2009, 131, 18204-18205.	13.7	20
62	Using Patterned Arrays of Metal Nanoparticles to Probe Plasmon Enhanced Luminescence of CdSe Quantum Dots. ACS Nano, 2009, 3, 1735-1744.	14.6	113
63	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
64	Size-Dependent Ultrafast Magnetization Dynamics in Iron Oxide (Fe3O4) Nanocrystals. Nano Letters, 2008, 8, 571-576.	9.1	29
65	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
66	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
67	Second Harmonic Generation and Confined Acoustic Phonons in Highly Excited Semiconductor Nanocrystalsâ€. Journal of Physical Chemistry B, 2006, 110, 19884-19890.	2.6	39
68	Cation Exchange Reactions in Ionic Nanocrystals.. ChemInform, 2005, 36, no.	0.0	6
69	Cation Exchange Reactions in Ionic Nanocrystals. Science, 2004, 306, 1009-1012.	12.6	1,135
70	Multielectron Ionization of CdSe Quantum Dots in Intense Femtosecond Ultraviolet Light. Physical Review Letters, 2004, 92, 127406.	7.8	28
71	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
72	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

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73	Delocalizing Electrons in Water with Light. Journal of Physical Chemistry A, 2001, 105, 8269-8272.	2.5	49
74	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
75	One-photon UV detrapping of the hydrated electron. Chemical Physics Letters, 2001, 342, 571-577.	2.6	44
76	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
77	Detailed Investigation of the Femtosecond Pumpâ^'Probe Spectroscopy of the Hydrated Electron. Journal of Physical Chemistry A, 1998, 102, 6957-6966.	2.5	142
78	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
79	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
80	An Infrared Study of Adsorption of 1-Propanethiol on Copper. Journal of Colloid and Interface Science, 1993, 158, 502-504.	9.4	0
81	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