

Ralf Vogelgesang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2886489/publications.pdf>

Version: 2024-02-01

78
papers

4,348
citations

126708

33
h-index

102304

66
g-index

79
all docs

79
docs citations

79
times ranked

5398
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition from Isolated to Collective Modes in Plasmonic Oligomers. <i>Nano Letters</i> , 2010, 10, 2721-2726.	4.5	544
2	3D optical Yagi-Uda nanoantenna array. <i>Nature Communications</i> , 2011, 2, 267.	5.8	292
3	Fabry-Pérot Resonances in One-Dimensional Plasmonic Nanostructures. <i>Nano Letters</i> , 2009, 9, 2372-2377.	4.5	276
4	Plasmonic Oligomers: The Role of Individual Particles in Collective Behavior. <i>ACS Nano</i> , 2011, 5, 2042-2050.	7.3	255
5	Direct Near-Field Optical Imaging of Higher Order Plasmonic Resonances. <i>Nano Letters</i> , 2008, 8, 3155-3159.	4.5	201
6	Plasmonic Nanowire Antennas: Experiment, Simulation, and Theory. <i>Nano Letters</i> , 2010, 10, 3596-3603.	4.5	194
7	Toward Plasmonics with Nanometer Precision: Nonlinear Optics of Helium-Ion Milled Gold Nanoantennas. <i>Nano Letters</i> , 2014, 14, 4778-4784.	4.5	174
8	Toroidal Plasmonic Eigenmodes in Oligomer Nanocavities for the Visible. <i>Nano Letters</i> , 2012, 12, 5239-5244.	4.5	141
9	Brillouin and Raman scattering in natural and isotopically controlled diamond. <i>Physical Review B</i> , 1996, 54, 3989-3999.	1.1	131
10	Tetradymites as Natural Hyperbolic Materials for the Near-Infrared to Visible. <i>ACS Photonics</i> , 2014, 1, 1285-1289.	3.2	119
11	Near-Field Dynamics of Optical Yagi-Uda Nanoantennas. <i>Nano Letters</i> , 2011, 11, 2819-2824.	4.5	105
12	Vibrational near-field mapping of planar and buried three-dimensional plasmonic nanostructures. <i>Nature Communications</i> , 2013, 4, 2237.	5.8	103
13	Apertureless scanning near field optical microscope with sub-10nm resolution. <i>Review of Scientific Instruments</i> , 2006, 77, 043703.	0.6	99
14	Interplay between Strong Coupling and Radiative Damping of Excitons and Surface Plasmon Polaritons in Hybrid Nanostructures. <i>ACS Nano</i> , 2014, 8, 1056-1064.	7.3	97
15	Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. <i>ACS Nano</i> , 2009, 3, 2901-2910.	7.3	92
16	Quantum Coherence of Image-Potential States. <i>Physical Review Letters</i> , 2003, 91, 106802.	2.9	89
17	The elastic constants of single crystal β -Si ₃ N ₄ . <i>Applied Physics Letters</i> , 2000, 76, 982-984.	1.5	84
18	Local detection of spin-orbit splitting by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2007, 75, .	1.1	81

