

Prachi Rastogi

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,672
citations

567281

15
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

3071
citing authors

#	ARTICLE	IF	CITATIONS
1	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	544
2	Nearly Monodisperse Insulator Cs ₄ PbX ₆ (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX ₃ Nanocrystals. <i>Nano Letters</i> , 2017, 17, 1924-1930.	9.1	488
3	Bright-Emitting Perovskite Films by Large-Scale Synthesis and Photoinduced Solid-State Transformation of CsPbBr ₃ Nanoplatelets. <i>ACS Nano</i> , 2017, 11, 10206-10213.	14.6	118
4	From CsPbBr ₃ Nano-Inks to Sintered CsPbBr ₃ â€“CsPb ₂ Br ₅ Films via Thermal Annealing: Implications on Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11956-11961.	3.1	96
5	Single-Mode Lasing from Colloidal Water-Soluble CdSe/CdS Quantum Dot-In-Rods. <i>Small</i> , 2015, 11, 1328-1334.	10.0	70
6	Enhancing the Performance of CdSe/CdS Dot-in-Rod Light-Emitting Diodes via Surface Ligand Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5665-5672.	8.0	55
7	Near Unity Absorption in Nanocrystal Based Short Wave Infrared Photodetectors Using Guided Mode Resonators. <i>ACS Photonics</i> , 2019, 6, 2553-2561.	6.6	44
8	Complex Optical Index of HgTe Nanocrystal Infrared Thin Films and Its Use for Short Wave Infrared Photodiode Design. <i>Advanced Optical Materials</i> , 2021, 9, 2002066.	7.3	36
9	The Strong Confinement Regime in HgTe Two-Dimensional Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23460-23468.	3.1	29
10	Electroluminescence from HgTe Nanocrystals and Its Use for Active Imaging. <i>Nano Letters</i> , 2020, 20, 6185-6190.	9.1	28
11	Nanoplatelet-Based Light-Emitting Diode and Its Use in All-Nanocrystal LiFi-like Communication. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22058-22065.	8.0	23
12	Ferroelectric Gating of Narrow Band-Gap Nanocrystal Arrays with Enhanced Light-Matter Coupling. <i>ACS Photonics</i> , 2021, 8, 259-268.	6.6	23
13	Correlating Structure and Detection Properties in HgTe Nanocrystal Films. <i>Nano Letters</i> , 2021, 21, 4145-4151.	9.1	23
14	New Approach to Clean GaN Surfaces. <i>Materials Focus</i> , 2014, 3, 218-223.	0.4	22
15	Pushing Absorption of Perovskite Nanocrystals into the Infrared. <i>Nano Letters</i> , 2020, 20, 3999-4006.	9.1	18
16	Seeded Growth of HgTe Nanocrystals for Shape Control and Their Use in Narrow Infrared Electroluminescence. <i>Chemistry of Materials</i> , 2021, 33, 2054-2061.	6.7	16
17	Near- to Long-Wave-Infrared Mercury Chalcogenide Nanocrystals from Liquid Mercury. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8423-8430.	3.1	14
18	Time-Resolved Photoemission to Unveil Electronic Coupling between Absorbing and Transport Layers in a Quantum Dot-Based Solar Cell. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23400-23409.	3.1	12

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19	Revealing the Band Structure of FAPI Quantum Dot Film and Its Interfaces with Electron and Hole Transport Layer Using Time Resolved Photoemission. Journal of Physical Chemistry C, 2020, 124, 3873-3880.	3.1	10
20	Azobenzenes as Light-Activable Carrier Density Switches in Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 27257-27263.	3.1	3
21	Competition Between Layering & Nano-clustering Of Indium Atoms On Reconstructed Si (113) 3x2 Surface. Advanced Materials Letters, 2015, 6, 690-694.	0.6	0