

# Joon-Suh Park

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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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.

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	Inverse design enables large-scale high-performance meta-optics reshaping virtual reality.. <i>Nature Communications</i> , <b>2022</b> , 13, 2409	17.4	11
25	Generalized polarization transformations with metasurfaces. <i>Optics Express</i> , <b>2021</b> , 29, 39065-39078	3.3	0
24	Engineering phase and polarization singularity sheets. <i>Nature Communications</i> , <b>2021</b> , 12, 4190	17.4	9
23	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	42
22	40-3: Invited Paper: A Large RGB-achromatic Metalens for Virtual/Augmented Reality Applications. <i>Digest of Technical Papers SID International Symposium</i> , <b>2020</b> , 51, 575-578	0.5	
21	Optical properties of metasurfaces infiltrated with liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20390-20396	11.5	37
20	High-Speed Colloidal Quantum Dot Photodiodes via Accelerating Charge Separation at Metal-Oxide Interface. <i>Small</i> , <b>2019</b> , 15, e1900008	11	12
19	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , <b>2019</b> , 19, 8673-8682	11.5	82
18	Large-area, single material metalens in the visible: An approach for mass-production using conventional semiconductor manufacturing techniques <b>2019</b> ,		2
17	Development of organic-inorganic double hole-transporting material for high performance perovskite solar cells. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 98-104	8.9	20
16	Nanocrystalline Titanium Metal-Organic Frameworks for Highly Efficient and Flexible Perovskite Solar Cells. <i>ACS Nano</i> , <b>2018</b> , 12, 4968-4975	16.7	93
15	Solution-processed indium oxide electron transporting layers for high-performance and photo-stable perovskite and organic solar cells. <i>Nanoscale</i> , <b>2017</b> , 9, 16305-16312	7.7	22
14	Surface smoothing of indium tin oxide film by laser-induced photochemical etching. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 128003	1.4	1
13	CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> crystal orientation and photovoltaic performance of planar heterojunction perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 160, 77-84	6.4	34
12	Surface smoothing of poly(methyl methacrylate) film by laser induced photochemical etching. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 090306	1.4	
11	Quantum cascade lasers with YO insulation layer operating at 8.1 $\mu$ m. <i>Optics Express</i> , <b>2017</b> , 25, 19561-19567	3.9	3
10	Flexible and highly efficient perovskite solar cells with a large active area incorporating cobalt-doped poly(3-hexylthiophene) for enhanced open-circuit voltage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12158-12167	13	43

9	A Plasmonic Platform with Disordered Array of Metal Nanoparticles for Three-Order Enhanced Upconversion Luminescence and Highly Sensitive Near-Infrared Photodetector. <i>Advanced Materials</i> , <b>2016</b> , 28, 7899-7909	24	46
8	Flexible Electronics: Improving Performance and Stability of Flexible Planar-Heterojunction Perovskite Solar Cells Using Polymeric Hole-Transport Material (Adv. Funct. Mater. 25/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4426-4426	15.6	2
7	Emissive CdTe/ZnO/GO quasi-core-shell-shell hybrid quantum dots for white light emitting diodes. <i>Nanoscale</i> , <b>2016</b> , 8, 19737-19743	7.7	9
6	High-performance flexible and air-stable perovskite solar cells with a large active area based on poly(3-hexylthiophene) nanofibrils. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11307-11316	13	42
5	Improving Performance and Stability of Flexible Planar-Heterojunction Perovskite Solar Cells Using Polymeric Hole-Transport Material. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4464-4471	15.6	120
4	Vertically aligned nanostructured TiO <sub>2</sub> photoelectrodes for high efficiency perovskite solar cells via a block copolymer template approach. <i>Nanoscale</i> , <b>2016</b> , 8, 11472-9	7.7	40
3	A tailored TiO <sub>2</sub> electron selective layer for high-performance flexible perovskite solar cells via low temperature UV process. <i>Nano Energy</i> , <b>2016</b> , 28, 380-389	17.1	100
2	Alternative Patterning Process for Realization of Large-Area, Full-Color, Active Quantum Dot Display. <i>Nano Letters</i> , <b>2016</b> , 16, 6946-6953	11.5	121
1	Band-gap opening in graphene: A reverse-engineering approach. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	24