

Matthew J Crane

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1658536/publications.pdf>

Version: 2024-02-01

20
papers

688
citations

687363

13
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1405
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetism and Spin-Polarized Luminescence in Lead-Free CsEuCl ₃ Perovskite Nanocrystals and Thin Films. ACS Nano, 2022, 16, 2569-2576.	14.6	16
2	Coherent Spin Dynamics in Vapor-Deposited CsPbBr ₃ Perovskite Thin Films. Chemistry of Materials, 2022, 34, 1937-1945.	6.7	7
3	Ubiquitous Near-Band-Edge Defect State in Rare-Earth-Doped Lead-Halide Perovskites. Chemistry of Materials, 2022, 34, 3759-3769.	6.7	11
4	Laser-Driven Growth of Semiconductor Nanowires from Colloidal Nanocrystals. ACS Nano, 2021, 15, 8653-8662.	14.6	6
5	Coherent Spin Precession and Lifetime-Limited Spin Dephasing in CsPbBr ₃ Perovskite Nanocrystals. Nano Letters, 2020, 20, 8626-8633.	9.1	36
6	speciation and energy-transfer dynamics in quantum-cutting Yb ³⁺ -doped CsPb(Cl _{1-x} Br _x) ₃ Perovskite Nanocrystals: Implications for Solar Downconversion. Journal of Physical Chemistry C, 2019, 123, 12474-12484.	2.4	33
7	Optically oriented attachment of nanoscale metal-semiconductor heterostructures in organic solvents via photonic nanosoldering. Nature Communications, 2019, 10, 4942.	12.8	8
8	Single-Source Vapor Deposition of Quantum-Cutting Yb ³⁺ :CsPb(Cl _{1-x} Br _x) ₃ and Other Complex Metal-Halide Perovskites. ACS Applied Energy Materials, 2019, 2, 4560-4565.	5.1	44
9	Detailed-balance analysis of Yb ³⁺ :CsPb(Cl _{1-x} Br _x) ₃ quantum-cutting layers for high-efficiency photovoltaics under real-world conditions. Energy and Environmental Science, 2019, 12, 2486-2495.	30.8	39
10	Photoluminescence Saturation in Quantum-Cutting Yb ³⁺ -Doped CsPb(Cl _{1-x} Br _x) ₃ Perovskite Nanocrystals: Implications for Solar Downconversion. Journal of Physical Chemistry C, 2019, 123, 12474-12484.	3.1	47
11	Single-source flash sublimation of metal-halide semiconductors. , 2019, , .		3
12	Effect of Surface Passivation on Nanodiamond Crystallinity. Journal of Physical Chemistry C, 2018, 122, 8573-8580.	3.1	24
13	Optomechanical Thermometry of Nanoribbon Cantilevers. Journal of Physical Chemistry C, 2018, 122, 7525-7532.	3.1	17
14	Photothermal effects during nanodiamond synthesis from a carbon aerogel in a laser-heated diamond anvil cell. Diamond and Related Materials, 2018, 87, 134-142.	3.9	12
15	Photothermal Heating and Cooling of Nanostructures. Chemistry - an Asian Journal, 2018, 13, 2575-2586.	3.3	13
16	Rapid synthesis of transition metal dichalcogenide-carbon aerogel composites for supercapacitor electrodes. Microsystems and Nanoengineering, 2017, 3, 17032.	7.0	48
17	Mass Transport in Nanowire Synthesis: An Overview of Scalable Nanomanufacturing. Journal of Materials Science and Technology, 2015, 31, 523-532.	10.7	7
18	Laser refrigeration of hydrothermal nanocrystals in physiological media. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15024-15029.	7.1	82

#	ARTICLE	IF	CITATIONS
19	Annealing temperature dependence of the efficiency and vertical phase segregation of polymer/polymer bulk heterojunction photovoltaic cells. Applied Physics Letters, 2014, 104, .	3.3	22
20	Beyond Fullerenes: Design of Nonfullerene Acceptors for Efficient Organic Photovoltaics. Journal of the American Chemical Society, 2014, 136, 14589-14597.	13.7	213