

Anirban Dutta

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

3,295
citations

218677

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361022

35
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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. | 14.6 | 705 |
| 2 | Limiting Heterovalent B-Site Doping in CsPbI ₃ Nanocrystals: Phase and Optical Stability. ACS Energy Letters, 2019, 4, 1364-1369. | 17.4 | 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. | 17.4 | 44 |
| 4 | Frontispiz: Near-Unity Photoluminescence Quantum Efficiency for All CsPbX ₃ (X=Cl, Br,) Tj ETQq0 0,0 rgBT /Oerlock 10 | 2.0 | 0 |
| 5 | Frontispiece: Near-Unity Photoluminescence Quantum Efficiency for All CsPbX ₃ (X=Cl, Br,) Tj ETQq1 1 0.784314 rgBT /Oerlock 10 Edition, 2019, 58, . | 13.8 | 0 |
| 6 | 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. | 4.6 | 45 |
| 7 | Phase-Stable Red-Emitting CsPbI ₃ Nanocrystals: Successes and Challenges. ACS Energy Letters, 2019, 4, 709-719. | 17.4 | 135 |
| 8 | 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. | 2.0 | 57 |
| 9 | 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. | 13.8 | 244 |
| 10 | Doping the Smallest Shannon Radii Transition Metal Ion Ni(II) for Stabilizing $\hat{\Gamma}_1$ -CsPbI ₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 7916-7921. | 4.6 | 53 |
| 11 | Doping Mn ²⁺ in Single-Crystalline Layered Perovskite Microcrystals. ACS Energy Letters, 2019, 4, 343-351. | 17.4 | 74 |
| 12 | Tuning the Size of CsPbBr ₃ Nanocrystals: All at One Constant Temperature. ACS Energy Letters, 2018, 3, 329-334. | 17.4 | 151 |
| 13 | 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. | 17.4 | 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. | 4.6 | 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. | 17.4 | 74 |
| 16 | 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. | 4.6 | 101 |
| 17 | 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. | 4.6 | 69 |
| 18 | Many-body localized phase of bosonic dipoles in a tilted optical lattice. Physical Review B, 2018, 98, . | 3.2 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Dotâ€‘Wireâ€‘Plateletâ€‘Cube: Step Growth and Structural Transformations in CsPbBr ₃ Perovskite Nanocrystals. ACS Energy Letters, 2018, 3, 2014-2020. | 17.4 | 106 |
| 20 | Phaseâ€‘Stable CsPbI ₃ Nanocrystals: The Reaction Temperature Matters. Angewandte Chemie - International Edition, 2018, 57, 9083-9087. | 13.8 | 157 |
| 21 | Phaseâ€‘Stable CsPbI ₃ Nanocrystals: The Reaction Temperature Matters. Angewandte Chemie, 2018, 130, 9221-9225. | 2.0 | 13 |
| 22 | Chemically Tailoring the Dopant Emission in Manganeseâ€‘Doped CsPbCl ₃ Perovskite Nanocrystals. Angewandte Chemie, 2017, 129, 8872-8876. | 2.0 | 30 |
| 23 | Chemically Tailoring the Dopant Emission in Manganeseâ€‘Doped CsPbCl ₃ Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 8746-8750. | 13.8 | 177 |
| 24 | Symmetry Break and Seeded 2D Anisotropic Growth in Ternary CuGaS ₂ Nanocrystals. Chemistry of Materials, 2017, 29, 5384-5393. | 6.7 | 22 |
| 25 | Developments of Metal Phosphides as Efficient OER Precatalysts. Journal of Physical Chemistry Letters, 2017, 8, 144-152. | 4.6 | 290 |
| 26 | Probing the role of long-range interactions in the dynamics of a long-range Kitaev chain. Physical Review B, 2017, 96, . | 3.2 | 70 |
| 27 | Modulated Binaryâ€‘Ternary Dual Semiconductor Heterostructures. Angewandte Chemie - International Edition, 2016, 55, 2705-2708. | 13.8 | 33 |
| 28 | Modulated Binaryâ€‘Ternary Dual Semiconductor Heterostructures. Angewandte Chemie, 2016, 128, 2755-2758. | 2.0 | 22 |
| 29 | Surface-Oxidized Dicobalt Phosphide Nanoneedles as a Nonprecious, Durable, and Efficient OER Catalyst. ACS Energy Letters, 2016, 1, 169-174. | 17.4 | 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. | 7.8 | 51 |
| 31 | Role of trap-induced scales in non-equilibrium dynamics of strongly interacting trapped bosons. Journal of Physics Condensed Matter, 2016, 28, 30LT01. | 1.8 | 1 |
| 32 | Oriented Attachments and Formation of Ring-on-Disk Heterostructure Auâ€‘Cu ₃ P Photocatalysts. Chemistry of Materials, 2016, 28, 1872-1878. | 6.7 | 38 |
| 33 | Au Nanowire-Striped Cu ₃ P Platelet Photoelectrocatalysts. Journal of Physical Chemistry Letters, 2016, 7, 1077-1082. | 4.6 | 10 |
| 34 | Statistics of work distribution in periodically driven closed quantum systems. Physical Review E, 2015, 92, 012104. | 2.1 | 19 |
| 35 | Au-SnS Hetero Nanostructures: Size of Au Matters. Chemistry of Materials, 2014, 26, 7194-7200. | 6.7 | 60 |
| 36 | Unconventional superfluid phases and the phase dynamics in spin-orbit-coupled Bose systems. Physical Review A, 2013, 88, . | 2.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Projection operator approach to the Bose-Hubbard model. Physical Review B, 2012, 86, . | 3.2 | 26 |