Natalia Yantara

List of Publications by Year
in descending order

38 papers	7,226 citations	279487 23 h-index	344852 36 g-index
38 all docs	38 docs citations	38 times ranked	9849 citing authors

#	Article	IF	Citations
1	Low-temperature solution-processed wavelength-tunable perovskites for lasing. Nature Materials, 2014, 13, 476-480.	13.3	2,725
2	Perovskite Materials for Lightâ€Emitting Diodes and Lasers. Advanced Materials, 2016, 28, 6804-6834.	11.1	1,188
3	Band-gap tuning of lead halide perovskites using a sequential deposition process. Journal of Materials Chemistry A, 2014, 2, 9221-9225.	5.2	494
4	Inorganic Halide Perovskites for Efficient Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2015, 6, 4360-4364.	2.1	482
5	Formamidinium tin-based perovskite with low E_g for photovoltaic applications. Journal of Materials Chemistry A, 2015, 3, 14996-15000.	5.2	449
6	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. Nature Communications, 2017, 8, 14350.	5.8	282
7	Charge Accumulation and Hysteresis in Perovskiteâ€Based Solar Cells: An Electroâ€Optical Analysis. Advanced Energy Materials, 2015, 5, 1500829.	10.2	217
8	Interfacial Electron Transfer Barrier at Compact TiO₂/CH₃NH₃PbI₃Heterojunction. Small, 2015, 11, 3606-3613.	5.2	196
9	Ionotronic Halide Perovskite Driftâ€Diffusive Synapses for Lowâ€Power Neuromorphic Computation. Advanced Materials, 2018, 30, e1805454.	11.1	146
10	Self-assembled hierarchical nanostructured perovskites enable highly efficient LEDs via an energy cascade. Energy and Environmental Science, 2018, 11, 1770-1778.	15.6	135
11	Enhanced Exciton and Photon Confinement in Ruddlesdenâ€“Popper Perovskite Microplatelets for Highly Stable Lowâ€Threshold Polarized Lasing. Advanced Materials, 2018, 30, e1707235.	11.1	101
12	Highly efficient Cs-based perovskite light-emitting diodes enabled by energy funnelling. Chemical Communications, 2017, 53, 12004-12007.	2.2	85
13	Designing Efficient Energy Funneling Kinetics in Ruddlesdenâ€“Popper Perovskites for Highâ€Performance Lightâ€Emitting Diodes. Advanced Materials, 2018, 30, e1800818.	11.1	85
14	Diffusive and Drift Halide Perovskite Memristive Barristors as Nociceptive and Synaptic Emulators for Neuromorphic Computing. Advanced Materials, 2021, 33, 2007851.	11.1	83
15	Transparent Flexible Multifunctional Nanostructured Architectures for Non-optical Readout, Proximity, and Pressure Sensing. ACS Applied Materials & Interfaces, 2017, 9, 15015-15021.	4.0	58
16	Amplified Spontaneous Emission Properties of Solution Processed CsPbBr₃ Perovskite Thin Films. Journal of Physical Chemistry C, 2017, 121, 14772-14778.	1.5	58
17	Stabilizing the Electroluminescence of Halide Perovskites with Potassium Passivation. ACS Energy Letters, 2020, 5, 1804-1813.	8.8	41
18	Coâ€Evaporated MAPbI₃ with Graded Fermi Levels Enables Highly Performing, Scalable, and Flexible pâ€inâ€n Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2103252.	7.8	40

#	Article	IF	Citations
19	Alkali Additives Enable Efficient Large Area (>55 cm²) Slotâ€Die Coated Perovskite Solar Modules. Advanced Functional Materials, 2022, 32, .	7.8	39
20	Recent advancements and perspectives on light management and high performance in perovskite light-emitting diodes. Nanophotonics, 2021, 10, 2103-2143.	2.9	35
21	Cubic NaSbS₂ as an Ionicâ€“Electronic Coupled Semiconductor for Switchable Photovoltaic and Neuromorphic Device Applications. Advanced Materials, 2020, 32, e1906976.	11.1	34
22	Rapid Crystallization of All-Inorganic CsPbBr3 Perovskite for High-Brightness Light-Emitting Diodes. ACS Omega, 2017, 2, 2757-2764.	1.6	28
23	Perovskite nanostructures: Leveraging quantum effects to challenge optoelectronic limits. Materials Today, 2020, 33, 122-140.	8.3	26
24	Design of 2D Templating Molecules for Mixed-Dimensional Perovskite Light-Emitting Diodes. Chemistry of Materials, 2020, 32, 8097-8105.	3.2	24
25	Additives in Halide Perovskite for Blue-Light-Emitting Diodes: Passivating Agents or Crystallization Modulators?. ACS Energy Letters, 2021, 6, 4265-4272.	8.8	24
26	Reversible Photochromism in âŸ¨110âŸ© Oriented Layered Halide Perovskite. ACS Nano, 2022, 16, 2942-2952.	7.3	23
27	White Electroluminescence from Perovskiteâ€“Organic Heterojunction. ACS Energy Letters, 2020, 5, 2690-2697.	8.8	21
28	Enhanced Coverage of Allâ€Inorganic Perovskite CsPbBr₃ through Sequential Deposition for Green Lightâ€Emitting Diodes. Energy Technology, 2017, 5, 1859-1865.	1.8	15
29	One-Pot Synthesis and Structural Evolution of Colloidal Cesium Lead Halideâ€“Lead Sulfide Heterostructure Nanocrystals for Optoelectronic Applications. Journal of Physical Chemistry Letters, 2021, 12, 9569-9578.	2.1	15
30	Defect Passivation Using a Phosphonic Acid Surface Modifier for Efficient RP Perovskite Blue-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 34238-34246.	4.0	15
31	Grain Size Modulation and Interfacial Engineering of CH₃NH₃PbBr₃ Emitter Films through Incorporation of Tetraethylammonium Bromide. ChemPhysChem, 2018, 19, 1075-1080.	1.0	13
32	Modulating Excitonic Recombination Effects through Oneâ€Step Synthesis of Perovskite Nanoparticles for Lightâ€Emitting Diodes. ChemSusChem, 2017, 10, 3818-3824.	3.6	12
33	Perovskite templating via a bathophenanthroline additive for efficient light-emitting devices. Journal of Materials Chemistry C, 2018, 6, 2295-2302.	2.7	12
34	Inducing thermoreversible optical transitions in urethane-acrylate systems via ionic liquid incorporation for stretchable smart devices. Journal of Materials Chemistry A, 2021, 9, 13615-13624.	5.2	11
35	Modulating light propagation in ZnOâ€“Cu2O-inverse opal solar cells for enhanced photocurrents. Physical Chemistry Chemical Physics, 2015, 17, 21694-21701.	1.3	9
36	Regulating Vertical Domain Distribution in Ruddlesdenâ€“Popper Perovskites for Electroluminescence Devices. Journal of Physical Chemistry Letters, 2019, 10, 7949-7955.	2.1	5

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37	Additives in Halide Perovskite for Blue-LightEmitting Diodes: Passivating Agents or Crystallization Modulators?. , 0, , .		0
38	White Electroluminescence from Perovskiteâ€“Organic Heterojunction. , 0, , .		0