

Xiang-Tian Kong

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,856
citations

331670

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265206

42
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50
all docs

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docs citations

50
times ranked

2804
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Understanding Hot-Electron Generation and Plasmon Relaxation in Metal Nanocrystals: Quantum and Classical Mechanisms. ACS Photonics, 2017, 4, 2759-2781. | 6.6 | 233 |
| 2 | Boosting Hot Electron-Driven Photocatalysis through Anisotropic Plasmonic Nanoparticles with Hot Spots in Au@TiO ₂ Nanoarchitectures. Journal of Physical Chemistry C, 2016, 120, 11690-11699. | 3.1 | 201 |
| 3 | Photothermal Circular Dichroism Induced by Plasmon Resonances in Chiral Metamaterial Absorbers and Bolometers. Nano Letters, 2018, 18, 2001-2008. | 9.1 | 123 |
| 4 | Chiral Plasmonic Nanostructures Enabled by Bottom-Up Approaches. Annual Review of Physical Chemistry, 2019, 70, 275-299. | 10.8 | 106 |
| 5 | Polarization-dependent optical absorption of graphene under total internal reflection. Applied Physics Letters, 2013, 102, . | 3.3 | 95 |
| 6 | Near-Infrared, Heavy Metal-Free Colloidal Giant-Core/Shell Quantum Dots. Advanced Energy Materials, 2018, 8, 1701432. | 19.5 | 90 |
| 7 | Plasmonic Chirality and Circular Dichroism in Bioassembled and Nonbiological Systems: Theoretical Background and Recent Progress. Advanced Materials, 2020, 32, e1801790. | 21.0 | 89 |
| 8 | Plasmonic Nanostars with Hot Spots for Efficient Generation of Hot Electrons under Solar Illumination. Advanced Optical Materials, 2017, 5, . | 7.3 | 79 |
| 9 | Sensitive Real-Time Monitoring of Refractive Indexes Using a Novel Graphene-Based Optical Sensor. Scientific Reports, 2012, 2, 908. | 3.3 | 72 |
| 10 | Graphene-Based Ultrathin Flat Lenses. ACS Photonics, 2015, 2, 200-207. | 6.6 | 70 |
| 11 | Tunable Nonthermal Distribution of Hot Electrons in a Semiconductor Injected from a Plasmonic Gold Nanostructure. ACS Nano, 2018, 12, 7117-7126. | 14.6 | 65 |
| 12 | Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal Giant-Core/Shell Quantum Dots. Advanced Science, 2018, 5, 1800656. | 11.2 | 63 |
| 13 | Enhanced generation and anisotropic Coulomb scattering of hot electrons in an ultra-broadband plasmonic nanopatch metasurface. Nature Communications, 2017, 8, 986. | 12.8 | 57 |
| 14 | Efficiency of Hot-Electron Generation in Plasmonic Nanocrystals with Complex Shapes: Surface-Induced Scattering, Hot Spots, and Interband Transitions. ACS Photonics, 2020, 7, 2807-2824. | 6.6 | 55 |
| 15 | Plasmonic Glasses and Films Based on Alternative Inexpensive Materials for Blocking Infrared Radiation. Nano Letters, 2018, 18, 3147-3156. | 9.1 | 43 |
| 16 | Graphene plasmon propagation on corrugated silicon substrates. Optics Letters, 2015, 40, 1. | 3.3 | 29 |
| 17 | Far-field midinfrared superresolution imaging and spectroscopy of single high aspect ratio gold nanowires. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2288-2293. | 7.1 | 28 |
| 18 | Engineering Strongly Chiral Plasmonic Lattices with Achiral Unit Cells for Sensing and Photodetection. Advanced Optical Materials, 2022, 10, . | 7.3 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Chiral Bioinspired Plasmonics: A Paradigm Shift for Optical Activity and Photochemistry. ACS Photonics, 2022, 9, 2219-2236. | 6.6 | 26 |
| 20 | Mode converter in metal-insulator-metal plasmonic waveguide designed by transformation optics. Optics Express, 2013, 21, 9437. | 3.4 | 23 |
| 21 | Enhanced reflection from inverse tapered nanocone arrays. Applied Physics Letters, 2014, 105, . | 3.3 | 23 |
| 22 | Active Far-Field Control of the Thermal Near-Field <i>via</i> Plasmon Hybridization. ACS Nano, 2019, 13, 9655-9663. | 14.6 | 23 |
