Ralf Vogelgesang

List of Publications by Year
in descending order

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78 papers	4,348 citations	126907 33 h-index	102487 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. Nano Letters, 2010, 10, 2721-2726.	9.1	544
2	3D optical Yagiâ€“Uda nanoantenna array. Nature Communications, 2011, 2, 267.	12.8	292
3	Fabry-PÃ©rot Resonances in One-Dimensional Plasmonic Nanostructures. Nano Letters, 2009, 9, 2372-2377.	9.1	276
4	Plasmonic Oligomers: The Role of Individual Particles in Collective Behavior. ACS Nano, 2011, 5, 2042-2050.	14.6	255
5	Direct Near-Field Optical Imaging of Higher Order Plasmonic Resonances. Nano Letters, 2008, 8, 3155-3159.	9.1	201
6	Plasmonic Nanowire Antennas: Experiment, Simulation, and Theory. Nano Letters, 2010, 10, 3596-3603.	9.1	194
7	Toward Plasmonics with Nanometer Precision: Nonlinear Optics of Helium-Ion Milled Gold Nanoantennas. Nano Letters, 2014, 14, 4778-4784.	9.1	174
8	Toroidal Plasmonic Eigenmodes in Oligomer Nanocavities for the Visible. Nano Letters, 2012, 12, 5239-5244.	9.1	141
9	Brillouin and Raman scattering in natural and isotopically controlled diamond. Physical Review B, 1996, 54, 3989-3999.	3.2	131
10	Tetradymites as Natural Hyperbolic Materials for the Near-Infrared to Visible. ACS Photonics, 2014, 1, 1285-1289.	6.6	119
11	Near-Field Dynamics of Optical Yagi-Uda Nanoantennas. Nano Letters, 2011, 11, 2819-2824.	9.1	105
12	Vibrational near-field mapping of planar and buried three-dimensional plasmonic nanostructures. Nature Communications, 2013, 4, 2237.	12.8	103
13	Apertureless scanning near field optical microscope with sub-10nm resolution. Review of Scientific Instruments, 2006, 77, 043703.	1.3	99
14	Interplay between Strong Coupling and Radiative Damping of Excitons and Surface Plasmon Polaritons in Hybrid Nanostructures. ACS Nano, 2014, 8, 1056-1064.	14.6	97
15	Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. ACS Nano, 2009, 3, 2901-2910.	14.6	92
16	Quantum Coherence of Image-Potential States. Physical Review Letters, 2003, 91, 106802.	7.8	89
17	The elastic constants of single crystal Î²-Si3N4. Applied Physics Letters, 2000, 76, 982-984.	3.3	84
18	Local detection of spin-orbit splitting by scanning tunneling spectroscopy. Physical Review B, 2007, 75, .	3.2	81

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19	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. Physical Review B, 2011, 83, .	3.2	81
20	Amplitude- and phase-resolved optical near fields of split-ring-resonator-based metamaterials. Optics Letters, 2008, 33, 848.	3.3	78
21	Real-space imaging of nanoplasmonic resonances. Analyst, The, 2010, 135, 1175.	3.5	66
22	Gap-Plasmon-Enhanced Nanofocusing Near-Field Microscopy. ACS Photonics, 2016, 3, 223-232.	6.6	63
23	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching versus Eigenmode Resonances. ACS Nano, 2015, 9, 7641-7648.	14.6	61
24	Hybridized Metal Slit Eigenmodes as an Illustration of Babinetâ€™s Principle. ACS Nano, 2011, 5, 6701-6706.	14.6	54
25	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. Analyst, The, 2014, 139, 1856.	3.5	45
26	Multiphonon Raman and infrared spectra of isotopically controlled diamond. Physical Review B, 1998, 58, 5408-5416.	3.2	44
27	Electronicâ€Bandâ€Structure Mapping of Nanotube Transistors by Scanning Photocurrent Microscopy. Small, 2007, 3, 2038-2042.	10.0	40
28	Electronic Raman and infrared spectra of acceptors in isotopically controlled diamonds. Physical Review B, 1998, 57, 15315-15327.	3.2	37
29	Long-Distance Indirect Excitation of Nanoplasmonic Resonances. Nano Letters, 2011, 11, 2765-2769.	9.1	36
30	Reciprocity Theory of Apertureless Scanning Near-Field Optical Microscopy with Point-Dipole Probes. ACS Nano, 2012, 6, 8173-8182.	14.6	36
31	Full simulations of the apertureless scanning near field optical microscopy signal: achievable resolution and contrast. Optics Express, 2009, 17, 2518.	3.4	35
32	Glimpsing the Weak Magnetic Field of Light. Science, 2009, 326, 529-530.	12.6	34
33	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. New Journal of Physics, 2013, 15, 053013.	2.9	34
34	Versatile optical access to the tunnel gap in a low-temperature scanning tunneling microscope. Review of Scientific Instruments, 2010, 81, 113102.	1.3	33
35	k-space imaging of the eigenmodes of sharp gold tapers for scanning near-field optical microscopy. Beilstein Journal of Nanotechnology, 2013, 4, 603-610.	2.8	30
36	Vectorial near-field coupling. Nature Nanotechnology, 2019, 14, 698-704.	31.5	29

