

Takumi Yamada

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,353
citations

535685

17
h-index

759306

22
g-index

25
all docs

25
docs citations

25
times ranked

2148
citing authors

#	ARTICLE	IF	CITATIONS
1	LiNbO ₃ -type Polar Antiferromagnet InVO ₃ Synthesized under High-Pressure Conditions. <i>Angewandte Chemie - International Edition</i> , 2022, , .	7.2	1
2	Optimized carrier extraction at interfaces for 23.6% efficient tin-lead perovskite solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2096-2107.	15.6	172
3	Anti-Stokes photoluminescence from nanostructures embedded in a crystal. <i>Physical Review Materials</i> , 2022, 6, .	0.9	11
4	Light emission from halide perovskite semiconductors: bulk crystals, thin films, and nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 383001.	1.3	17
5	Luminescence Fine Structures in Single Lead Halide Perovskite Nanocrystals: Size Dependence of the Exciton-Phonon Coupling. <i>Nano Letters</i> , 2021, 21, 7206-7212.	4.5	39
6	Mixed lead-tin perovskite films with $\tau \approx 7 \times 10^{-7}$ s charge carrier lifetimes realized by maltol post-treatment. <i>Chemical Science</i> , 2021, 12, 13513-13519.	3.7	36
7	Impact of spin-orbit splitting on two-photon absorption spectra in a halide perovskite single crystal. <i>Physical Review B</i> , 2021, 103, .	1.1	14
8	Photon recycling in perovskite CH ₃ NH ₃ PbX ₃ (X = I, Br, Cl) bulk single crystals and polycrystalline films. <i>Journal of Luminescence</i> , 2020, 220, 116987.	1.5	33
9	Phonon, thermal, and thermo-optical properties of halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26069-26087.	1.3	23
10	Highly Luminescent CsPbBr ₃ @Cs ₄ PbBr ₆ Nanocrystals and Their Application in Electroluminescent Emitters. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10196-10202.	2.1	30
11	Effect of A-Site Cation on Photoluminescence Spectra of Single Lead Bromide Perovskite Nanocrystals. <i>Nano Letters</i> , 2020, 20, 4022-4028.	4.5	29
12	Optical responses of lead halide perovskite semiconductors. <i>Semiconductor Science and Technology</i> , 2020, 35, 093001.	1.0	11
13	Upconverted excitonic photoluminescence from a two-dimensional lead-halide perovskite. <i>Journal of Chemical Physics</i> , 2019, 151, 234709.	1.2	11
14	Up-converted photoluminescence from CsCH ₃ NH ₃ PbBr ₃ nanocrystals. <i>Physical Review Materials</i> , 2019, 3, .	0.9	32
15	Excitonic enhancement of optical nonlinearities in perovskite CH ₃ NH ₃ PbBr ₃ single crystals. <i>Physical Review Materials</i> , 2019, 3, .	0.9	32
16	Near-Band-Edge Optical Responses of CsCH ₃ NH ₃ PbBr ₃ Single Crystals: Photon Recycling of Excitonic Luminescence. <i>Physical Review Letters</i> , 2018, 120, 057404.	2.9	79
17	Photon Emission and Reabsorption Processes in CsCH ₃ NH ₃ PbBr ₃ Single Crystals Revealed by Time-Resolved Two-Photon-Ex. <i>Physical Review Applied</i> , 2017, 7, .	1.5	116
18	Free Carrier Radiative Recombination and Photon Recycling in Lead Halide Perovskite Solar Cell Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1129-1140.	2.0	65

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19	Photocarrier Recombination and Injection Dynamics in Long-Term Stable Lead-Free CH ₃ NH ₃ SnI ₃ Perovskite Thin Films and Solar Cells. Journal of Physical Chemistry C, 2017, 121, 16158-16165.	1.5	90
20	Impact of photon recycling on carrier recombination processes in CH ₃ NH ₃ PbBr ₃ single crystals revealed by time-resolved two-photon-excitation microscopy. , 2017, , .		0
21	Interfacial Charge-Carrier Trapping in CH ₃ NH ₃ PbI ₃ -Based Heterolayered Structures Revealed by Time-Resolved Photoluminescence Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 1972-1977.	2.1	58
22	Fast Free-Carrier Diffusion in CH ₃ NH ₃ PbBr ₃ Single Crystals Revealed by Time-Resolved One- and Two-Photon Excitation Photoluminescence Spectroscopy. Advanced Electronic Materials, 2016, 2, 1500290.	2.6	111
23	Dynamic Optical Properties of CH ₃ NH ₃ PbI ₃ Single Crystals As Revealed by One- and Two-Photon Excited Photoluminescence Measurements. Journal of the American Chemical Society, 2015, 137, 10456-10459.	6.6	335
24	LiNbO ₃ -type Polar Antiferromagnet InVO ₃ Synthesized under High-Pressure Conditions. Angewandte Chemie, 0, , .	1.6	0