Anirban Dutta

List of Publications by Year
in descending order

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37	3,295	218381	360668
papers	citations	26 h-index	35 g-index

37	37	37	4139
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
2	Limiting Heterovalent B-Site Doping in CsPbI₃ Nanocrystals: Phase and Optical Stability. ACS Energy Letters, 2019, 4, 1364-1369.	8.8	86
3	Solvent Polarity: How Does This Influence the Precursor Activation, Reaction Rate, Crystal Growth, and Doping in Perovskite Nanocrystals?. ACS Energy Letters, 2019, 4, 926-932.	8.8	44
4	Frontispiz: Nearâ€Unity Photoluminescence Quantum Efficiency for All CsPbX₃ (X=Cl, Br,) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	0
5	Frontispiece: Nearâ€Unity Photoluminescence Quantum Efficiency for All CsPbX₃ (X=Cl, Br,) Tj ETQq1 1 0.784314 rgBT / Edition, 2019, 58, .	7.2	0
6	Doping Mn(II) in All-Inorganic Ruddlesdenâ€“Popper Phase of Tetragonal Cs₂PbCl₂I₂ Perovskite Nanoplatelets. Journal of Physical Chemistry Letters, 2019, 10, 1954-1959.	2.1	45
7	Phase-Stable Red-Emitting CsPbI₃ Nanocrystals: Successes and Challenges. ACS Energy Letters, 2019, 4, 709-719.	8.8	135
8	Nearâ€Unity Photoluminescence Quantum Efficiency for All CsPbX 3 (X=Cl, Br, and I) Perovskite Nanocrystals: A Generic Synthesis Approach. Angewandte Chemie, 2019, 131, 5608-5612.	1.6	57
9	Nearâ€Unity Photoluminescence Quantum Efficiency for All CsPbX₃ (X=Cl, Br, and I) Perovskite Nanocrystals: A Generic Synthesis Approach. Angewandte Chemie - International Edition, 2019, 58, 5552-5556.	7.2	244
10	Doping the Smallest Shannon Radii Transition Metal Ion Ni(II) for Stabilizing Î±-CsPbI₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 7916-7921.	2.1	53
11	Doping Mn²⁺ in Single-Crystalline Layered Perovskite Microcrystals. ACS Energy Letters, 2019, 4, 343-351.	8.8	74
12	Tuning the Size of CsPbBr₃ Nanocrystals: All at One Constant Temperature. ACS Energy Letters, 2018, 3, 329-334.	8.8	151
13	Layered Perovskites L₂(Pb_{1â€“x}Mn_x)Cl₄ to Mn-Doped CsPbCl₃ Perovskite Platelets. ACS Energy Letters, 2018, 3, 1247-1253.	8.8	65
14	Predominated Thermodynamically Controlled Reactions for Suppressing Cross Nucleations in Formation of Multinary Substituted Tetrahedrite Nanocrystals. Journal of Physical Chemistry Letters, 2018, 9, 1907-1912.	2.1	10
15	Synergistic Effect of Inactive Iron Oxide Core on Active Nickel Phosphide Shell for Significant Enhancement in Oxygen Evolution Reaction Activity. ACS Energy Letters, 2018, 3, 141-148.	8.8	74
16	Blue-Emitting CsPbCl₃ Nanocrystals: Impact of Surface Passivation for Unprecedented Enhancement and Loss of Optical Emission. Journal of Physical Chemistry Letters, 2018, 9, 6884-6891.	2.1	101
17	Annealing CsPbX₃ (X = Cl and Br) Perovskite Nanocrystals at High Reaction Temperatures: Phase Change and Its Prevention. Journal of Physical Chemistry Letters, 2018, 9, 6599-6604.	2.1	69
18	Many-body localized phase of bosonic dipoles in a tilted optical lattice. Physical Review B, 2018, 98, .	1.1	5

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19	Dotâ€“Wireâ€“Plateletâ€“Cube: Step Growth and Structural Transformations in CsPbBr₃ Perovskite Nanocrystals. ACS Energy Letters, 2018, 3, 2014-2020.	8.8	106
20	Phaseâ€Stable CsPbI₃ Nanocrystals: The Reaction Temperature Matters. Angewandte Chemie - International Edition, 2018, 57, 9083-9087.	7.2	157
21	Phaseâ€Stable CsPbI₃ Nanocrystals: The Reaction Temperature Matters. Angewandte Chemie, 2018, 130, 9221-9225.	1.6	13
22	Chemically Tailoring the Dopant Emission in Manganeseâ€Doped CsPbCl₃ Perovskite Nanocrystals. Angewandte Chemie, 2017, 129, 8872-8876.	1.6	30
23	Chemically Tailoring the Dopant Emission in Manganeseâ€Doped CsPbCl₃ Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 8746-8750.	7.2	177
24	Symmetry Break and Seeded 2D Anisotropic Growth in Ternary CuGaS₂ Nanocrystals. Chemistry of Materials, 2017, 29, 5384-5393.	3.2	22
25	Developments of Metal Phosphides as Efficient OER Precatalysts. Journal of Physical Chemistry Letters, 2017, 8, 144-152.	2.1	290
26	Probing the role of long-range interactions in the dynamics of a long-range Kitaev chain. Physical Review B, 2017, 96, .	1.1	70
27	Modulated Binaryâ€“Ternary Dual Semiconductor Heterostructures. Angewandte Chemie - International Edition, 2016, 55, 2705-2708.	7.2	33
28	Modulated Binaryâ€“Ternary Dual Semiconductor Heterostructures. Angewandte Chemie, 2016, 128, 2755-2758.	1.6	22
29	Surface-Oxidized Dicobalt Phosphide Nanoneedles as a Nonprecious, Durable, and Efficient OER Catalyst. ACS Energy Letters, 2016, 1, 169-174.	8.8	251
30	Anti-Kibble-Zurek Behavior in Crossing the Quantum Critical Point of a Thermally Isolated System Driven by a Noisy Control Field. Physical Review Letters, 2016, 117, 080402.	2.9	51
31	Role of trap-induced scales in non-equilibrium dynamics of strongly interacting trapped bosons. Journal of Physics Condensed Matter, 2016, 28, 30LT01.	0.7	1
32	Oriented Attachments and Formation of Ring-on-Disk Heterostructure Auâ€“Cu₃P Photocatalysts. Chemistry of Materials, 2016, 28, 1872-1878.	3.2	38
33	Au Nanowire-Striped Cu₃P Platelet Photoelectrocatalysts. Journal of Physical Chemistry Letters, 2016, 7, 1077-1082.	2.1	10
34	Statistics of work distribution in periodically driven closed quantum systems. Physical Review E, 2015, 92, 012104.	0.8	19
35	Au-SnS Hetero Nanostructures: Size of Au Matters. Chemistry of Materials, 2014, 26, 7194-7200.	3.2	60
36	Unconventional superfluid phases and the phase dynamics in spin-orbit-coupled Bose systems. Physical Review A, 2013, 88, .	1.0	1

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37	Projection operator approach to the Bose-Hubbard model. Physical Review B, 2012, 86, .	1.1	26