Hyeong-Ryeol Park

List of Publications by Year
in descending order

22	939	623734 14	752698 20
papers	citations	h-index	g-index

23	23	23	1108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomic layer lithography of wafer-scale nanogap arrays for extreme confinement of electromagnetic waves. Nature Communications, 2013, 4, 2361.	12.8	286
2	Colossal Absorption of Molecules Inside Single Terahertz Nanoantennas. Nano Letters, 2013, 13, 1782-1786.	9.1	178
3	Terahertz Biochemical Moleculeâ€Specific Sensors. Advanced Optical Materials, 2020, 8, 1900662.	7.3	95
4	Nanogap-Enhanced Terahertz Sensing of 1 nm Thick (Î»/10⁶) Dielectric Films. ACS Photonics, 2015, 2, 417-424.	6.6	85
5	Controlling Terahertz Radiation with Nanoscale Metal Barriers Embedded in Nano Slot Antennas. ACS Nano, 2011, 5, 8340-8345.	14.6	66
6	Squeezing Millimeter Waves through a Single, Nanometer-wide, Centimeter-long Slit. Scientific Reports, 2014, 4, 6722.	3.3	34
7	Perfect Extinction of Terahertz Waves in Monolayer Graphene over 2â€nmâ€Wide Metallic Apertures. Advanced Optical Materials, 2015, 3, 667-673.	7.3	28
8	Largeâ€Area Metal Gaps and Their Optical Applications. Advanced Optical Materials, 2019, 7, 1800426.	7.3	27
9	Drift-dominant exciton funneling and trion conversion in 2D semiconductors on the nanogap. Science Advances, 2022, 8, eabm5236.	10.3	21
10	Terahertz pinch harmonics enabled by single nano rods. Optics Express, 2011, 19, 24775.	3.4	20
11	Selfâ€Assembled Multifunctional 3D Microdevices. Advanced Electronic Materials, 2016, 2, 1500459.	5.1	20
12	Electromagnon with Sensitive Terahertz Magnetochromism in a Room-Temperature Magnetoelectric Hexaferrite. Physical Review Letters, 2018, 120, 027202.	7.8	19
13	Anomalous extinction in index-matched terahertz nanogaps. Nanophotonics, 2018, 7, 347-354.	6.0	17
14	High-density metallic nanogap arrays for the sensitive detection of single-walled carbon nanotube thin films. Faraday Discussions, 2015, 178, 195-201.	3.2	16
15	Three-Dimensional Anisotropic Metamaterials as Triaxial Optical Inclinometers. Scientific Reports, 2017, 7, 2680.	3.3	11
16	Measuring Complex Refractive Indices of a Nanometer-Thick Superconducting Film Using Terahertz Time-Domain Spectroscopy with a 10 Femtoseconds Pulse Laser. Crystals, 2021, 11, 651.	2.2	5
17	Beyond-hot-spot absorption enhancement on top of terahertz nanotrenches. Nanophotonics, 2022, 11, 3159-3167.	6.0	5
18	THz Biochemical Sensors: Terahertz Biochemical Moleculeâ€Specific Sensors (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	7.3	3

#	Article	IF	Citations
19	Terahertz spectroscopy of high temperature superconductors and their photonic applications. Journal of the Korean Physical Society, 2022, 81, 490-501.	0.7	2
20	Terahertz Waves: Perfect Extinction of Terahertz Waves in Monolayer Graphene over 2-nm-Wide Metallic Apertures (Advanced Optical Materials 5/2015). Advanced Optical Materials, 2015, 3, 714-714.	7.3	1
21	Surface plasmon-enhanced terahertz emission from single layer graphene. , 2012, , .		0
22	3D Microelectronics: Selfâ€Assembled Multifunctional 3D Microdevices (Adv. Electron. Mater. 6/2016). Advanced Electronic Materials, 2016, 2, .	5.1	0