#	ARTICLE	IF	CITATIONS
19	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. <i>Physical Review B</i> , 2011, 83, .	1.1	81
20	Amplitude- and phase-resolved optical near fields of split-ring-resonator-based metamaterials. <i>Optics Letters</i> , 2008, 33, 848.	1.7	78
21	Real-space imaging of nanoplasmonic resonances. <i>Analyst, The</i> , 2010, 135, 1175.	1.7	66
22	Gap-Plasmon-Enhanced Nanofocusing Near-Field Microscopy. <i>ACS Photonics</i> , 2016, 3, 223-232.	3.2	63
23	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching <i>versus</i> Eigenmode Resonances. <i>ACS Nano</i> , 2015, 9, 7641-7648.	7.3	61
24	Hybridized Metal Slit Eigenmodes as an Illustration of Babinet's Principle. <i>ACS Nano</i> , 2011, 5, 6701-6706.	7.3	54
25	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. <i>Analyst, The</i> , 2014, 139, 1856.	1.7	45
26	Multiphonon Raman and infrared spectra of isotopically controlled diamond. <i>Physical Review B</i> , 1998, 58, 5408-5416.	1.1	44
27	Electronic Band Structure Mapping of Nanotube Transistors by Scanning Photocurrent Microscopy. <i>Small</i> , 2007, 3, 2038-2042.	5.2	40
28	Electronic Raman and infrared spectra of acceptors in isotopically controlled diamonds. <i>Physical Review B</i> , 1998, 57, 15315-15327.	1.1	37
29	Long-Distance Indirect Excitation of Nanoplasmonic Resonances. <i>Nano Letters</i> , 2011, 11, 2765-2769.	4.5	36
30	Reciprocity Theory of Apertureless Scanning Near-Field Optical Microscopy with Point-Dipole Probes. <i>ACS Nano</i> , 2012, 6, 8173-8182.	7.3	36
31	Full simulations of the apertureless scanning near field optical microscopy signal: achievable resolution and contrast. <i>Optics Express</i> , 2009, 17, 2518.	1.7	35
32	Glimpsing the Weak Magnetic Field of Light. <i>Science</i> , 2009, 326, 529-530.	6.0	34
33	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 053013.	1.2	34
34	Versatile optical access to the tunnel gap in a low-temperature scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2010, 81, 113102.	0.6	33
35	k-space imaging of the eigenmodes of sharp gold tapers for scanning near-field optical microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 603-610.	1.5	30
36	Vectorial near-field coupling. <i>Nature Nanotechnology</i> , 2019, 14, 698-704.	15.6	29

#	ARTICLE	IF	CITATIONS
37	Photoluminescence of short-period GaAs/AlAs superlattices: A hydrostatic pressure and temperature study. <i>Physical Review B</i> , 1998, 58, 7222-7229.	1.1	28
38	Relating localized nanoparticle resonances to an associated antenna problem. <i>Physical Review B</i> , 2011, 84, .	1.1	28
39	Breaking the Mode Degeneracy of Surface Plasmon Resonances in a Triangular System. <i>Langmuir</i> , 2012, 28, 8867-8873.	1.6	28
40	Reflection and Phase Matching in Plasmonic Gold Tapers. <i>Nano Letters</i> , 2016, 16, 6137-6144.	4.5	28
41	Electronic Raman and Infrared Spectra of Isotopically Controlled "Blue" Diamonds. <i>Physical Review Letters</i> , 1997, 79, 1706-1709.	2.9	27
42	Surface plasmon coupling to nanoscale Schottky-type electrical detectors. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	23
43	Plasmonic nanostructures in apertureless scanning near-field optical microscopy (aSNOM). <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2255-2260.	0.7	20
44	Plasmonic Activity of Large-Area Gold Nanodot Arrays on Arbitrary Substrates. <i>Nano Letters</i> , 2010, 10, 47-51.	4.5	20
45	On the symmetry and topology of plasmonic eigenmodes in heptamer and hexamer nanocavities. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 947-954.	1.1	20
46	Indirect transitions, free and impurity-bound excitons in gallium phosphide: A revisit with modulation and photoluminescence spectroscopy. <i>Journal of Applied Physics</i> , 1997, 82, 4331-4337.	1.1	18
47	Plasmonic grating as a nonlinear converter-coupler. <i>Optics Express</i> , 2012, 20, 1392.	1.7	17
48	Quantitative and Direct Near-Field Analysis of Plasmonic-Induced Transparency and the Observation of a Plasmonic Breathing Mode. <i>ACS Nano</i> , 2016, 10, 2214-2224.	7.3	16
49	Optical nonlinearity versus mechanical anharmonicity contrast in dynamic mode apertureless scanning near-field optical microscopy. <i>Applied Physics Letters</i> , 2005, 87, 1631-15.	1.5	15
50	Plasmonic antennas, positioning, and coupling of individual quantum systems. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 666-677.	0.7	15
51	Bottom-Up Tailoring of Plasmonic Nanopeapods Making Use of the Periodical Topography of Carbon Nanocoil Templates. <i>Advanced Functional Materials</i> , 2012, 22, 5157-5165.	7.8	13
52	Observation of Lorentzian lineshapes in the room temperature optical spectra of strongly coupled Jaggregate/metal hybrid nanostructures by linear two-dimensional optical spectroscopy. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 114021.	1.0	13
53	MnSe: Rocksalt versus zinc-blende structure. <i>Physical Review B</i> , 1998, 58, 6700-6703.	1.1	12
54	Lattice parameters and optical characterization of Cd _{1-x} Mg _x Se alloys grown by vertical gradient freezing technique. <i>Journal of Crystal Growth</i> , 1999, 203, 51-60.	0.7	12

