

Daehan Yoo

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,655
citations

430442

18
h-index

500791

28
g-index

34
all docs

34
docs citations

34
times ranked

2588
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene acoustic plasmon resonator for ultrasensitive infrared spectroscopy. <i>Nature Nanotechnology</i> , 2019, 14, 313-319.	15.6	210
2	Resolving molecule-specific information in dynamic lipid membrane processes with multi-resonant infrared metasurfaces. <i>Nature Communications</i> , 2018, 9, 2160.	5.8	176
3	Infrared Plasmonic Biosensor for Real-Time and Label-Free Monitoring of Lipid Membranes. <i>Nano Letters</i> , 2016, 16, 1502-1508.	4.5	152
4	Dielectrophoresis-Enhanced Plasmonic Sensing with Gold Nanohole Arrays. <i>Nano Letters</i> , 2014, 14, 2006-2012.	4.5	149
5	Low-Power Optical Trapping of Nanoparticles and Proteins with Resonant Coaxial Nanoaperture Using 10 nm Gap. <i>Nano Letters</i> , 2018, 18, 3637-3642.	4.5	134
6	Three-Dimensional Integration of Black Phosphorus Photodetector with Silicon Photonics and Nanoplasmonics. <i>Nano Letters</i> , 2017, 17, 985-991.	4.5	111
7	High-Contrast Infrared Absorption Spectroscopy via Mass-Produced Coaxial Zero-Mode Resonators with Sub-10 nm Gaps. <i>Nano Letters</i> , 2018, 18, 1930-1936.	4.5	88
8	High-Throughput Fabrication of Resonant Metamaterials with Ultrasmall Coaxial Apertures via Atomic Layer Lithography. <i>Nano Letters</i> , 2016, 16, 2040-2046.	4.5	84
9	Template-Stripped Tunable Plasmonic Devices on Stretchable and Rollable Substrates. <i>ACS Nano</i> , 2015, 9, 10647-10654.	7.3	79
10	Ultrastrong plasmon-phonon coupling via epsilon-near-zero nanocavities. <i>Nature Photonics</i> , 2021, 15, 125-130.	15.6	78
11	Plasmonic Nanohole Sensor for Capturing Single Virus-Like Particles toward Virucidal Drug Evaluation. <i>Small</i> , 2016, 12, 1159-1166.	5.2	57
12	Waveguide-Integrated Compact Plasmonic Resonators for On-Chip Mid-Infrared Laser Spectroscopy. <i>Nano Letters</i> , 2018, 18, 7601-7608.	4.5	56
13	A natural human IgM that binds to gangliosides is therapeutic in murine models of amyotrophic lateral sclerosis. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 831-42.	1.2	38
14	Ultrasmall Plasmonic Single Nanoparticle Light Source Driven by a Graphene Tunnel Junction. <i>ACS Nano</i> , 2018, 12, 2780-2788.	7.3	35
15	Real-space imaging of acoustic plasmons in large-area graphene grown by chemical vapor deposition. <i>Nature Communications</i> , 2021, 12, 938.	5.8	33
16	Gap Plasmon Enhanced Metasurface Third-Harmonic Generation in Transmission Geometry. <i>ACS Photonics</i> , 2016, 3, 1461-1467.	3.2	31
17	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. <i>Nature Communications</i> , 2019, 10, 4476.	5.8	26
18	Impact of Surface Roughness in Nanogap Plasmonic Systems. <i>ACS Photonics</i> , 2020, 7, 908-913.	3.2	25

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19	Lipid Membrane Deformation Accompanied by Disk-to-Ring Shape Transition of Cholesterol-Rich Domains. <i>Journal of the American Chemical Society</i> , 2015, 137, 8692-8695.	6.6	18
20	Plasmonic Split-Trench Resonator for Trapping and Sensing. <i>ACS Nano</i> , 2021, 15, 6669-6677.	7.3	17
21	Waveguide-integrated mid-infrared plasmonics with high-efficiency coupling for ultracompact surface-enhanced infrared absorption spectroscopy. <i>Optics Express</i> , 2018, 26, 23540.	1.7	15
22	Nano-Optical Tweezers: Methods and Applications for Trapping Single Molecules and Nanoparticles. <i>ChemPhysChem</i> , 2021, 22, 1409-1420.	1.0	12
23	Escalated Photocurrent with Excitation Energy in Dual-Gated MoTe ₂ . <i>Nano Letters</i> , 2021, 21, 1976-1981.	4.5	8
24	Open-channel microfluidics via resonant wireless power transfer. <i>Nature Communications</i> , 2022, 13, 1869.	5.8	8
25	Ge Implantation to Improve Crystallinity and Productivity for Solid Phase Epitaxy Prepared by Atomic Mass Unit Cross Contamination-Free Technique. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L1193-L1196.	0.8	4
26	Curvature Elasticity-Driven Leaflet Asymmetry and Interleaflet Raft Coupling in Supported Membranes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801290.	1.9	4
27	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. <i>Optics Express</i> , 2020, 28, 8701.	1.7	4
28	Nano-Optical Tweezers: Methods and Applications for Trapping Single Molecules and Nanoparticles. <i>ChemPhysChem</i> , 2021, 22, 1408-1408.	1.0	2
29	Black Phosphorus Photodetector on Silicon Photonic and Plasmonic Hybrid Platform. , 2016, , .		1
30	Lipid Membranes: Curvature Elasticity-Driven Leaflet Asymmetry and Interleaflet Raft Coupling in Supported Membranes (Adv. Mater. Interfaces 23/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870117.	1.9	0
31	Mid-Infrared Plasmonic Coaxial Nanorings for Surface Enhanced Infrared Absorption (SEIRA) Spectroscopy. , 2017, , .		0
32	Mid-Infrared Nanoplasmonics for Label-free Real-time Biosensing of Proteins and Lipid Membranes. , 2017, , .		0
33	Surface-Enhanced Infrared Absorption Spectroscopy via Coaxial Zero-Mode Resonators with Sub-10-nm Gaps. , 2018, , .		0