

Alexandra Brumberg

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

912
citations

687363

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22
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1609
citing authors

#	ARTICLE	IF	CITATIONS
1	Disphenoidal Zero-Dimensional Lead, Tin, and Germanium Halides: Highly Emissive Singlet and Triplet Self-Trapped Excitons and X-ray Scintillation. <i>Journal of the American Chemical Society</i> , 2019, 141, 9764-9768.	13.7	336
2	Photoinduced, reversible phase transitions in all-inorganic perovskite nanocrystals. <i>Nature Communications</i> , 2019, 10, 504.	12.8	121
3	Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 19728-19735.	13.7	79
4	Material Dimensionality Effects on Electron Transfer Rates Between CsPbBr ₃ and CdSe Nanoparticles. <i>Nano Letters</i> , 2018, 18, 4771-4776.	9.1	49
5	Semiconductor Nanoplatelet Excimers. <i>Nano Letters</i> , 2018, 18, 6948-6953.	9.1	46
6	Bright Silicon Nanocrystals from a Liquid Precursor: Quasi-Direct Recombination with High Quantum Yield. <i>ACS Nano</i> , 2020, 14, 3858-3867.	14.6	43
7	Determination of the In-Plane Exciton Radius in 2D CdSe Nanoplatelets via Magneto-optical Spectroscopy. <i>ACS Nano</i> , 2019, 13, 8589-8596.	14.6	35
8	Synthesis of Type I PbSe/CdSe Dot-on-Plate Heterostructures with Near-Infrared Emission. <i>Journal of the American Chemical Society</i> , 2019, 141, 5092-5096.	13.7	25
9	Area and thickness dependence of Auger recombination in nanoplatelets. <i>Journal of Chemical Physics</i> , 2020, 153, 054104.	3.0	25
10	Best Face Forward: Crystal-Face Competition at the Ice-Water Interface. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7972-7980.	2.6	21
11	Signatures of Coherent Phonon Transport in Ultralow Thermal Conductivity Two-Dimensional Ruddlesden-Popper Phase Perovskites. <i>ACS Nano</i> , 2021, 15, 4165-4172.	14.6	21
12	Very Robust Spray-Synthesized CsPbI ₃ Quantum Emitters with Ultrahigh Room-Temperature Cavity-Free Brightness and Self-Healing Ability. <i>ACS Nano</i> , 2021, 15, 11358-11368.	14.6	15
13	Photothermal behaviour of titanium nitride nanoparticles evaluated by transient X-ray diffraction. <i>Nanoscale</i> , 2021, 13, 2658-2664.	5.6	15
14	Homogeneous ice nucleation rates and crystallization kinetics in transiently-heated, supercooled water films from 188 K to 230 K. <i>Journal of Chemical Physics</i> , 2019, 150, 204509.	3.0	14
15	Single-crystal ice surfaces unveil connection between macroscopic and molecular structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5349-5354.	7.1	12
16	Producing desired ice faces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6096-100.	7.1	11
17	Transient Lattice Response upon Photoexcitation in CuInSe ₂ Nanocrystals with Organic or Inorganic Surface Passivation. <i>ACS Nano</i> , 2020, 14, 13548-13556.	14.6	10
18	Optical Signatures of Transiently Disordered Semiconductor Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10008-10015.	14.6	9

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19	Anisotropic Transient Disorder of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. <i>Nano Letters</i> , 2021, 21, 1288-1294.	9.1	8
20	Compositionally Tuning Electron Transfer from Photoexcited Core/Shell Quantum Dots via Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3209-3216.	4.6	8
21	Gain roll-off in cadmium selenide colloidal quantum wells under intense optical excitation. <i>Scientific Reports</i> , 2022, 12, 8016.	3.3	7