

Seungchul Kim

List of Publications by Year in Descending Order

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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.

56
papers

2,792
citations

17
h-index

52
g-index

82
ext. papers

3,148
ext. citations

8.2
avg. IF

4.75
L-index

#	Paper	IF	Citations
56	Recent trends in high-order harmonic generation in solids. <i>Advances in Physics: X</i> , 2022 , 7,	5.1	0
55	Enhanced third harmonic generation in ultrathin free-standing AlGaO nanomembranes: study on surface and bulk contribution.. <i>Nanoscale</i> , 2021 , 14, 175-186	7.7	1
54	Plasmonic sensing, imaging, and stimulation techniques for neuron studies. <i>Biosensors and Bioelectronics</i> , 2021 , 182, 113150	11.8	1
53	Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. <i>Nanoscale</i> , 2021 , 13, 878-885	7.7	2
52	Fiber-Optic Localized Surface Plasmon Resonance Sensors Based on Nanomaterials. <i>Sensors</i> , 2021 , 21,	3.8	10
51	Surface-Plasmonic-Field-Induced Photoredox Catalysis and Mediated Electron Transfer for Washing-Free DNA Detection. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19202-19208	16.4	1
50	Dual-Mode Colorimetric Sensor Based on Ultrathin Resonating Facilitator Capable of Nanometer-Thick Virus Detection for Environment Monitoring. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6638-6644 ^{5,6}	5.6	6
49	Wafer-scale high-quality Ag thin film using a ZnO buffer layer for plasmonic applications. <i>Applied Surface Science</i> , 2020 , 512, 145705	6.7	2
48	Large-area grain-boundary-free copper films for plasmonics. <i>Applied Surface Science</i> , 2020 , 521, 146377	6.7	5
47	3D super-resolved imaging in live cells using sub-diffractive plasmonic localization of hybrid nanopillar arrays. <i>Nanophotonics</i> , 2020 , 9, 2847-2859	6.3	2
46	Attachable micropseudocapacitors using highly swollen laser-induced-graphene electrodes. <i>Chemical Engineering Journal</i> , 2020 , 386, 123972	14.7	5
45	Spectral Shifting in Extraordinary Optical Transmission by Polarization-Dependent Surface Plasmon Coupling. <i>Plasmonics</i> , 2020 , 15, 489-494	2.4	6
44	Large-Area Virus Coated Ultrathin Colorimetric Sensors with a Highly Lossy Resonant Promoter for Enhanced Chromaticity. <i>Advanced Science</i> , 2020 , 7, 2000978	13.6	15
43	Interferometric time- and energy-resolved photoemission electron microscopy for few-femtosecond nanoplasmonic dynamics. <i>Review of Scientific Instruments</i> , 2019 , 90, 093904	1.7	4
42	Spectral Interference in High Harmonic Generation from Solids. <i>ACS Photonics</i> , 2019 , 6, 851-857	6.3	24
41	Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. <i>Nature Communications</i> , 2019 , 10, 3272	17.4	14
40	Experimental confirmation of plasmonic field cancellation under specific conditions of trapezoidal nanopatterns. <i>Optics Express</i> , 2019 , 27, 29168-29177	3.3	

