

Anirban Dutta

List of Publications by Year in descending order

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37
papers

3,295
citations

218381

26
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360668

35
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37
all docs

37
docs citations

37
times ranked

4139
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	Developments of Metal Phosphides as Efficient OER Precatalysts. Journal of Physical Chemistry Letters, 2017, 8, 144-152.	2.1	290
3	Surface-Oxidized Dicobalt Phosphide Nanoneedles as a Nonprecious, Durable, and Efficient OER Catalyst. ACS Energy Letters, 2016, 1, 169-174.	8.8	251
4	Near-Unity Photoluminescence Quantum Efficiency for All CsPbX ₃ (X=Cl, Br, and I) Perovskite Nanocrystals: A Generic Synthesis Approach. Angewandte Chemie - International Edition, 2019, 58, 5552-5556.	7.2	244
5	Chemically Tailoring the Dopant Emission in Manganese-Doped CsPbCl ₃ Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 8746-8750.	7.2	177
6	Phase-Stable CsPbI ₃ Nanocrystals: The Reaction Temperature Matters. Angewandte Chemie - International Edition, 2018, 57, 9083-9087.	7.2	157
7	Tuning the Size of CsPbBr ₃ Nanocrystals: All at One Constant Temperature. ACS Energy Letters, 2018, 3, 329-334.	8.8	151
8	Phase-Stable Red-Emitting CsPbI ₃ Nanocrystals: Successes and Challenges. ACS Energy Letters, 2019, 4, 709-719.	8.8	135
9	Dot-in-Wire Platelet-Cube: Step Growth and Structural Transformations in CsPbBr ₃ Perovskite Nanocrystals. ACS Energy Letters, 2018, 3, 2014-2020.	8.8	106
10	Blue-Emitting CsPbCl ₃ 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
11	Limiting Heterovalent B-Site Doping in CsPbI ₃ Nanocrystals: Phase and Optical Stability. ACS Energy Letters, 2019, 4, 1364-1369.	8.8	86
12	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
13	Doping Mn ²⁺ in Single-Crystalline Layered Perovskite Microcrystals. ACS Energy Letters, 2019, 4, 343-351.	8.8	74
14	Probing the role of long-range interactions in the dynamics of a long-range Kitaev chain. Physical Review B, 2017, 96, .	1.1	70
15	Annealing CsPbX ₃ (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
16	Layered Perovskites L ₂ (Pb _{1-x} Mn _x)Cl ₄ to Mn-Doped CsPbCl ₃ Perovskite Platelets. ACS Energy Letters, 2018, 3, 1247-1253.	8.8	65
17	Au-SnS Hetero Nanostructures: Size of Au Matters. Chemistry of Materials, 2014, 26, 7194-7200.	3.2	60
18	Near-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

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19	Doping the Smallest Shannon Radii Transition Metal Ion Ni(II) for Stabilizing $\hat{\Gamma}_\pm$ -CsPbI ₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 7916-7921.	2.1	53
20	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
21	Doping Mn(II) in All-Inorganic Ruddlesden-Popper Phase of Tetragonal Cs ₂ PbCl ₂ I ₂ Perovskite Nanoplatelets. Journal of Physical Chemistry Letters, 2019, 10, 1954-1959.	2.1	45
22	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
23	Oriented Attachments and Formation of Ring-on-Disk Heterostructure Au-Cu ₃ P Photocatalysts. Chemistry of Materials, 2016, 28, 1872-1878.	3.2	38
24	Modulated Binary-Ternary Dual Semiconductor Heterostructures. Angewandte Chemie - International Edition, 2016, 55, 2705-2708.	7.2	33
25	Chemically Tailoring the Dopant Emission in Manganese-Doped CsPbCl ₃ Perovskite Nanocrystals. Angewandte Chemie, 2017, 129, 8872-8876.	1.6	30
26	Projection operator approach to the Bose-Hubbard model. Physical Review B, 2012, 86, .	1.1	26
27	Modulated Binary-Ternary Dual Semiconductor Heterostructures. Angewandte Chemie, 2016, 128, 2755-2758.	1.6	22
28	Symmetry Break and Seeded 2D Anisotropic Growth in Ternary CuGaS ₂ Nanocrystals. Chemistry of Materials, 2017, 29, 5384-5393.	3.2	22
29	Statistics of work distribution in periodically driven closed quantum systems. Physical Review E, 2015, 92, 012104.	0.8	19
30	Phase-Stable CsPbI ₃ Nanocrystals: The Reaction Temperature Matters. Angewandte Chemie, 2018, 130, 9221-9225.	1.6	13
31	Au Nanowire-Striped Cu ₃ P Platelet Photoelectrocatalysts. Journal of Physical Chemistry Letters, 2016, 7, 1077-1082.	2.1	10
32	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
33	Many-body localized phase of bosonic dipoles in a tilted optical lattice. Physical Review B, 2018, 98, .	1.1	5
34	Unconventional superfluid phases and the phase dynamics in spin-orbit-coupled Bose systems. Physical Review A, 2013, 88, .	1.0	1
35	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
36	Frontispiz: Near-Unity Photoluminescence Quantum Efficiency for All CsPbX ₃ (X=Cl, Br,) Tj ETQq0 0,0rgBT /Oyerlock 10	1.6	10

#	ARTICLE	IF	CITATIONS
37	Frontispiece: Near-Unity Photoluminescence Quantum Efficiency for All CsPbX ₃ (X=Cl, Br, I) <i>Nature Photonics</i> , 2019, 13, 58, .	7.2	0