# Jungho Mun

## List of Publications by Citations



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|---|---|---|---|
| 38 papers | 1,327 citations | 17 h-index | 36 g-index |
| 40 ext. papers | 1,882 ext. citations | 9 avg, IF | 5.11 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 38 | Amino-acid- and peptide-directed synthesis of chiral plasmonic gold nanoparticles. *Nature*, **2018**, 556, 360-365 | 50.4 | 446 |
| 37 | Simultaneous Inverse Design of Materials and Structures via Deep Learning: Demonstration of Dipole Resonance Engineering Using Core-Shell Nanoparticles. *ACS Applied Materials & Interfaces*, **2019**, 11, 24264-24268 | 9.5 | 109 |
| 36 | Electromagnetic chirality: from fundamentals to nontraditional chiroptical phenomena. *Light: Science and Applications*, **2020**, 9, 139 | 16.7 | 85 |
| 35 | Smart SERS Hot Spots: Single Molecules Can Be Positioned in a Plasmonic Nanojunction Using Host-Guest Chemistry. *Journal of the American Chemical Society*, **2018**, 140, 4705-4711 | 16.4 | 70 |
| 34 | Cysteine-encoded chirality evolution in plasmonic rhombic dodecahedral gold nanoparticles. *Nature Communications*, **2020**, 11, 263 | 17.4 | 54 |
| 33 | Pixelated bifunctional metasurface-driven dynamic vectorial holographic color prints for photonic security platform. *Nature Communications*, **2021**, 12, 3614 | 17.4 | 52 |
| 32 | Spectral Modulation through the Hybridization of Mie-Scatterers and Quasi-Guided Mode Resonances: Realizing Full and Gradients of Structural Color. *ACS Nano*, **2020**, 14, 15317-15326 | 16.7 | 44 |
| 31 | Metasurfaces-Based Absorption and Reflection Control: Perfect Absorbers and Reflectors. *Journal of Nanomaterials*, **2017**, 2017, 1-18 | 3.2 | 42 |
| 30 | Realization of Wafer-Scale Hyperlens Device for Sub-diffractional Biomolecular Imaging. *ACS Photonics*, **2018**, 5, 2549-2554 | 6.3 | 41 |
| 29 | Fabrication of three-dimensional suspended, interlayered and hierarchical nanostructures by accuracy-improved electron beam lithography overlay. *Scientific Reports*, **2017**, 7, 6668 | 4.9 | 37 |
| 28 | Polarization-sensitive tunable absorber in visible and near-infrared regimes. *Scientific Reports*, **2018**, 8, 12393 | 4.9 | 33 |
| 27 | Wavelength-decoupled geometric metasurfaces by arbitrary dispersion control. *Communications Physics*, **2019**, 2, | 5.4 | 33 |
| 26 | Near-zero reflection of all-dielectric structural coloration enabling polarization-sensitive optical encryption with enhanced switchability. *Nanophotonics*, **2020**, 10, 919-926 | 6.3 | 32 |
| 25 | Electrically tunable metasurface perfect absorber for infrared frequencies. *Nano Convergence*, **2017**, 4, 36 | 9.2 | 30 |
| 24 | Full and gradient structural colouration by lattice amplified gallium nitride Mie-resonators. *Nanoscale*, **2020**, 12, 21392-21400 | 7.7 | 23 |
| 23 | Describing Meta-Atoms Using the Exact Higher-Order Polarizability Tensors. *ACS Photonics*, **2020**, 7, 1153-1162 | 6.3 | 21 |
| 22 | Metasurface zone plate for light manipulation in vectorial regime. *Communications Physics*, **2019**, 2, | 5.4 | 21 |