39	Plasmonic dynamics measured with frequency-comb-referenced phase spectroscopy. <i>Nature Physics</i> , 2019 , 15, 132-137	16.2	5
38	Surface third and fifth harmonic generation at crystalline Si for non-invasive inspection of Si wafer's inter-layer defects. <i>Optics Express</i> , 2018 , 26, 32812-32823	3.3	8
37	Effect of Moisture Content and Particle Size on Extinction Coefficients of Soils Using Terahertz Time-Domain Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017 , 7, 529-535	3.4	8
36	Mussel-inspired surface functionalization of porous carbon nanosheets using polydopamine and Fe ³⁺ /tannic acid layers for high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25368-25377	13	32
35	Generation of Coherent Extreme-Ultraviolet Radiation from Bulk Sapphire Crystal. <i>ACS Photonics</i> , 2017 , 4, 1627-1632	6.3	37
34	Measuring elastic modulus of bacterial biofilms in a liquid phase using atomic force microscopy. <i>Geomechanics and Engineering</i> , 2017 , 12, 863-870		3
33	High-harmonic generation by field enhanced femtosecond pulses in metal-sapphire nanostructure. <i>Nature Communications</i> , 2016 , 7, 13105	17.4	106
32	17.6%-Efficient radial junction solar cells using silicon nano/micro hybrid structures. <i>Nanoscale</i> , 2016 , 8, 14473-9	7.7	29
31	Frequency comb transferred by surface plasmon resonance. <i>Nature Communications</i> , 2016 , 7, 10685	17.4	10
30	CEP-stable, sub-6 fs, 300-kHz OPCPA system with more than 15 W of average power. <i>Optics Express</i> , 2015 , 23, 1388-94	3.3	36
29	Observation of strongly enhanced ultrashort pulses in 3-D metallic funnel-waveguide. <i>Optics Express</i> , 2014 , 22, 17360-9	3.3	
28	Time-domain stabilization of carrier-envelope phase in femtosecond light pulses. <i>Optics Express</i> , 2014 , 22, 11788-96	3.3	9
27	Components for bidirectional augmented broadcasting services on smart TVs. <i>Multimedia Tools and Applications</i> , 2013 , 67, 687-708	2.5	
26	Generation of EUV radiation by plasmonic field enhancement using nano-structured bowties and funnel-waveguides. <i>Annalen Der Physik</i> , 2013 , 525, 87-96	2.6	32
25	Minimal single-particle Hamiltonian for charge carriers in epitaxial graphene on 4H-SiC(0001): Broken-symmetry states at Dirac points. <i>Solid State Communications</i> , 2013 , 175-176, 83-89	1.6	4
24	Phase shifting interferometry for large-sized surface measurements by sweeping the repetition rate of femtosecond light pulses. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 241-246	1.7	9
23	Home appliances controlling through Smart TV set-top box with screen-mirroring remote controller 2013 ,		2
22	Femtosecond laser pulses for fast 3-D surface profilometry of microelectronic step-structures. <i>Optics Express</i> , 2013 , 21, 15323-34	3.3	25

21	High-harmonic and single attosecond pulse generation using plasmonic field enhancement in ordered arrays of gold nanoparticles with chirped laser pulses. <i>Optics Express</i> , 2013 , 21, 2195-205	3.3	49
20	Kim et al. reply. <i>Nature</i> , 2012 , 485, E2-E3	50.4	71
19	Generation of isolated attosecond pulses using a plasmonic funnel-waveguide. <i>New Journal of Physics</i> , 2012 , 14, 103038	2.9	16
18	Plasmonic field enhancement for generating ultrashort extreme-ultraviolet light pulses 2011 ,		3
17	Plasmonic generation of ultrashort extreme-ultraviolet light pulses. <i>Nature Photonics</i> , 2011 , 5, 677-681	33.9	255
16	Field-induced recovery of massless Dirac fermions in epitaxial graphene on SiC. <i>Carbon</i> , 2011 , 49, 2300-2305	30.4	9
15	High harmonic generation by guided surface plasmon polaritons 2010 ,		3
14	Controlling half-metallicity of graphene nanoribbons by using a ferroelectric polymer. <i>ACS Nano</i> , 2010 , 4, 1345-50	16.7	82
13	Hydrogen storage in Ca-decorated, B-substituted metal organic framework. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 198-203	6.7	34
12	High Harmonic Generation by Resonant Plasmon Field Enhancement 2010 ,		1
11	High Harmonic Generation by Plasmonic Enhancement of Femtosecond Pulse Laser. <i>Springer Series in Chemical Physics</i> , 2010 , 129-144	0.3	5
10	Microscopic origin of current degradation of fully-sealed carbon-nanotube field emission display. <i>Solid State Communications</i> , 2009 , 149, 670-672	1.6	9
9	High-harmonic generation by resonant plasmon field enhancement. <i>Nature</i> , 2008 , 453, 757-60	50.4	1097
8	Monovacancy-induced magnetism in graphene bilayers. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 235220	1.8	20
7	Origin of anomalous electronic structures of epitaxial graphene on silicon carbide. <i>Physical Review Letters</i> , 2008 , 100, 176802	7.4	314
6	First-principles dynamic simulations of field emission from carbon nanotubes on gold substrate. <i>Physical Review B</i> , 2007 , 75,	3.3	4
5	AFM-based nanofabrication with assistance of femtosecond pulse laser radiation. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 550-554	0.3	1
4	Conformational molecular switch of the azobenzene molecule: a scanning tunneling microscopy study. <i>Physical Review Letters</i> , 2006 , 96, 156106	7.4	331

3	VLSI Implementation of H.264 Video Decoder for Mobile Multimedia Application. <i>ETRI Journal</i> , 2006 , 28, 525-528	1.4	5
2	Electronic structure of defects and quantum transport in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 7-10	2.8	17
1	A Platform-Based SoC Design of a 32-Bit Smart Card. <i>ETRI Journal</i> , 2003 , 25, 510-516	1.4	12