

# Min Seok Jang

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,907  
citations

430874

18  
h-index

189892

50  
g-index

52  
all docs

52  
docs citations

52  
times ranked

5012  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-modulated optical and electrical properties of graphene. <i>Nanophotonics</i> , 2022, 11, 917-940.	6.0	15
2	Free-form optimization of nanophotonic devices: from classical methods to deep learning. <i>Nanophotonics</i> , 2022, 11, 1809-1845.	6.0	38
3	Design framework for polarization-insensitive multifunctional achromatic metalenses. <i>Nanophotonics</i> , 2022, 11, 583-591.	6.0	11
4	Image polaritons in van der Waals crystals. <i>Nanophotonics</i> , 2022, 11, 2433-2452.	6.0	16
5	Structural Optimization of a One-Dimensional Freeform Metagrating Deflector via Deep Reinforcement Learning. <i>ACS Photonics</i> , 2022, 9, 452-458.	6.6	16
6	Full 2 $\pi$ tunable phase modulation using avoided crossing of resonances. <i>Nature Communications</i> , 2022, 13, 2103.	12.8	10
7	Temperature-Dependent Plasmonic Response of Graphene Nanoresonators. <i>ACS Photonics</i> , 2022, 9, 2256-2262.	6.6	1
8	Near-field probing of image phonon-polaritons in hexagonal boron nitride on gold crystals. <i>Science Advances</i> , 2022, 8, .	10.3	13
9	Real-space imaging of acoustic plasmons in large-area graphene grown by chemical vapor deposition. <i>Nature Communications</i> , 2021, 12, 938.	12.8	33
10	Ultracompact electro-optic waveguide modulator based on a graphene-covered $\lambda/1000$ plasmonic nanogap. <i>Optics Express</i> , 2021, 29, 13852.	3.4	4
11	Metastable quantum dot for photoelectric devices via flash-induced one-step sequential self-formation. <i>Nano Energy</i> , 2021, 84, 105889.	16.0	6
12	Functional Integration of Catalysts with Si Nanowire Photocathodes for Efficient Utilization of Photogenerated Charge Carriers. <i>ACS Omega</i> , 2021, 6, 22311-22316.	3.5	4
13	Universal Patterning for 2D Van der Waals Materials via Direct Optical Lithography. <i>Advanced Functional Materials</i> , 2021, 31, 2105302.	14.9	6
14	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021, 33, e2105199.	21.0	25
15	Microcellular sensing media with ternary transparency states for fast and intuitive identification of unknown liquids. <i>Science Advances</i> , 2021, 7, eabg8013.	10.3	3
16	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection ( <i>Adv. Mater.</i> 44/2021). <i>Advanced Materials</i> , 2021, 33, 2170350.	21.0	1
17	Inverse design of organic light-emitting diode structure based on deep neural networks. <i>Nanophotonics</i> , 2021, 10, 4533-4541.	6.0	8
18	Versatile use of ZnO interlayer in hybrid solar cells for self-powered near infra-red photo-detecting application. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152202.	5.5	19

