# Jiangfeng Zhou

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5725852/publications.pdf

Version: 2024-02-01

| | | 136885 | 168321 |
|---|---|---|---|
| 59 | 8,466 | 32 | 53 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 59 | 59 | 59 | 5186 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetic Response of Metamaterials at 100 Terahertz. Science, 2004, 306, 1351-1353. | 6.0 | 1,432 |
| 2 | Magnetic Metamaterials at Telecommunication and Visible Frequencies. Physical Review Letters, 2005, 95, 203901. | 2.9 | 707 |
| 3 | Metamaterial with negative index due to chirality. Physical Review B, 2009, 79, . | 1.1 | 683 |
| 4 | Saturation of the Magnetic Response of Split-Ring Resonators at Optical Frequencies. Physical Review Letters, 2005, 95, 223902. | 2.9 | 559 |
| 5 | Cut-wire pairs and plate pairs as magnetic atoms for optical metamaterials. Optics Letters, 2005, 30, 3198. | 1.7 | 482 |
| 6 | Photoinduced handedness switching in terahertz chiral metamolecules. Nature Communications, 2012, 3, 942. | 5.8 | 407 |
| 7 | Unifying approach to left-handed material design. Optics Letters, 2006, 31, 3620. | 1.7 | 376 |
| 8 | Negative index materials using simple short wire pairs. Physical Review B, 2006, 73, . | 1.1 | 372 |
| 9 | Negative refractive index due to chirality. Physical Review B, 2009, 79, . | 1.1 | 359 |
| 10 | Antireflection Coating Using Metamaterials and Identification of Its Mechanism. Physical Review Letters, 2010, 105, 073901. | 2.9 | 318 |
| 11 | Chiral metamaterials: simulations and experiments. Journal of Optics, 2009, 11, 114003. | 1.5 | 273 |
| 12 | Terahertz chiral metamaterials with giant and dynamically tunable optical activity. Physical Review B, 2012, 86, . | 1.1 | 221 |
| 13 | Conjugated gammadion chiral metamaterial with uniaxial optical activity and negative refractive index. Physical Review B, 2011, 83, . | 1.1 | 201 |
| 14 | Repulsive Casimir Force in Chiral Metamaterials. Physical Review Letters, 2009, 103, 103602. | 2.9 | 196 |
| 15 | Photonic Metamaterials: Magnetism at Optical Frequencies. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1097-1105. | 1.9 | 180 |
| 16 | Experimental demonstration of negative index of refraction. Applied Physics Letters, 2006, 88, 221103. | 1.5 | 167 |
| 17 | Focused-Ion-Beam Nanofabrication of Near-Infrared Magnetic Metamaterials. Advanced Materials, 2005, 17, 2547-2549. | 11.1 | 134 |
| 18 | Nonplanar chiral metamaterials with negative index. Applied Physics Letters, 2009, 94, . | 1.5 | 134 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetic and electric excitations in split ring resonators. Optics Express, 2007, 15, 17881. | 1.7 | 121 |
| 20 | Nonlinear properties of split-ring resonators. Optics Express, 2008, 16, 16058. | 1.7 | 115 |
| 21 | An efficient way to reduce losses of left-handed metamaterials. Optics Express, 2008, 16, 11147. | 1.7 | 99 |
| 22 | Bi-layer cross chiral structure with strong optical activity and negative refractive index. Optics Express, 2009, 17, 14172. | 1.7 | 92 |
| 23 | Negative refractive index response of weakly and strongly coupled optical metamaterials. Physical Review B, 2009, 80, . | 1.1 | 89 |
| 24 | A Largeâ€Area, Mushroomâ€Capped Plasmonic Perfect Absorber: Refractive Index Sensing and Fabryâ€“Perot Cavity Mechanism. Advanced Optical Materials, 2015, 3, 1779-1786. | 3.6 | 79 |
| 25 | Tailored resonator coupling for modifying the terahertz metamaterial response. Optics Express, 2011, 19, 10679. | 1.7 | 61 |
| 26 | Metamaterial Perfect Absorber Analyzed by a Meta-cavity Model Consisting of Multilayer Metasurfaces. Scientific Reports, 2017, 7, 10569. | 1.6 | 59 |
| 27 | The science of negative index materials. Journal of Physics Condensed Matter, 2008, 20, 304217. | 0.7 | 58 |
| 28 | Coupling effect between two adjacent chiral structure layers. Optics Express, 2010, 18, 5375. | 1.7 | 53 |
| 29 | Size dependence and convergence of the retrieval parameters of metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 96-101. | 1.0 | 44 |
| 30 | A Oneâ€Way Mirror: Highâ€Performance Terahertz Optical Isolator Based on Magnetoplasmonics. Advanced Optical Materials, 2018, 6, 1800572. | 3.6 | 44 |
| 31 | Resonance tuning behavior in closely spaced inhomogeneous bilayer metamaterials. Applied Physics Letters, 2011, 98, . | 1.5 | 38 |
| 32 | Magnetic response of split ring resonators at terahertz frequencies. Physica Status Solidi (B): Basic Research, 2007, 244, 1181-1187. | 0.7 | 35 |
| 33 | Microstructure effects for Casimir forces in chiral metamaterials. Physical Review B, 2010, 82, . | 1.1 | 29 |
| 34 | Reversible modulation and ultrafast dynamics of terahertz resonances in strongly photoexcited metamaterials. Physical Review B, 2012, 86, . | 1.1 | 26 |
| 35 | A Low-loss Metasurface Antireflection Coating on Dispersive Surface Plasmon Structure. Scientific Reports, 2016, 6, 36190. | 1.6 | 25 |
| 36 | Thin InSb layers with metallic gratings: a novel platform for spectrally-selective THz plasmonic sensing. Optics Express, 2016, 24, 19448. | 1.7 | 23 |

