

Andreas Tittl

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,851
citations

212478

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355658

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all docs

50
docs citations

50
times ranked

5546
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Metasurface-Enhanced Infrared Spectroscopy: An Abundance of Materials and Functionalities. <i>Advanced Materials</i> , 2023, 35, . | 11.1 | 25 |
| 2 | Trends in Nanophotonics-Enabled Optofluidic Biosensors. <i>Advanced Optical Materials</i> , 2022, 10, . | 3.6 | 28 |
| 3 | Tunable structural colors on display. <i>Light: Science and Applications</i> , 2022, 11, . | 7.7 | 9 |
| 4 | Optical Metasurfaces for Energy Conversion. <i>Chemical Reviews</i> , 2022, 122, 15082-15176. | 23.0 | 52 |
| 5 | Anapole-Assisted Absorption Engineering in Arrays of Coupled Amorphous Gallium Phosphide Nanodisks. <i>ACS Photonics</i> , 2021, 8, 1469-1476. | 3.2 | 29 |
| 6 | Dual Nanoresonators for Ultrasensitive Chiral Detection. <i>ACS Photonics</i> , 2021, 8, 1754-1762. | 3.2 | 30 |
| 7 | Programmable Huygens-™ metasurfaces for active optical phase control. , 2021, , . | | 1 |
| 8 | Fabrication tolerance impact on BIC metasurface resonances. , 2021, , . | | 0 |
| 9 | Tailoring the Response of Gold Nanoantennas in Optical Near-Field Measurements: Orientation and Field Size. , 2021, , . | | 0 |
| 10 | Bound states in the continuum in symmetry broken resonator rings. , 2021, , . | | 0 |
| 11 | All-Dielectric Crescent Metasurface Sensor Driven by Bound States in the Continuum. <i>Advanced Functional Materials</i> , 2021, 31, 2104652. | 7.8 | 115 |
| 12 | Fabrication robustness in BIC metasurfaces. <i>Nanophotonics</i> , 2021, 10, 4305-4312. | 2.9 | 57 |
| 13 | Radial bound states in the continuum. , 2021, , . | | 0 |
| 14 | Tip Coupling and Array Effects of Gold Nanoantennas in Near-Field Microscopy. <i>ACS Photonics</i> , 2021, 8, 3486-3494. | 3.2 | 7 |
| 15 | Huygens' Metasurfaces: All-Dielectric Programmable Huygens' Metasurfaces (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBTj /Overlock | 7.8 | 3 |
| 16 | All-Dielectric Programmable Huygens' Metasurfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1910259. | 7.8 | 149 |
| 17 | Duality Symmetry in Hybrid Nanoresonators for Chiral Sensing. , 2020, , . | | 0 |
| 18 | Accessible Superchiral Near-Fields Driven by Tailored Electric and Magnetic Resonances in All-Dielectric Nanostructures. <i>ACS Photonics</i> , 2019, 6, 1939-1946. | 3.2 | 82 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Angle-multiplexed all-dielectric metasurfaces for broadband molecular fingerprint retrieval. <i>Science Advances</i> , 2019, 5, eaaw2871. | 4.7 | 294 |
| 20 | Metasurface-Based Molecular Biosensing Aided by Artificial Intelligence. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14810-14822. | 7.2 | 89 |
| 21 | Metaoberflächenbasierte molekulare Biosensorik unterstützt von künstlicher Intelligenz. <i>Angewandte Chemie</i> , 2019, 131, 14952-14965. | 1.6 | 4 |
| 22 | Ultrasensitive hyperspectral imaging and biodetection enabled by dielectric metasurfaces. <i>Nature Photonics</i> , 2019, 13, 390-396. | 15.6 | 546 |
| 23 | All-Dielectric High-Q Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , . | | 0 |
| 24 | Enhanced Circular Dichroism and Chiral Sensing with Bound States in the Continuum. , 2019, , . | | 4 |
| 25 | All-dielectric Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , . | | 1 |
| 26 | Self-Similar Multiresonant Nanoantenna Arrays for Sensing from Near- to Mid-Infrared. <i>ACS Photonics</i> , 2018, 5, 4903-4911. | 3.2 | 59 |
| 27 | Quantifying the Limits of Detection of Surface-Enhanced Infrared Spectroscopy with Grating Order-Coupled Nanogap Antennas. <i>ACS Photonics</i> , 2018, 5, 4117-4124. | 3.2 | 46 |
| 28 | Resolving molecule-specific information in dynamic lipid membrane processes with multi-resonant infrared metasurfaces. <i>Nature Communications</i> , 2018, 9, 2160. | 5.8 | 176 |
| 29 | Imaging-based molecular barcoding with pixelated dielectric metasurfaces. <i>Science</i> , 2018, 360, 1105-1109. | 6.0 | 726 |
| 30 | Mid-IR Nanophotonics for Surface Enhanced Spectroscopy. , 2018, , . | | 0 |
| 31 | Double-layer graphene for enhanced tunable infrared plasmonics. <i>Light: Science and Applications</i> , 2017, 6, e16277-e16277. | 7.7 | 143 |
| 32 | Large-Area Low-Cost Plasmonic Perfect Absorber Chemical Sensor Fabricated by Laser Interference Lithography. <i>ACS Sensors</i> , 2016, 1, 1148-1154. | 4.0 | 64 |
| 33 | Large-area fabrication of TiN nanoantenna arrays for refractory plasmonics in the mid-infrared by femtosecond direct laser writing and interference lithography [Invited]. <i>Optical Materials Express</i> , 2015, 5, 2625. | 1.6 | 60 |
| 34 | A Switchable Mid-Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability. <i>Advanced Materials</i> , 2015, 27, 4597-4603. | 11.1 | 487 |
| 35 | Sensitivity engineering in direct contact palladium-gold nano-sandwich hydrogen sensors [Invited]. <i>Optical Materials Express</i> , 2015, 5, 2525. | 1.6 | 31 |
| 36 | Active Chiral Plasmonics. <i>Nano Letters</i> , 2015, 15, 4255-4260. | 4.5 | 271 |

