

# Peter N Rudd

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18  
papers

2,389  
citations

16  
h-index

19  
g-index

19  
ext. papers

3,157  
ext. citations

21.3  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
18	Preventing lead leakage with built-in resin layers for sustainable perovskite solar cells. <i>Nature Sustainability</i> , <b>2021</b> , 4, 636-643	22.1	44
17	Layer number dependent ferroelasticity in 2D Ruddlesden-Popper organic-inorganic hybrid perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 1332	17.4	10
16	Blading Phase-Pure Formamidinium-Alloyed Perovskites for High-Efficiency Solar Cells with Low Photovoltage Deficit and Improved Stability. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000995	24	80
15	Interfacial Molecular Doping of Metal Halide Perovskites for Highly Efficient Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001581	24	77
14	Reducing Surface Halide Deficiency for Efficient and Stable Iodide-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3989-3996	16.4	133
13	Scalable Fabrication of Efficient Perovskite Solar Modules on Flexible Glass Substrates. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903108	21.8	125
12	Ultrafast Exciton Transport with a Long Diffusion Length in Layered Perovskites with Organic Cation Functionalization. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004080	24	16
11	Low defects density CsPbBr <sub>3</sub> single crystals grown by an additive assisted method for gamma-ray detection. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11360-11368	7.1	20
10	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4498	17.4	138
9	Metal Ions in Halide Perovskite Materials and Devices. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 394-409	14.8	32
8	Imperfections and their passivation in halide perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3842-3867	58.5	724
7	Bilateral alkylamine for suppressing charge recombination and improving stability in blade-coated perovskite solar cells. <i>Science Advances</i> , <b>2019</b> , 5, eaav8925	14.3	262
6	Synergistic Effect of Elevated Device Temperature and Excess Charge Carriers on the Rapid Light-Induced Degradation of Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902413	24	57
5	Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. <i>Nature Communications</i> , <b>2019</b> , 10, 5633	17.4	164
4	Grain Engineering for Perovskite/Silicon Monolithic Tandem Solar Cells with Efficiency of 25.4%. <i>Joule</i> , <b>2019</b> , 3, 177-190	27.8	227
3	Suppressed Ion Migration along the In-Plane Direction in Layered Perovskites. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 684-688	20.1	166
2	Hot-Substrate Deposition of Hole- and Electron-Transport Layers for Enhanced Performance in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701659	21.8	18

- 1 Excess charge-carrier induced instability of hybrid perovskites. *Nature Communications*, **2018**, 9, 4981 17.4 95