

Peter N Rudd

List of Publications by Year in descending order

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18
papers

3,952
citations

430442

18
h-index

794141

19
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19
all docs

19
docs citations

19
times ranked

4680
citing authors

#	ARTICLE	IF	CITATIONS
1	Imperfections and their passivation in halide perovskite solar cells. <i>Chemical Society Reviews</i> , 2019, 48, 3842-3867.	18.7	1,257
2	Bilateral alkylamine for suppressing charge recombination and improving stability in blade-coated perovskite solar cells. <i>Science Advances</i> , 2019, 5, eaav8925.	4.7	388
3	Grain Engineering for Perovskite/Silicon Monolithic Tandem Solar Cells with Efficiency of 25.4%. <i>Joule</i> , 2019, 3, 177-190.	11.7	329
4	Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. <i>Nature Communications</i> , 2019, 10, 5633.	5.8	267
5	Suppressed Ion Migration along the In-Plane Direction in Layered Perovskites. <i>ACS Energy Letters</i> , 2018, 3, 684-688.	8.8	240
6	Reducing Surface Halide Deficiency for Efficient and Stable Iodide-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 3989-3996.	6.6	236
7	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. <i>Nature Communications</i> , 2019, 10, 4498.	5.8	234
8	Scalable Fabrication of Efficient Perovskite Solar Modules on Flexible Glass Substrates. <i>Advanced Energy Materials</i> , 2020, 10, 1903108.	10.2	186
9	Excess charge-carrier induced instability of hybrid perovskites. <i>Nature Communications</i> , 2018, 9, 4981.	5.8	159
10	Interfacial Molecular Doping of Metal Halide Perovskites for Highly Efficient Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2001581.	11.1	139
11	Blading Phase-Pure Formamidinium-Alloyed Perovskites for High-Efficiency Solar Cells with Low Photovoltage Deficit and Improved Stability. <i>Advanced Materials</i> , 2020, 32, e2000995.	11.1	125
12	Preventing lead leakage with built-in resin layers for sustainable perovskite solar cells. <i>Nature Sustainability</i> , 2021, 4, 636-643.	11.5	111
13	Synergistic Effect of Elevated Device Temperature and Excess Charge Carriers on the Rapid Light-Induced Degradation of Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1902413.	11.1	90
14	Low defects density CsPbBr ₃ single crystals grown by an additive assisted method for gamma-ray detection. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11360-11368.	2.7	63
15	Metal Ions in Halide Perovskite Materials and Devices. <i>Trends in Chemistry</i> , 2019, 1, 394-409.	4.4	44
16	Ultrafast Exciton Transport with a Long Diffusion Length in Layered Perovskites with Organic Cation Functionalization. <i>Advanced Materials</i> , 2020, 32, e2004080.	11.1	34
17	Layer number dependent ferroelasticity in 2D Ruddlesden-Popper organic-inorganic hybrid perovskites. <i>Nature Communications</i> , 2021, 12, 1332.	5.8	28
18	Hot-Substrate Deposition of Hole- and Electron-Transport Layers for Enhanced Performance in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701659.	10.2	20