#	ARTICLE	IF	CITATIONS
55	Suppression of Radiative Damping and Enhancement of Second Harmonic Generation in Bullâ€™s Eye Nanoresonators. ACS Nano, 2016, 10, 475-483.	7.3	11
56	Large-Area Two-Dimensional Plasmonic Meta-Glasses and Meta-Crystals: a Comparative Study. Plasmonics, 2017, 12, 1381-1390.	1.8	10
57	Apertureless near-field optical microscopy: Differences between heterodyne interferometric and non-interferometric images. Ultramicroscopy, 2011, 111, 1469-1474.	0.8	9
58	Field-level characterization of the optical response in J-aggregate/metal hybrid nanostructures by chirp-compensated spectral interferometry. Applied Physics Letters, 2017, 110, .	1.5	9
59	Wavelength-dependent optical degradation of green llâ€™VI laser diodes. Applied Physics Letters, 1999, 75, 1351-1353.	1.5	7
60	Polarized ultraviolet Raman spectroscopy of Î²-Si3N4. Journal of Applied Physics, 2002, 92, 3103-3106.	1.1	7
61	The phonon density of states in amorphous materials. Journal of Physics Condensed Matter, 2003, 15, S2335-S2341.	0.7	7
62	Beyond lock-in analysis for volumetric imaging in apertureless scanning near-field optical microscopy. Journal of Microscopy, 2008, 229, 365-370.	0.8	6
63	Phase Engineering of Subwavelength Unidirectional Plasmon Launchers. Advanced Optical Materials, 2013, 1, 434-437.	3.6	5
64	Global Surface Parameterization by Smooth Facet Selection. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1631-1638.	0.4	3
65	Real-space Imaging of Plasmonic Modes of Gold Tapers by EFTEM and EELS. Microscopy and Microanalysis, 2015, 21, 2221-2222.	0.2	3
66	Infrared and Raman Spectroscopy of Acceptor-Bound Holes: Boron Acceptors in Isotopically Controlled ?Blue? Diamonds. Physica Status Solidi (B): Basic Research, 1998, 210, 451-458.	0.7	1
67	Zeeman Effect of Lyman Transitions: Electronic Raman Spectrum of Boron Acceptors in Diamond. Physica Status Solidi (B): Basic Research, 1999, 215, 109-114.	0.7	1
68	Local measurement of hot-electron phase-coherence at metal surfaces. Applied Physics A: Materials Science and Processing, 2007, 88, 443-447.	1.1	1
69	Towards electrical detection of plasmons in allâ€™silicon pinâ€™diodes. Physica Status Solidi (B): Basic Research, 2012, 249, 773-777.	0.7	1
70	A linear sensor array with self-bending sensitivity. , 2016, , .		1
71	Linear Plasmonic Nano-Antennas: Experiment, Simulation, and Theory. , 2010, , .		0
72	Waveguides: Bottom-Up Tailoring of Plasmonic Nanopeapods Making Use of the Periodical Topography of Carbon Nanocoil Templates (Adv. Funct. Mater. 24/2012). Advanced Functional Materials, 2012, 22, 5284-5284.	7.8	0

#	ARTICLE	IF	CITATIONS
73	Plasmons of Hexamer and Pentamer Nanocavities Probed with Swift Electrons. <i>Microscopy and Microanalysis</i> , 2014, 20, 580-581.	0.2	0
74	Interplay Between Strong Coupling and Radiative Damping in Hybrid Excitonic-Plasmonic Nanostructures. <i>Nano-optics and Nanophotonics</i> , 2015, , 119-136.	0.2	0
75	Gap Mode Formation in Metallic, Nanofocusing SNOM Tapers for High Spatial Resolution Broadband Spectroscopy. , 2015, , .		0
76	Plasmons in Mesoscopic Gold Tapers. <i>Microscopy and Microanalysis</i> , 2016, 22, 294-295.	0.2	0
77	Interaction between Relativistic Electrons and Mesoscopic Plasmonic Tapers. <i>Microscopy and Microanalysis</i> , 2017, 23, 1534-1535.	0.2	0
78	Recent Advances in Nearfield Optical Analysis and Description of Amorphous Metamaterials. <i>Nano-optics and Nanophotonics</i> , 2013, , 169-200.	0.2	0