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|---|---|---|---|
| 37 | nAnalysis of subwavelength metal hole array structure for the enhancement of back-illuminated quantum dot infrared photodetectors. Optics Express, 2013, 21, 4709. | 1.7 | 20 |
| 38 | Enhanced transmission due to antireflection coating layer at surface plasmon resonance wavelengths. Optics Express, 2014, 22, 30161. | 1.7 | 19 |
| 39 | Fabry-Perot cavity resonance enabling highly polarization-sensitive double-layer gold grating. Scientific Reports, 2018, 8, 14787. | 1.6 | 19 |
| 40 | Nonreciprocal Fabry-Perot effect and performance enhancement in a magneto-optical InSb-based Faraday terahertz isolator. Optics Express, 2020, 28, 38280. | 1.7 | 15 |
| 41 | Dirac dynamics in one-dimensional graphene-like plasmonic crystals: pseudo-spin, chirality, and diffraction anomaly. Optics Express, 2010, 18, 25329. | 1.7 | 14 |
| 42 | Broadband and high-efficiency transmissive-type nondispersive polarization conversion meta-device. Optical Materials Express, 2018, 8, 2430. | 1.6 | 12 |
| 43 | Broadband angle- and permittivity-insensitive nondispersive optical activity based on planar chiral metamaterials. Scientific Reports, 2017, 7, 10730. | 1.6 | 11 |
| 44 | Planar composite chiral metamaterial with broadband dispersionless polarization rotation and high transmission. Journal of Applied Physics, 2016, 120, . | 1.1 | 9 |
| 45 | High efficiency ambient RF energy harvesting by a metamaterial perfect absorber. Optical Materials Express, 2022, 12, 1242. | 1.6 | 9 |
| 46 | Electromagnetic behaviour of left-handed materials. Physica B: Condensed Matter, 2007, 394, 148-154. | 1.3 | 8 |
| 47 | Angle-Dependent Spoof Surface Plasmons in Metallic Hole Arrays at Terahertz Frequencies. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-6. | 1.9 | 8 |
| 48 | Giant THz surface plasmon polariton induced by high-index dielectric metasurface. Scientific Reports, 2017, 7, 9876. | 1.6 | 8 |
| 49 | ZhaoetÂal.Reply:. Physical Review Letters, 2010, 105, . | 2.9 | 6 |
| 50 | Strong Responsivity Enhancement of Quantum Dotâ€inâ€aâ€Well Infrared Photodetectors Using Plasmonic Structures. Advanced Theory and Simulations, 2019, 2, 1800143. | 1.3 | 5 |
| 51 | Large-scale synthesis of single-phase, high-quality GaN nanocrystallites. Applied Physics A: Materials Science and Processing, 2004, 78, 753-755. | 1.1 | 4 |
| 52 | High-Efficiency and Wide-Angle Versatile Polarization Controller Based on Metagratings. Materials, 2019, 12, 623. | 1.3 | 3 |
| 53 | A THz plasmonics perfect absorber and Fabry-Perot cavity mechanism (Conference Presentation). , 2016, , . | | 2 |
| 54 | Robust metamaterial-based antireflection coating for surface plasmon polariton resonance. Optical Materials Express, 2019, 9, 1290. | 1.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Chiral THz Metamaterial with Tunable Optical Activity. , 2010, , . | | 1 |
| 56 | A THz plasmonic perfect absorber and Fabry-Perot cavity mechanism. , 2016, , . | | 0 |
| 57 | A multilayer effective medium model for plasmonic perfect absorber. , 2016, , . | | 0 |
| 58 | Negative Index Materials in GHz and THz Frequencies. , 2006, , . | | 0 |
| 59 | Magneto-optical nonreciprocity without chirality: Archimedean spirals on InSb. Optics Express, 2022, 30, 17193. | 1.7 | 0 |