Peter N Rudd

List of Publications by Year
in descending order

18	3,952	430874 18	794594 19
papers	citations	h-index	g-index

19	19	19	4680
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Imperfections and their passivation in halide perovskite solar cells. Chemical Society Reviews, 2019, 48, 3842-3867.	38.1	1,257
2	Bilateral alkylamine for suppressing charge recombination and improving stability in blade-coated perovskite solar cells. Science Advances, 2019, 5, eaav8925.	10.3	388
3	Grain Engineering for Perovskite/Silicon Monolithic Tandem Solar Cells with Efficiency of 25.4%. Joule, 2019, 3, 177-190.	24.0	329
4	Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. Nature Communications, 2019, 10, 5633.	12.8	267
5	Suppressed Ion Migration along the In-Plane Direction in Layered Perovskites. ACS Energy Letters, 2018, 3, 684-688.	17.4	240
6	Reducing Surface Halide Deficiency for Efficient and Stable Iodide-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 3989-3996.	13.7	236
7	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. Nature Communications, 2019, 10, 4498.	12.8	234
8	Scalable Fabrication of Efficient Perovskite Solar Modules on Flexible Glass Substrates. Advanced Energy Materials, 2020, 10, 1903108.	19.5	186
9	Excess charge-carrier induced instability of hybrid perovskites. Nature Communications, 2018, 9, 4981.	12.8	159
10	Interfacial Molecular Doping of Metal Halide Perovskites for Highly Efficient Solar Cells. Advanced Materials, 2020, 32, e2001581.	21.0	139
11	Blading Phaseâ€Pure Formamidiniumâ€Alloyed Perovskites for Highâ€Efficiency Solar Cells with Low Photovoltage Deficit and Improved Stability. Advanced Materials, 2020, 32, e2000995.	21.0	125
12	Preventing lead leakage with built-in resin layers for sustainable perovskite solar cells. Nature Sustainability, 2021, 4, 636-643.	23.7	111
13	Synergistic Effect of Elevated Device Temperature and Excess Charge Carriers on the Rapid Lightâ€Induced Degradation of Perovskite Solar Cells. Advanced Materials, 2019, 31, e1902413.	21.0	90
14	Low defects density CsPbBr₃ single crystals grown by an additive assisted method for gamma-ray detection. Journal of Materials Chemistry C, 2020, 8, 11360-11368.	5.5	63
15	Metal Ions in Halide Perovskite Materials and Devices. Trends in Chemistry, 2019, 1, 394-409.	8.5	44
16	Ultrafast Exciton Transport with a Long Diffusion Length in Layered Perovskites with Organic Cation Functionalization. Advanced Materials, 2020, 32, e2004080.	21.0	34
17	Layer number dependent ferroelasticity in 2D Ruddlesdenâ€“Popper organic-inorganic hybrid perovskites. Nature Communications, 2021, 12, 1332.	12.8	28
18	Hotâ€Substrate Deposition of Holeâ€and Electronâ€Transport Layers for Enhanced Performance in Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1701659.	19.5	20