| 23 | Chiral Optofluidics with a Plasmonic Metasurface Using the Photothermal Effect. ACS Nano, 2021, 15, 16357-16367. | 14.6 | 23 |
| 24 | Fabry-Pérot resonance in slit and grooves to enhance the transmission through a single subwavelength slit. Journal of Optics, 2009, 11, 105002. | 1.5 | 20 |
| 25 | Traveling Hot Spots in Plasmonic Photocatalysis: Manipulating Interparticle Spacing for Real-Time Control of Electron Injection. ChemCatChem, 2018, 10, 1561-1565. | 3.7 | 20 |
| 26 | Mid-infrared Plasmonic Circular Dichroism Generated by Graphene Nanodisk Assemblies. Nano Letters, 2017, 17, 5099-5105. | 9.1 | 18 |
| 27 | Infrared plasmonics: STEM-EELS characterization of Fabry-Pérot resonance damping in gold nanowires. Physical Review B, 2020, 101, . | 3.2 | 18 |
| 28 | Fabrication of Anisotropic Silver Nanoplatelets on the Surface of TiO ₂ Fibers for Enhanced Photocatalysis of a Chemical Warfare Agent Simulant, Methyl Paraoxon. Journal of Physical Chemistry C, 2019, 123, 19579-19587. | 3.1 | 16 |
| 29 | Near-Infrared Plasmonic Copper Nanocups Fabricated by Template-Assisted Magnetron Sputtering. ACS Photonics, 2017, 4, 2881-2890. | 6.6 | 14 |
| 30 | Optical properties of metal-multi-insulator-metal plasmonic waveguides. Optics Express, 2012, 20, 12133. | 3.4 | 13 |
| 31 | Strong Quantum Confinement Effects and Chiral Excitons in Bio-Inspired ZnO-Amino Acid Cocrystals. Journal of Physical Chemistry C, 2018, 122, 6348-6356. | 3.1 | 13 |
| 32 | Sign of differential reflection and transmission in pump-probe spectroscopy of graphene on dielectric substrate. Photonics Research, 2015, 3, A1. | 7.0 | 12 |
| 33 | Substrate Phonon-Mediated Plasmon Hybridization in Coplanar Graphene Nanostructures for Broadband Plasmonic Circuits. Small, 2015, 11, 591-596. | 10.0 | 11 |
| 34 | Optical properties of graphene plasmons and their potential applications. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 106801. | 0.5 | 11 |
| 35 | Plasmonic extinction of gated graphene nanoribbon array analyzed by a scaled uniform Fermi level. Optics Letters, 2014, 39, 1345. | 3.3 | 9 |
| 36 | Polarization dependence and independence of near-field enhancement through a subwavelength circle hole. Optics Express, 2010, 18, 5854. | 3.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Polarization dependence of graphene transient optical response: interplay between incident direction and anisotropic distribution of nonequilibrium carriers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 218. | 2.1 | 6 |
| 38 | Making transient optical reflection of graphene polarization dependent. <i>Optics Express</i> , 2015, 23, 24177. | 3.4 | 5 |
| 39 | Quantum Dots: Near-Infrared, Heavy Metal-Free Colloidal "Giant" Core/Shell Quantum Dots (Adv. Tj ETQq1_1_0.784314 rgBT | 19.5 | 5 |
| 40 | Large graphene-induced shift of surface-plasmon resonances of gold films: Effective-medium theory for atomically thin materials. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 4 |
| 41 | Enhanced transmission through a subwavelength slit surrounded by periodic dielectric bars above the metal surface. <i>Journal of Optics</i> , 2008, 10, 095202. | 1.5 | 2 |
| 42 | Fabrication and Optical Properties of Inclined Au Nanocup Arrays. <i>Plasmonics</i> , 2013, 8, 1607-1611. | 3.4 | 2 |
| 43 | Broadband chiral hybrid plasmon modes on nanofingernail substrates. <i>Nanoscale</i> , 2020, 12, 3827-3833. | 5.6 | 2 |
| 44 | Abnormal Spatial Shifts in Graphene Measured via the Beam Displacement Amplification Technique: Implications for Sensors Based on the Goos-Hänchen Effect. <i>ACS Applied Nano Materials</i> , 2021, 4, 13477-13485. | 5.0 | 2 |
| 45 | Nanostructure Fabricated by Nanosphere Lithography Assisted with O_2 Plasma Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4311-4315. | 0.9 | 1 |