

# Masaki Saruyama

## List of Publications by Year in descending order

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37  
papers

1,320  
citations

304743

22  
h-index

345221

36  
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37  
all docs

37  
docs citations

37  
times ranked

1866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Charged Excitons and Biexcitons in CsPbBr <sub>3</sub> Perovskite Nanocrystals Revealed by Femtosecond Transient-Absorption and Single-Dot Luminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1413-1418.	4.6	149
2	Spontaneous Formation of Wurtzite-CdS/Zinc Blende-CdTe Heterodimers through a Partial Anion Exchange Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 17598-17601.	13.7	105
3	Drastic Structural Transformation of Cadmium Chalcogenide Nanoparticles Using Chloride Ions and Surfactants. <i>Journal of the American Chemical Society</i> , 2010, 132, 3280-3282.	13.7	77
4	Impact of Postsynthetic Surface Modification on Photoluminescence Intermittency in Formamidinium Lead Bromide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6041-6047.	4.6	67
5	Hot Biexciton Effect on Optical Gain in CsPbI <sub>3</sub> Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2222-2228.	4.6	67
6	Boosting photocatalytic overall water splitting by Co doping into Mn <sub>3</sub> O <sub>4</sub> nanoparticles as oxygen evolution cocatalysts. <i>Nanoscale</i> , 2018, 10, 10420-10427.	5.6	56
7	Suppression of Trion Formation in CsPbBr <sub>3</sub> Perovskite Nanocrystals by Postsynthetic Surface Modification. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22188-22193.	3.1	54
8	Determinants of crystal structure transformation of ionic nanocrystals in cation exchange reactions. <i>Science</i> , 2021, 373, 332-337.	12.6	50
9	Anisotropically Phase-Segregated PdCoPd Sulfide Nanoparticles Formed by Fusing Two CoPd Sulfide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1713-1715.	13.8	49
10	Large-Scale Synthesis of High-Quality Metal Sulfide Semiconductor Quantum Dots with Tunable Surface Plasmon Resonance Frequencies. <i>Chemistry - A European Journal</i> , 2012, 18, 9230-9238.	3.3	49
11	Core-Shell CsPbBr <sub>3</sub> @CdS Quantum Dots with Enhanced Stability and Photoluminescence Quantum Yields for Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2020, 3, 7563-7571.	5.0	45
12	Transformations of Ionic Nanocrystals via Full and Partial Ion Exchange Reactions. <i>Accounts of Chemical Research</i> , 2021, 54, 765-775.	15.6	43
13	Quantized Auger recombination of biexcitons in CdSe nanorods studied by time-resolved photoluminescence and transient-absorption spectroscopy. <i>Physical Review B</i> , 2011, 83, .	3.2	41
14	Luminescence Fine Structures in Single Lead Halide Perovskite Nanocrystals: Size Dependence of the Exciton-Phonon Coupling. <i>Nano Letters</i> , 2021, 21, 7206-7212.	9.1	39
15	Ultrafast dynamics and single particle spectroscopy of AuCdSe nanorods. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2141.	2.8	37
16	Seed-mediated synthesis of metal sulfide patchy nanoparticles. <i>Nanoscale</i> , 2009, 1, 225.	5.6	35
17	Observation of positive and negative trions in organic-inorganic hybrid perovskite nanocrystals. <i>Physical Review Materials</i> , 2018, 2, .	2.4	35
18	Effect of A-Site Cation on Photoluminescence Spectra of Single Lead Bromide Perovskite Nanocrystals. <i>Nano Letters</i> , 2020, 20, 4022-4028.	9.1	29

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19	CdS Nanoparticles Exhibiting Quantum Size Effect by Dispersion on TiO <sub>2</sub> : Photocatalytic H <sub>2</sub> Evolution and Photoelectrochemical Measurements. Bulletin of the Chemical Society of Japan, 2009, 82, 528-535.	3.2	27
20	Phase segregated Cu <sub>2-x</sub> Se/Ni <sub>3</sub> Se <sub>4</sub> bimetallic selenide nanocrystals formed through the cation exchange reaction for active water oxidation precatalysts. Chemical Science, 2020, 11, 1523-1530.	7.4	26
21	Coulomb-Enhanced Radiative Recombination of Biexcitons in Single Giant-Shell CdSe/CdS Core/Shell Nanocrystals. Journal of Physical Chemistry Letters, 2017, 8, 1961-1966.	4.6	24
22	Light-stimulated carrier dynamics of CuInS <sub>2</sub> /CdS heterotetrapod nanocrystals. Nanoscale, 2016, 8, 9517-9520.	5.6	22
23	Reduction of Optical Gain Threshold in CsPbI <sub>3</sub> Nanocrystals Achieved by Generation of Asymmetric Hot-Biexcitons. Nano Letters, 2020, 20, 3905-3910.	9.1	22
24	Phase-segregated NiP <sub>x</sub> @FeP <sub>y</sub> O <sub>z</sub> core@shell nanoparticles: ready-to-use nanocatalysts for electro- and photo-catalytic water oxidation through <i>in situ</i> activation by structural transformation and spontaneous ligand removal. Chemical Science, 2018, 9, 4830-4836.	7.4	21
25	Strong spin-orbit coupling inducing Autler-Townes effect in lead halide perovskite nanocrystals. Nature Communications, 2021, 12, 3026.	12.8	17
26	Size-controlled quantum dots reveal the impact of intraband transitions on high-order harmonic generation in solids. Nature Physics, 2022, 18, 874-878.	16.7	17
27	CdPd sulfide heterostructured nanoparticles with metal sulfide seed-dependent morphologies. Chemical Communications, 2009, , 2724.	4.1	16
28	Bridging electrocatalyst and cocatalyst studies for solar hydrogen production <i>via</i> water splitting. Chemical Science, 2022, 13, 2824-2840.	7.4	15
29	Investigation on photo-induced charge separation in CdS/CdTe nanopencils. Chemical Science, 2014, 5, 3831-3835.	7.4	12
30	Self-activated Rh <sup>II</sup> /Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. Chemical Science, 2020, 11, 6862-6867.	7.4	12
31	<i>In Situ</i> Control of Crystallinity of 3D Colloidal Crystals by Tuning the Growth Kinetics of Nanoparticle Building Blocks. Journal of the American Chemical Society, 2022, 144, 5871-5877.	13.7	12
32	Anisotropically Phase-segregated Co <sub>9</sub> S <sub>8</sub> /Pd <sub>x</sub> Nanoacorns: Stability Improvement and New Heterostructures. Chemistry Letters, 2007, 36, 490-491.	1.3	11
33	Interference effects in high-order harmonics from colloidal perovskite nanocrystals excited by an elliptically polarized laser. Physical Review Materials, 2021, 5, .	2.4	11
34	Synthesis and Structure-specific Functions of Patchy Nanoparticles. Chemistry Letters, 2009, 38, 194-199.	1.3	8
35	Ionization and Neutralization Dynamics of CsPbBr <sub>3</sub> Perovskite Nanocrystals Revealed by Double-Pump Transient Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 4731-4736.	4.6	8
36	Crystal structure-selective formation and carrier dynamics of type-II CdS@Cu <sub>3</sub> SnS <sub>16</sub> heterodimers. Journal of Materials Chemistry C, 2013, 1, 3391.	5.5	7

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37	Formation of Layer-by-Layer Assembled Cocatalyst Films of S <sup>2+</sup> -Stabilized Ni <sub>3</sub> S <sub>4</sub> Nanoparticles for Hydrogen Evolution Reaction. ChemNanoMat, 2017, 3, 764-771.	2.8	5