

Toshiyuki Ihara

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Dynamics of Charged Excitons and Biexcitons in CsPbBr ₃ Perovskite Nanocrystals Revealed by Femtosecond Transient-Absorption and Single-Dot Luminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1413-1418.	2.1	149
2	High-Performance CsPb _{1-x} Sn _x Br ₃ Perovskite Quantum Dots for Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13650-13654.	7.2	133
3	High-Performance CsPb _{1-x} Sn _x Br ₃ Perovskite Quantum Dots for Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2017, 129, 13838-13842.	1.6	41
4	A Stable, Soluble, and Crystalline Supramolecular System with a Triplet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4261-4265.	7.2	40
5	Charge Injection at the Heterointerface in Perovskite CH ₃ NH ₃ PbI ₃ Solar Cells Studied by Simultaneous Microscopic Photoluminescence and Photocurrent Imaging Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3186-3191.	2.1	38
6	Spectral diffusion of neutral and charged exciton transitions in single CdSe/ZnS nanocrystals due to quantum-confined Stark effect. <i>Physical Review B</i> , 2014, 90, .	1.1	24
7	Coulomb-Enhanced Radiative Recombination of Biexcitons in Single Giant-Shell CdSe/CdS Core/Shell Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1961-1966.	2.1	24
8	Time-resolved photoluminescence measurements for determining voltage-dependent charge-separation efficiencies of subcells in triple-junction solar cells. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	21
9	Impact of surface ligands on the photocurrent enhancement due to multiple exciton generation in close-packed nanocrystal thin films. <i>Chemical Science</i> , 2014, 5, 2696.	3.7	19
10	Absorption cross-section spectrum of single CdSe/ZnS nanocrystals revealed through photoluminescence excitation spectroscopy. <i>Physical Review B</i> , 2015, 92, .	1.1	19
11	Microscopic photoluminescence and photocurrent imaging spectroscopy of InAs nanostructures: Identification of photocarrier generation sites for intermediate-band solar cells. <i>Physical Review B</i> , 2014, 89, .	1.1	17
12	Thermal-equilibrium relation between the optical emission and absorption spectra of a doped semiconductor quantum well. <i>Physical Review B</i> , 2009, 80, .	1.1	16
13	Biexciton cascade emission reveals absolute absorption cross section of single semiconductor nanocrystals. <i>Physical Review B</i> , 2016, 93, .	1.1	16
14	Simultaneously measured photoluminescence lifetime and quantum yield of two-photon cascade emission on single CdSe/ZnS nanocrystals. <i>Physical Review B</i> , 2017, 95, .	1.1	15
15	One-Dimensional Band-Edge Absorption in a Doped Quantum Wire. <i>Physical Review Letters</i> , 2007, 99, 126803.	2.9	14
16	Spectral Diffusion of Emissions of Excitons and Trions in Single CdSe/ZnS Nanocrystals: Charge Fluctuations in and around Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23772-23779.	1.5	14
17	Delocalized and localized charged excitons in single CdSe/CdS dot-in-rods revealed by polarized photoluminescence blinking. <i>Physical Review B</i> , 2014, 90, .	1.1	13
18	Enhanced radiative recombination rate for electron-hole droplets in a silicon photonic crystal nanocavity. <i>Physical Review B</i> , 2017, 96, .	1.1	8

#	ARTICLE	IF	CITATIONS
19	Superior properties in room-temperature colloidal-dot quantum emitters revealed by ultralow-dark-count detections of temporally-purified single photons. Scientific Reports, 2019, 9, 15941.	1.6	7
20	Carrier-density-dependent increase and suppression of optical gain in T-shaped quantum-wire lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2841-2843.	0.8	3
21	Temperature and light-intensity dependence of upconverted photocurrent generation in shallow InAs quantum structures. Japanese Journal of Applied Physics, 2014, 53, 05FV01.	0.8	3
22	Determining subcell carrier-collection efficiencies of triple-junction solar cells using time-resolved photoluminescence. , 2015, , .		3
23	Evaluation of subcell power conversion efficiencies of radiation-damaged triple-junction solar cells using photoluminescence decays. Progress in Photovoltaics: Research and Applications, 2017, 25, 1005-1014.	4.4	3
24	Fluorescent Radiation Thermometry at Cryogenic Temperatures Based on Detailed Balance Relation. Applied Physics Express, 2013, 6, 056602.	1.1	1
25	Photoluminescence excitation spectra of one-dimensional electron systems in an n-type doped quantum wire. AIP Conference Proceedings, 2005, , .	0.3	0
26	Gain Characteristics of Coulomb-Correlated Quantum Wire. , 2007, , .		0
27	Density tuning of one-dimensional electron gas in a T-shaped quantum wire. , 2007, , .		0
28	Photoluminescence blinking and spectral diffusion of single CdSe/ZnS nanocrystals: charge fluctuation effects. Proceedings of SPIE, 2016, , .	0.8	0
29	Impact of a time gate to the purity of single photons emitted from colloidal quantum dots. , 2019, , .		0