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| 21 | Importance of higher-order multipole transitions on chiral nearfield interactions. *Nanophotonics*, **2019**, 8, 941-948 | 6.3 | 17 |
| 20 | Visualization and Investigation of Charge Transport in Mixed-Halide Perovskite via Lateral-Structured Photovoltaic Devices. *Advanced Functional Materials*, **2018**, 28, 1804067 | 15.6 | 17 |
| 19 | Capillary-force-induced collapse lithography for controlled plasmonic nanogap structures. *Microsystems and Nanoengineering*, **2020**, 6, 65 | 7.7 | 17 |
| 18 | Backward Phase-Matched Second-Harmonic Generation from Stacked Metasurfaces. *Physical Review Letters*, **2021**, 126, 033901 | 7.4 | 14 |
| 17 | Surface-enhanced spectroscopy: Toward practical analysis probe. *Applied Spectroscopy Reviews*, **2019**, 54, 142-175 | 4.5 | 12 |
| 16 | Accordion-like plasmonic silver nanorod array exhibiting multiple electromagnetic responses. *NPG Asia Materials*, **2018**, 10, 190-196 | 10.3 | 9 |
| 15 | Demonstration of steering acoustic waves by generalized Eaton lens. *Applied Physics Letters*, **2018**, 113, 161904 | 3.4 | 9 |
| 14 | Surface-enhanced circular dichroism by multipolar radiative coupling. *Optics Letters*, **2018**, 43, 2856-2859 | 3 | 8 |
| 13 | Singlet Exciton Delocalization in Gold Nanoparticle-Tethered Poly(3-hexylthiophene) Nanofibers with Enhanced Intrachain Ordering. *Macromolecules*, **2017**, 50, 8487-8496 | 5.5 | 7 |
| 12 | Ultra-Sharp Circular Dichroism Induced by Twisted Layered C4 Oligomers. *Advanced Theory and Simulations*, **2020**, 3, 1900229 | 3.5 | 7 |
| 11 | Multipole decomposition for interactions between structured optical fields and meta-atoms. *Optics Express*, **2020**, 28, 36756-36770 | 3.3 | 6 |
| 10 | Open-circuit voltage of organic solar cells: Effect of energetically and spatially nonuniform distribution of molecular energy levels in the photoactive layer. *Nano Energy*, **2020**, 78, 105336 | 17.1 | 6 |
| 9 | Flexible high-performance graphene hybrid photodetectors functionalized with gold nanostars and perovskites. *NPG Asia Materials*, **2020**, 12, | 10.3 | 5 |
| 8 | Charge Recycling Mechanism Through a Triplet Charge-Transfer State in Ternary-Blend Organic Solar Cells Containing a Nonfullerene Acceptor. *ACS Energy Letters*, **2021**, 6, 2610-2618 | 20.1 | 5 |
| 7 | Spectrally Sharp Plasmon Resonances in the Near Infrared: Subwavelength Core-shell Nanoparticles. *Physical Review Applied*, **2019**, 12, | 4.3 | 4 |
| 6 | Second Harmonic Optical Circular Dichroism of Plasmonic Chiral Helicoid-III Nanoparticles.. *ACS Photonics*, **2022**, 9, 784-792 | 6.3 | 4 |
| 5 | Effect of Hot-Electron Injection on the Excited-State Dynamics of a Hybrid Plasmonic System Containing Poly(3-hexylthiophene)-Coated Gold Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 26564-26570 | 3.8 | 3 |
| 4 | Elucidating the photoluminescence-enhancement mechanism in a push-pull conjugated polymer induced by hot-electron injection from gold nanoparticles. *Photonics Research*, **2021**, 9, 131 | 6 | 3 |

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| 3 | Realization of Artificial Chirality in Micro-/Nano-Scale Three-Dimensional Plasmonic Structures. *Topics in Applied Physics*, **2021**, 241-263 | 0.5 | 0 |
| 2 | Augmented Photoluminescence in a Conjugated Polymer by the Incorporation of CdSe/CdS Quantum Dots. *Journal of Physical Chemistry C*, **2020**, 124, 20605-20613 | 3.8 | |
| 1 | Nanofabrication of Plasmonic Structures **2022**, 85-134 | | |