

Seungchul Kim

List of Publications by Citations

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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 | High-harmonic generation by resonant plasmon field enhancement. <i>Nature</i> , 2008 , 453, 757-60 | 50.4 | 1097 |
| 55 | Conformational molecular switch of the azobenzene molecule: a scanning tunneling microscopy study. <i>Physical Review Letters</i> , 2006 , 96, 156106 | 7.4 | 331 |
| 54 | Origin of anomalous electronic structures of epitaxial graphene on silicon carbide. <i>Physical Review Letters</i> , 2008 , 100, 176802 | 7.4 | 314 |
| 53 | Plasmonic generation of ultrashort extreme-ultraviolet light pulses. <i>Nature Photonics</i> , 2011 , 5, 677-681 | 33.9 | 255 |
| 52 | High-harmonic generation by field enhanced femtosecond pulses in metal-sapphire nanostructure. <i>Nature Communications</i> , 2016 , 7, 13105 | 17.4 | 106 |
| 51 | Controlling half-metallicity of graphene nanoribbons by using a ferroelectric polymer. <i>ACS Nano</i> , 2010 , 4, 1345-50 | 16.7 | 82 |
| 50 | Kim et al. reply. <i>Nature</i> , 2012 , 485, E2-E3 | 50.4 | 71 |
| 49 | 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 |
| 48 | Generation of Coherent Extreme-Ultraviolet Radiation from Bulk Sapphire Crystal. <i>ACS Photonics</i> , 2017 , 4, 1627-1632 | 6.3 | 37 |
| 47 | 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 |
| 46 | Hydrogen storage in Ca-decorated, B-substituted metal organic framework. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 198-203 | 6.7 | 34 |
| 45 | 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 |
| 44 | 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 |
| 43 | 17.6%-Efficient radial junction solar cells using silicon nano/micro hybrid structures. <i>Nanoscale</i> , 2016 , 8, 14473-9 | 7.7 | 29 |
| 42 | Femtosecond laser pulses for fast 3-D surface profilometry of microelectronic step-structures. <i>Optics Express</i> , 2013 , 21, 15323-34 | 3.3 | 25 |
| 41 | Spectral Interference in High Harmonic Generation from Solids. <i>ACS Photonics</i> , 2019 , 6, 851-857 | 6.3 | 24 |
| 40 | Monovacancy-induced magnetism in graphene bilayers. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 235220 | 1.8 | 20 |

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|----|---|------|----|
| 39 | Electronic structure of defects and quantum transport in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 7-10 | 2.8 | 17 |
| 38 | Generation of isolated attosecond pulses using a plasmonic funnel-waveguide. <i>New Journal of Physics</i> , 2012 , 14, 103038 | 2.9 | 16 |
| 37 | 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 |
| 36 | Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. <i>Nature Communications</i> , 2019 , 10, 3272 | 17.4 | 14 |
| 35 | A Platform-Based SoC Design of a 32-Bit Smart Card. <i>ETRI Journal</i> , 2003 , 25, 510-516 | 1.4 | 12 |
| 34 | Frequency comb transferred by surface plasmon resonance. <i>Nature Communications</i> , 2016 , 7, 10685 | 17.4 | 10 |
| 33 | Fiber-Optic Localized Surface Plasmon Resonance Sensors Based on Nanomaterials. <i>Sensors</i> , 2021 , 21, | 3.8 | 10 |
| 32 | 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 |
| 31 | Time-domain stabilization of carrier-envelope phase in femtosecond light pulses. <i>Optics Express</i> , 2014 , 22, 11788-96 | 3.3 | 9 |
| 30 | 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 |
| 29 | Field-induced recovery of massless Dirac fermions in epitaxial graphene on SiC. <i>Carbon</i> , 2011 , 49, 2300-2304 | 20.4 | 9 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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, 6636-6644 | 5.6 | 6 |
| 25 | Spectral Shifting in Extraordinary Optical Transmission by Polarization-Dependent Surface Plasmon Coupling. <i>Plasmonics</i> , 2020 , 15, 489-494 | 2.4 | 6 |
| 24 | Large-area grain-boundary-free copper films for plasmonics. <i>Applied Surface Science</i> , 2020 , 521, 146377 | 6.7 | 5 |
| 23 | VLSI Implementation of H.264 Video Decoder for Mobile Multimedia Application. <i>ETRI Journal</i> , 2006 , 28, 525-528 | 1.4 | 5 |
| 22 | High Harmonic Generation by Plasmonic Enhancement of Femtosecond Pulse Laser. <i>Springer Series in Chemical Physics</i> , 2010 , 129-144 | 0.3 | 5 |

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|----|---|------|---|
| 21 | Attachable micropseudocapacitors using highly swollen laser-induced-graphene electrodes. <i>Chemical Engineering Journal</i> , 2020 , 386, 123972 | 14.7 | 5 |
| 20 | Plasmonic dynamics measured with frequency-comb-referenced phase spectroscopy. <i>Nature Physics</i> , 2019 , 15, 132-137 | 16.2 | 5 |
| 19 | 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 |
| 18 | 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 |
| 17 | First-principles dynamic simulations of field emission from carbon nanotubes on gold substrate. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 4 |
| 16 | Plasmonic field enhancement for generating ultrashort extreme-ultraviolet light pulses 2011 , | | 3 |
| 15 | High harmonic generation by guided surface plasmon polaritons 2010 , | | 3 |
| 14 | Measuring elastic modulus of bacterial biofilms in a liquid phase using atomic force microscopy. <i>Geomechanics and Engineering</i> , 2017 , 12, 863-870 | | 3 |
| 13 | 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 |
| 12 | Home appliances controlling through Smart TV set-top box with screen-mirroring remote controller 2013 , | | 2 |
| 11 | 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 |
| 10 | Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. <i>Nanoscale</i> , 2021 , 13, 878-885 | 7.7 | 2 |
| 9 | 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 |
| 8 | AFM-based nanofabrication with assistance of femtosecond pulse laser radiation. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 550-554 | 0.3 | 1 |
| 7 | Enhanced third harmonic generation in ultrathin free-standing β -GaO nanomembranes: study on surface and bulk contribution.. <i>Nanoscale</i> , 2021 , 14, 175-186 | 7.7 | 1 |
| 6 | High Harmonic Generation by Resonant Plasmon Field Enhancement 2010 , | | 1 |
| 5 | Plasmonic sensing, imaging, and stimulation techniques for neuron studies. <i>Biosensors and Bioelectronics</i> , 2021 , 182, 113150 | 11.8 | 1 |
| 4 | Recent trends in high-order harmonic generation in solids. <i>Advances in Physics: X</i> , 2022 , 7, | 5.1 | 0 |

- 3 Components for bidirectional augmented broadcasting services on smart TVs. *Multimedia Tools and Applications*, **2013**, 67, 687-708 2.5
- 2 Observation of strongly enhanced ultrashort pulses in 3-D metallic funnel-waveguide. *Optics Express*, **2014**, 22, 17360-9 3.3
- 1 Experimental confirmation of plasmonic field cancellation under specific conditions of trapezoidal nanopatterns. *Optics Express*, **2019**, 27, 29168-29177 3.3