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19	Complete Complex Amplitude Modulation with Electronically Tunable Graphene Plasmonic Metamolecules. ACS Nano, 2020, 14, 1166-1175.	14.6	65
20	Functional Mid-Infrared Polaritons in van der Waals Crystals. Advanced Optical Materials, 2020, 8, 1901194.	7.3	21
21	Simulation and Fabrication of Nanoscale Spirals Based on Dual-Scale Self-Assemblies. ACS Applied Materials & Interfaces, 2020, 12, 46678-46685.	8.0	7
22	Exceptional Points in Plasmonic Waveguides Do Not Require Gain or Loss. Physical Review Applied, 2020, 14, .	3.8	4
23	Ultimate Light Trapping in a Free-Form Plasmonic Waveguide. Physical Review Applied, 2019, 12, .	3.8	9
24	Self-Stabilizing Laser Sails Based on Optical Metasurfaces. ACS Photonics, 2019, 6, 2032-2040.	6.6	35
25	Order-of-Magnitude, Broadband-Enhanced Light Emission from Quantum Dots Assembled in Multiscale Phase-Separated Block Copolymers. Nano Letters, 2019, 19, 6827-6838.	9.1	21
26	Three-dimensionally patterned Ag-Pt alloy catalyst on planar Si photocathodes for photoelectrochemical H <sub>2</sub> evolution. Physical Chemistry Chemical Physics, 2019, 21, 4184-4192.	2.8	11
27	Efficient Photodoping of Graphene in Perovskite-Graphene Heterostructure. Advanced Electronic Materials, 2019, 5, 1800940.	5.1	8
28	Optical and electrical effects of nanobump structure combined with an undulated active layer on plasmonic organic solar cells. Organic Electronics, 2019, 71, 136-142.	2.6	5
29	Observation of Wavelength-Dependent Quantum Plasmon Tunneling with Varying the Thickness of Graphene Spacer. Scientific Reports, 2019, 9, 1199.	3.3	13
30	Mixed Valence Perovskite Cs <sub>2</sub> Au <sub>2</sub> I <sub>6</sub> : A Potential Material for Thin-Film Pb-Free Photovoltaic Cells with Ultrahigh Efficiency. Advanced Materials, 2018, 30, e1707001.	21.0	79
31	Electronically Tunable Perfect Absorption in Graphene. Nano Letters, 2018, 18, 971-979.	9.1	197
32	Modulated Resonant Transmission of Graphene Plasmons Across a $\lambda/50$ Plasmonic Waveguide Gap. Physical Review Applied, 2018, 10, .	3.8	13
33	Engraving High-Density Nanogaps in Gold Thin Films via Sequential Anodization and Reduction for Surface-Enhanced Raman Spectroscopy Applications. Chemistry of Materials, 2018, 30, 6183-6191.	6.7	12
34	Plasmon-Enhanced Photodetection in Ferromagnet/Nonmagnet Spin Thermoelectric Structures. Advanced Functional Materials, 2018, 28, 1802936.	14.9	7
35	Ultra-compact optical switch based on Fano resonance in graphene-functionalized plasmonic nano-cavity. , 2018, .		0
36	Vertical stacking of three-dimensional nanostructures via an aerosol lithography for advanced optical applications. Nanotechnology, 2017, 28, 475302.	2.6	4

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37	Transparent Conductive Oxide-Free Graphene-Based Perovskite Solar Cells with over 17% Efficiency. <i>Advanced Energy Materials</i> , 2016, 6, 1501873.	19.5	206
38	Trapped charge-driven degradation of perovskite solar cells. <i>Nature Communications</i> , 2016, 7, 13422.	12.8	464
39	Electronically tunable extraordinary optical transmission in graphene plasmonic ribbons coupled to subwavelength metallic slit arrays. <i>Nature Communications</i> , 2016, 7, 12323.	12.8	95
40	A light-trapping strategy for nanocrystalline silicon thin-film solar cells using three-dimensionally assembled nanoparticle structures. <i>Nanotechnology</i> , 2016, 27, 055403.	2.6	16
41	Reliable doping and carrier concentration control in graphene by aerosol-derived metal nanoparticles. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8294-8299.	5.5	16
42	Electronic modulation of infrared radiation in graphene plasmonic resonators. <i>Nature Communications</i> , 2015, 6, 7032.	12.8	213
43	Tunable large resonant absorption in a midinfrared graphene Salisbury screen. <i>Physical Review B</i> , 2014, 90, .	3.2	155
44	Hybrid Surface-Phonon-Plasmon Polariton Modes in Graphene/Monolayer h-BN Heterostructures. <i>Nano Letters</i> , 2014, 14, 3876-3880.	9.1	296
45	Energy Efficient Scalable Video Coding Based Cooperative Multicast Scheme with Selective Layer Forwarding. <i>IEEE Communications Letters</i> , 2013, 17, 1116-1119.	4.1	12
46	Highly Confined Tunable Mid-Infrared Plasmonics in Graphene Nanoresonators. <i>Nano Letters</i> , 2013, 13, 2541-2547.	9.1	486
47	Graphene field effect transistor without an energy gap. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8786-8789.	7.1	72
48	Plasmonic Rainbow Trapping Structures for Light Localization and Spectrum Splitting. <i>Physical Review Letters</i> , 2011, 107, 207401.	7.8	108
49	Time dependent behavior of a localized electron at a heterojunction boundary of graphene. <i>Applied Physics Letters</i> , 2010, 97, 043504.	3.3	17
50	Thermal Runaway of Silicon-Based Laser Sails. <i>Advanced Optical Materials</i> , 0, , 2102835.	7.3	6