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37	Photoluminescence of short-period GaAs/AlAs superlattices: A hydrostatic pressure and temperature study. Physical Review B, 1998, 58, 7222-7229.	3.2	28
38	Relating localized nanoparticle resonances to an associated antenna problem. Physical Review B, 2011, 84, .	3.2	28
39	Breaking the Mode Degeneracy of Surface Plasmon Resonances in a Triangular System. Langmuir, 2012, 28, 8867-8873.	3.5	28
40	Reflection and Phase Matching in Plasmonic Gold Tapers. Nano Letters, 2016, 16, 6137-6144.	9.1	28
41	Electronic Raman and Infrared Spectra of Isotopically Controlled â€œBlueâ€•Diamonds. Physical Review Letters, 1997, 79, 1706-1709.	7.8	27
42	Surface plasmon coupling to nanoscale Schottky-type electrical detectors. Applied Physics Letters, 2010, 97, .	3.3	23
43	Plasmonic nanostructures in apertureâ€less scanning nearâ€field optical microscopy (aSNOM). Physica Status Solidi (B): Basic Research, 2008, 245, 2255-2260.	1.5	20
44	Plasmonic Activity of Large-Area Gold Nanodot Arrays on Arbitrary Substrates. Nano Letters, 2010, 10, 47-51.	9.1	20
45	On the symmetry and topology of plasmonic eigenmodes in heptamer and hexamer nanocavities. Applied Physics A: Materials Science and Processing, 2014, 116, 947-954.	2.3	20
46	Indirect transitions, free and impurity-bound excitons in gallium phosphide: A revisit with modulation and photoluminescence spectroscopy. Journal of Applied Physics, 1997, 82, 4331-4337.	2.5	18
47	Plasmonic grating as a nonlinear converter-coupler. Optics Express, 2012, 20, 1392.	3.4	17
48	Quantitative and Direct Near-Field Analysis of Plasmonic-Induced Transparency and the Observation of a Plasmonic Breathing Mode. ACS Nano, 2016, 10, 2214-2224.	14.6	16
49	Optical nonlinearity versus mechanical anharmonicity contrast in dynamic mode apertureless scanning near-field optical microscopy. Applied Physics Letters, 2005, 87, 163115.	3.3	15
50	Plasmonic antennas, positioning, and coupling of individual quantum systems. Physica Status Solidi (B): Basic Research, 2012, 249, 666-677.	1.5	15
51	Bottomâ€Up Tailoring of Plasmonic Nanopeapods Making Use of the Periodical Topography of Carbon Nanocoil Templates. Advanced Functional Materials, 2012, 22, 5157-5165.	14.9	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. Journal of Optics (United Kingdom), 2014, 16, 114021.	2.2	13
53	MnSe: Rocksalt versus zinc-blende structure. Physical Review B, 1998, 58, 6700-6703.	3.2	12
54	Lattice parameters and optical characterization of Cd1â^'xMgxSe alloys grown by vertical gradient freezing technique. Journal of Crystal Growth, 1999, 203, 51-60.	1.5	12

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55	Suppression of Radiative Damping and Enhancement of Second Harmonic Generation in Bullâ€™s Eye Nanoresonators. ACS Nano, 2016, 10, 475-483.	14.6	11
56	Large-Area Two-Dimensional Plasmonic Meta-Glasses and Meta-Crystals: a Comparative Study. Plasmonics, 2017, 12, 1381-1390.	3.4	10
57	Apertureless near-field optical microscopy: Differences between heterodyne interferometric and non-interferometric images. Ultramicroscopy, 2011, 111, 1469-1474.	1.9	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, .	3.3	9
59	Wavelength-dependent optical degradation of green IIâ€“VI laser diodes. Applied Physics Letters, 1999, 75, 1351-1353.	3.3	7
60	Polarized ultraviolet Raman spectroscopy of Î²-Si3N4. Journal of Applied Physics, 2002, 92, 3103-3106.	2.5	7
61	The phonon density of states in amorphous materials. Journal of Physics Condensed Matter, 2003, 15, S2335-S2341.	1.8	7
62	Beyond lock-in analysis for volumetric imaging in apertureless scanning near-field optical microscopy. Journal of Microscopy, 2008, 229, 365-370.	1.8	6
63	Phase Engineering of Subwavelength Unidirectional Plasmon Launchers. Advanced Optical Materials, 2013, 1, 434-437.	7.3	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.	0.4	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.	1.5	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.	1.5	1
68	Local measurement of hot-electron phase-coherence at metal surfaces. Applied Physics A: Materials Science and Processing, 2007, 88, 443-447.	2.3	1
69	Towards electrical detection of plasmons in allâ€silicon pinâ€diodes. Physica Status Solidi (B): Basic Research, 2012, 249, 773-777.	1.5	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.	14.9	0

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73	Plasmons of Hexamer and Pentamer Nanocavities Probed with Swift Electrons. Microscopy and Microanalysis, 2014, 20, 580-581.	0.4	0
74	Interplay Between Strong Coupling and Radiative Damping in Hybrid Excitonic-Plasmonic Nanostructures. Nano-optics and Nanophotonics, 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. Microscopy and Microanalysis, 2016, 22, 294-295.	0.4	0
77	Interaction between Relativistic Electrons and Mesoscopic Plasmonic Tapers. Microscopy and Microanalysis, 2017, 23, 1534-1535.	0.4	0
78	Recent Advances in Nearfield Optical Analysis and Description of Amorphous Metamaterials. Nano-optics and Nanophotonics, 2013, , 169-200.	0.2	0