Namyoung Ahn

List of Publications by Year in Descending Order

22 papers	4,500 citations	18 h-index	24 g-index
24 ext. papers	5,003 ext. citations	18.4 avg, IF	5.6 L-index

#	Paper	IF	Citations
22	Prospects and challenges of colloidal quantum dot laser diodes. *Nature Photonics*, **2021**, 15, 643-655	33.9	18
21	Impermeable inorganic walls sandwiching perovskite layer toward inverted and indoor photovoltaic devices. *Nano Energy*, **2021**, 88, 106286	17.1	6
20	Charge Transport Layer-Dependent Electronic Band Bending in Perovskite Solar Cells and Its Correlation to Light-Induced Device Degradation. *ACS Energy Letters*, **2020**, 5, 2580-2589	20.1	22
19	Degradation of CH3NH3PbI3 perovskite materials by localized charges and its polarity dependency. *Journal of Materials Chemistry A*, **2019**, 7, 12075-12085	13	14
18	An atomistic mechanism for the degradation of perovskite solar cells by trapped charge. *Nanoscale*, **2019**, 11, 11369-11378	7.7	32
17	Ultra-flexible perovskite solar cells with crumpling durability: toward a wearable power source. *Energy and Environmental Science*, **2019**, 12, 3182-3191	35.4	78
16	Highly Reproducible Large-Area Perovskite Solar Cell Fabrication via Continuous Megasonic Spray Coating of CH NH PbI. *Small*, **2019**, 15, e1804005	11	68
15	Carbon-sandwiched perovskite solar cell. *Journal of Materials Chemistry A*, **2018**, 6, 1382-1389	13	77
14	Precise Morphology Control and Continuous Fabrication of Perovskite Solar Cells Using Droplet-Controllable Electrospray Coating System. *ACS Applied Materials & Interfaces*, **2017**, 9, 7879-7884	9.5	33
13	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2017**, 8, 5395-5401	6.4	107
12	Superflexible, high-efficiency perovskite solar cells utilizing graphene electrodes: towards future foldable power sources. *Energy and Environmental Science*, **2017**, 10, 337-345	35.4	307
11	Self-formed grain boundary healing layer for highly efficient CH3NH3PbI3 perovskite solar cells. *Nature Energy*, **2016**, 1,	62.3	757
10	Trapped charge-driven degradation of perovskite solar cells. *Nature Communications*, **2016**, 7, 13422	17.4	390
9	Transparent Conductive Oxide-Free Graphene-Based Perovskite Solar Cells with over 17% Efficiency. *Advanced Energy Materials*, **2016**, 6, 1501873	21.8	161
8	Highly Reproducible Perovskite Solar Cells with Average Efficiency of 18.3% and Best Efficiency of 19.7% Fabricated via Lewis Base Adduct of Lead(II) Iodide. *Journal of the American Chemical Society*, **2015**, 137, 8696-9	16.4	1751
7	Control of I-V hysteresis in CH3NH3PbI3 perovskite solar cell. *Journal of Physical Chemistry Letters*, **2015**, 6, 4633-9	6.4	379
6	Opto-electronic properties of TiO2 nanohelices with embedded HC(NH2)2PbI3 perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 9179-9186	13	60

5	Thermodynamic regulation of CH3NH3PbI3 crystal growth and its effect on photovoltaic performance of perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 19901-19906	13	78
4	Water-repellent perovskite solar cell. *Journal of Materials Chemistry A*, **2014**, 2, 20017-20021	13	55
3	Janus-compartmental alginate microbeads having polydiacetylene liposomes and magnetic nanoparticles for visual lead(II) detection. *ACS Applied Materials & Interfaces*, **2014**, 6, 10631-7	9.5	55
2	Biomimetic detection of aminoglycosidic antibiotics using polydiacetylene-phospholipids supramolecules. *Chemical Communications*, **2012**, 48, 5313-5	5.8	44
1	Imaging Real-Time Amorphization of Hybrid Perovskite Solar Cells under Electrical Biasing. *ACS Energy Letters*,3530-3537	20.1	4