Joon-Suh Park

List of Publications by Citations

26 papers	924 citations	15 h-index	30 g-index
33 ext. papers	1,131 ext. citations	9.8 avg, IF	4.31 L-index

#	Paper	IF	Citations
26	Alternative Patterning Process for Realization of Large-Area, Full-Color, Active Quantum Dot Display. *Nano Letters*, **2016**, 16, 6946-6953	11.5	121
25	Improving Performance and Stability of Flexible Planar-Heterojunction Perovskite Solar Cells Using Polymeric Hole-Transport Material. *Advanced Functional Materials*, **2016**, 26, 4464-4471	15.6	120
24	A tailored TiO2 electron selective layer for high-performance flexible perovskite solar cells via low temperature UV process. *Nano Energy*, **2016**, 28, 380-389	17.1	100
23	Nanocrystalline Titanium Metal-Organic Frameworks for Highly Efficient and Flexible Perovskite Solar Cells. *ACS Nano*, **2018**, 12, 4968-4975	16.7	93
22	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. *Nano Letters*, **2019**, 19, 8673-8682	11.5	82
21	A Plasmonic Platform with Disordered Array of Metal Nanoparticles for Three-Order Enhanced Upconversion Luminescence and Highly Sensitive Near-Infrared Photodetector. *Advanced Materials*, **2016**, 28, 7899-7909	24	46
20	Flexible and highly efficient perovskite solar cells with a large active area incorporating cobalt-doped poly(3-hexylthiophene) for enhanced open-circuit voltage. *Journal of Materials Chemistry A*, **2017**, 5, 12158-12167	13	43
19	High-performance flexible and air-stable perovskite solar cells with a large active area based on poly(3-hexylthiophene) nanofibrils. *Journal of Materials Chemistry A*, **2016**, 4, 11307-11316	13	42
18	Meta-optics achieves RGB-achromatic focusing for virtual reality. *Science Advances*, **2021**, 7,	14.3	42
17	Vertically aligned nanostructured TiO2 photoelectrodes for high efficiency perovskite solar cells via a block copolymer template approach. *Nanoscale*, **2016**, 8, 11472-9	7.7	40
16	Optical properties of metasurfaces infiltrated with liquid crystals. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 20390-20396	11.5	37
15	CH3NH3PbI3 crystal orientation and photovoltaic performance of planar heterojunction perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 160, 77-84	6.4	34
14	Band-gap opening in graphene: A reverse-engineering approach. *Physical Review B*, **2015**, 92,	3.3	24
13	Solution-processed indium oxide electron transporting layers for high-performance and photo-stable perovskite and organic solar cells. *Nanoscale*, **2017**, 9, 16305-16312	7.7	22
12	Development of organic-inorganic double hole-transporting material for high performance perovskite solar cells. *Journal of Power Sources*, **2018**, 378, 98-104	8.9	20
11	High-Speed Colloidal Quantum Dot Photodiodes via Accelerating Charge Separation at Metal-Oxide Interface. *Small*, **2019**, 15, e1900008	11	12
10	Inverse design enables large-scale high-performance meta-optics reshaping virtual reality.. *Nature Communications*, **2022**, 13, 2409	17.4	11

List of Publications

9	Emissive CdTe/ZnO/GO quasi-core-shell-shell hybrid quantum dots for white light emitting diodes. *Nanoscale*, **2016**, 8, 19737-19743	7.7	9
8	Engineering phase and polarization singularity sheets. *Nature Communications*, **2021**, 12, 4190	17.4	9
7	Quantum cascade lasers with YO insulation layer operating at 8.1 μm. *Optics Express*, **2017**, 25, 19561-19567	3.3	3
6	Flexible Electronics: Improving Performance and Stability of Flexible Planar-Heterojunction Perovskite Solar Cells Using Polymeric Hole-Transport Material (Adv. Funct. Mater. 25/2016). *Advanced Functional Materials*, **2016**, 26, 4426-4426	15.6	2
5	Large-area, single material metalens in the visible: An approach for mass-production using conventional semiconductor manufacturing techniques **2019**,		2
4	Surface smoothing of indium tin oxide film by laser-induced photochemical etching. *Japanese Journal of Applied Physics*, **2017**, 56, 128003	1.4	1
3	Generalized polarization transformations with metasurfaces. *Optics Express*, **2021**, 29, 39065-39078	3.3	0
2	Surface smoothing of poly(methyl methacrylate) film by laser induced photochemical etching. *Japanese Journal of Applied Physics*, **2017**, 56, 090306	1.4	
1	40-3: Invited Paper: A Large RGB-achromatic Metalens for Virtual/Augmented Reality Applications. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 575-578	0.5	