

Andreas Tittl

List of Publications by Year in descending order

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50
papers

4,851
citations

186265
28
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315739
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50
all docs

50
docs citations

50
times ranked

4731
citing authors

#	ARTICLE	IF	CITATIONS
1	Metasurface-Enhanced Infrared Spectroscopy: An Abundance of Materials and Functionalities. Advanced Materials, 2023, 35, .	21.0	25
2	Trends in Nanophotonics-Enabled Optofluidic Biosensors. Advanced Optical Materials, 2022, 10, .	7.3	28
3	Tunable structural colors on display. Light: Science and Applications, 2022, 11, .	16.6	9
4	Optical Metasurfaces for Energy Conversion. Chemical Reviews, 2022, 122, 15082-15176.	47.7	52
5	Anapole-Assisted Absorption Engineering in Arrays of Coupled Amorphous Gallium Phosphide Nanodisks. ACS Photonics, 2021, 8, 1469-1476.	6.6	29
6	Dual Nanoresonators for Ultrasensitive Chiral Detection. ACS Photonics, 2021, 8, 1754-1762.	6.6	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. Advanced Functional Materials, 2021, 31, 2104652.	14.9	115
12	Fabrication robustness in BIC metasurfaces. Nanophotonics, 2021, 10, 4305-4312.	6.0	57
13	Radial bound states in the continuum. , 2021, , .		0
14	Tip Coupling and Array Effects of Gold Nanoantennas in Near-Field Microscopy. ACS Photonics, 2021, 8, 3486-3494.	6.6	7
15	Huygens' Metasurfaces: All-Dielectric Programmable Huygens' Metasurfaces (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBTj /Overlock	14.9	149
16	All-Dielectric Programmable Huygens' Metasurfaces. Advanced Functional Materials, 2020, 30, 1910259.	14.9	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. ACS Photonics, 2019, 6, 1939-1946.	6.6	82

#	ARTICLE	IF	CITATIONS
19	Angle-multiplexed all-dielectric metasurfaces for broadband molecular fingerprint retrieval. Science Advances, 2019, 5, eaaw2871.	10.3	294
20	Metasurface-Based Molecular Biosensing Aided by Artificial Intelligence. Angewandte Chemie - International Edition, 2019, 58, 14810-14822.	13.8	89
21	Metaoberflächenbasierte molekulare Biosensorik unterstützt von künstlicher Intelligenz. Angewandte Chemie, 2019, 131, 14952-14965.	2.0	4
22	Ultrasensitive hyperspectral imaging and biodetection enabled by dielectric metasurfaces. Nature Photonics, 2019, 13, 390-396.	31.4	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. ACS Photonics, 2018, 5, 4903-4911.	6.6	59
27	Quantifying the Limits of Detection of Surface-Enhanced Infrared Spectroscopy with Grating Order-Coupled Nanogap Antennas. ACS Photonics, 2018, 5, 4117-4124.	6.6	46
28	Resolving molecule-specific information in dynamic lipid membrane processes with multi-resonant infrared metasurfaces. Nature Communications, 2018, 9, 2160.	12.8	176
29	Imaging-based molecular barcoding with pixelated dielectric metasurfaces. Science, 2018, 360, 1105-1109.	12.6	726
30	Mid-IR Nanophotonics for Surface Enhanced Spectroscopy. , 2018, , .		0
31	Double-layer graphene for enhanced tunable infrared plasmonics. Light: Science and Applications, 2017, 6, e16277-e16277.	16.6	143
32	Large-Area Low-Cost Plasmonic Perfect Absorber Chemical Sensor Fabricated by Laser Interference Lithography. ACS Sensors, 2016, 1, 1148-1154.	7.8	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]. Optical Materials Express, 2015, 5, 2625.	3.0	60
34	A Switchable Mid-Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability. Advanced Materials, 2015, 27, 4597-4603.	21.0	487
35	Sensitivity engineering in direct contact palladium-gold nano-sandwich hydrogen sensors [Invited]. Optical Materials Express, 2015, 5, 2525.	3.0	31
36	Active Chiral Plasmonics. Nano Letters, 2015, 15, 4255-4260.	9.1	271

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37	Largeâ€Area Lowâ€Cost Tunable Plasmonic Perfect Absorber in the Near Infrared by Colloidal Etching Lithography. Advanced Optical Materials, 2015, 3, 398-403.	7.3	77
38	Plasmonic Absorbers: A Switchable Midâ€Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability (Adv. Mater. 31/2015). Advanced Materials, 2015, 27, 4526-4526.	21.0	7
39	Magnesium as Novel Material for Active Plasmonics in the Visible Wavelength Range. Nano Letters, 2015, 15, 7949-7955.	9.1	162
40	Plasmonic Gas and Chemical Sensing. NATO Science for Peace and Security Series C: Environmental Security, 2015, , 239-272.	0.2	2
41	DNA-assembled bimetallic plasmonic nanosensors. Light: Science and Applications, 2014, 3, e226-e226.	16.6	80
42	Yttrium Hydride Nanoantennas for Active Plasmonics. Nano Letters, 2014, 14, 1140-1147.	9.1	86
43	Quantitative Angle-Resolved Small-Spot Reflectance Measurements on Plasmonic Perfect Absorbers: Impedance Matching and Disorder Effects. ACS Nano, 2014, 8, 10885-10892.	14.6	103
44	Plasmonic gas and chemical sensing. Nanophotonics, 2014, 3, 157-180.	6.0	98
45	Yttrium hydride nanoantennas for active plasmonics. , 2014, , .		53
46	Plasmonic Smart Dust for Probing Local Chemical Reactions. Nano Letters, 2013, 13, 1816-1821.	9.1	104
47	Long-term stability of capped and buffered palladium-nickel thin films and nanostructures for plasmonic hydrogen sensing applications. Optical Materials Express, 2013, 3, 194.	3.0	43
48	Spectral shifts in optical nanoantenna-enhanced hydrogen sensors. Optical Materials Express, 2012, 2, 111.	3.0	61
49	Palladium-Based Plasmonic Perfect Absorber in the Visible Wavelength Range and Its Application to Hydrogen Sensing. Nano Letters, 2011, 11, 4366-4369.	9.1	385
50	Optical hydrogen sensing with metallic photonic crystals and plasmonic metamaterials. , 2010, , .		2