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|----|---|------|-----------|
| 37 | Large-Area Low-Cost Tunable Plasmonic Perfect Absorber in the Near Infrared by Colloidal Etching Lithography. <i>Advanced Optical Materials</i> , 2015, 3, 398-403. | 3.6 | 77 |
| 38 | Plasmonic Absorbers: A Switchable Mid-Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability (<i>Adv. Mater.</i> 31/2015). <i>Advanced Materials</i> , 2015, 27, 4526-4526. | 11.1 | 7 |
| 39 | Magnesium as Novel Material for Active Plasmonics in the Visible Wavelength Range. <i>Nano Letters</i> , 2015, 15, 7949-7955. | 4.5 | 162 |
| 40 | Plasmonic Gas and Chemical Sensing. NATO Science for Peace and Security Series C: Environmental Security, 2015, , 239-272. | 0.1 | 2 |
| 41 | DNA-assembled bimetallic plasmonic nanosensors. <i>Light: Science and Applications</i> , 2014, 3, e226-e226. | 7.7 | 80 |
| 42 | Yttrium Hydride Nanoantennas for Active Plasmonics. <i>Nano Letters</i> , 2014, 14, 1140-1147. | 4.5 | 86 |
| 43 | Quantitative Angle-Resolved Small-Spot Reflectance Measurements on Plasmonic Perfect Absorbers: Impedance Matching and Disorder Effects. <i>ACS Nano</i> , 2014, 8, 10885-10892. | 7.3 | 103 |
| 44 | Plasmonic gas and chemical sensing. <i>Nanophotonics</i> , 2014, 3, 157-180. | 2.9 | 98 |
| 45 | Yttrium hydride nanoantennas for active plasmonics. , 2014, , . | | 53 |
| 46 | Plasmonic Smart Dust for Probing Local Chemical Reactions. <i>Nano Letters</i> , 2013, 13, 1816-1821. | 4.5 | 104 |
| 47 | Long-term stability of capped and buffered palladium-nickel thin films and nanostructures for plasmonic hydrogen sensing applications. <i>Optical Materials Express</i> , 2013, 3, 194. | 1.6 | 43 |
| 48 | Spectral shifts in optical nanoantenna-enhanced hydrogen sensors. <i>Optical Materials Express</i> , 2012, 2, 111. | 1.6 | 61 |
| 49 | Palladium-Based Plasmonic Perfect Absorber in the Visible Wavelength Range and Its Application to Hydrogen Sensing. <i>Nano Letters</i> , 2011, 11, 4366-4369. | 4.5 | 385 |
| 50 | Optical hydrogen sensing with metallic photonic crystals and plasmonic metamaterials. , 2010, , . | | 2 |