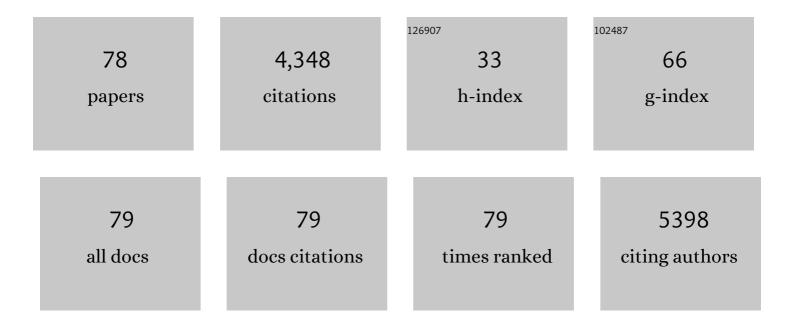
## Ralf Vogelgesang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Vectorial near-field coupling. Nature Nanotechnology, 2019, 14, 698-704.	31.5	29
2	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
3	Large-Area Two-Dimensional Plasmonic Meta-Glasses and Meta-Crystals: a Comparative Study. Plasmonics, 2017, 12, 1381-1390.	3.4	10
4	Interaction between Relativistic Electrons and Mesoscopic Plasmonic Tapers. Microscopy and Microanalysis, 2017, 23, 1534-1535.	0.4	0
5	Plasmons in Mesoscopic Gold Tapers. Microscopy and Microanalysis, 2016, 22, 294-295.	0.4	0
6	Reflection and Phase Matching in Plasmonic Gold Tapers. Nano Letters, 2016, 16, 6137-6144.	9.1	28
7	A linear sensor array with self-bending sensitivity. , 2016, , .		1
8	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
9	Gap-Plasmon-Enhanced Nanofocusing Near-Field Microscopy. ACS Photonics, 2016, 3, 223-232.	6.6	63
10	Suppression of Radiative Damping and Enhancement of Second Harmonic Generation in Bull's Eye Nanoresonators. ACS Nano, 2016, 10, 475-483.	14.6	11
11	Real-space Imaging of Plasmonic Modes of Gold Tapers by EFTEM and EELS. Microscopy and Microanalysis, 2015, 21, 2221-2222.	0.4	3
12	Interplay Between Strong Coupling and Radiative Damping in Hybrid Excitonic-Plasmonic Nanostructures. Nano-optics and Nanophotonics, 2015, , 119-136.	0.2	0
13	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching <i>versus</i> Eigenmode Resonances. ACS Nano, 2015, 9, 7641-7648.	14.6	61
14	Gap Mode Formation in Metallic, Nanofocusing SNOM Tapers for High Spatial Resolution Broadband Spectroscopy. , 2015, , .		0
15	Tetradymites as Natural Hyperbolic Materials for the Near-Infrared to Visible. ACS Photonics, 2014, 1, 1285-1289.	6.6	119
16	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
17	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
18	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. Analyst, The, 2014, 139, 1856.	3.5	45

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19	Toward Plasmonics with Nanometer Precision: Nonlinear Optics of Helium-Ion Milled Gold Nanoantennas. Nano Letters, 2014, 14, 4778-4784.	9.1	174
20	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
21	Plasmons of Hexamer and Pentamer Nanocavities Probed with Swift Electrons. Microscopy and Microanalysis, 2014, 20, 580-581.	0.4	Ο
22	Vibrational near-field mapping of planar and buried three-dimensional plasmonic nanostructures. Nature Communications, 2013, 4, 2237.	12.8	103
23	Phase Engineering of Subwavelength Unidirectional Plasmon Launchers. Advanced Optical Materials, 2013, 1, 434-437.	7.3	5
24	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. New Journal of Physics, 2013, 15, 053013.	2.9	34
25	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
26	Recent Advances in Nearfield Optical Analysis and Description of Amorphous Metamaterials. Nano-optics and Nanophotonics, 2013, , 169-200.	0.2	0
27	Plasmonic grating as a nonlinear converter-coupler. Optics Express, 2012, 20, 1392.	3.4	17
28	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
29	Reciprocity Theory of Apertureless Scanning Near-Field Optical Microscopy with Point-Dipole Probes. ACS Nano, 2012, 6, 8173-8182.	14.6	36
30	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
31	Toroidal Plasmonic Eigenmodes in Oligomer Nanocavities for the Visible. Nano Letters, 2012, 12, 5239-5244.	9.1	141
32	Breaking the Mode Degeneracy of Surface Plasmon Resonances in a Triangular System. Langmuir, 2012, 28, 8867-8873.	3.5	28
33	Towards electrical detection of plasmons in allâ€silicon pinâ€diodes. Physica Status Solidi (B): Basic Research, 2012, 249, 773-777.	1.5	1
34	Plasmonic antennas, positioning, and coupling of individual quantum systems. Physica Status Solidi (B): Basic Research, 2012, 249, 666-677.	1.5	15
35	Long-Distance Indirect Excitation of Nanoplasmonic Resonances. Nano Letters, 2011, 11, 2765-2769.	9.1	36
36	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. Physical Review B, 2011, 83, .	3.2	81

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37	Hybridized Metal Slit Eigenmodes as an Illustration of Babinet's Principle. ACS Nano, 2011, 5, 6701-6706.	14.6	54
38	Near-Field Dynamics of Optical Yagi-Uda Nanoantennas. Nano Letters, 2011, 11, 2819-2824.	9.1	105
39	Plasmonic Oligomers: The Role of Individual Particles in Collective Behavior. ACS Nano, 2011, 5, 2042-2050.	14.6	255
40	3D optical Yagi–Uda nanoantenna array. Nature Communications, 2011, 2, 267.	12.8	292
41	Global Surface Parameterization by Smooth Facet Selection. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1631-1638.	0.4	3
42	Apertureless near-field optical microscopy: Differences between heterodyne interferometric and non-interferometric images. Ultramicroscopy, 2011, 111, 1469-1474.	1.9	9
43	Relating localized nanoparticle resonances to an associated antenna problem. Physical Review B, 2011, 84, .	3.2	28
44	Linear Plasmonic Nano-Antennas: Experiment, Simulation, and Theory. , 2010, , .		0
45	Versatile optical access to the tunnel gap in a low-temperature scanning tunneling microscope. Review of Scientific Instruments, 2010, 81, 113102.	1.3	33
46	Surface plasmon coupling to nanoscale Schottky-type electrical detectors. Applied Physics Letters, 2010, 97, .	3.3	23
47	Real-space imaging of nanoplasmonic resonances. Analyst, The, 2010, 135, 1175.	3.5	66
48	Plasmonic Activity of Large-Area Gold Nanodot Arrays on Arbitrary Substrates. Nano Letters, 2010, 10, 47-51.	9.1	20
49	Transition from Isolated to Collective Modes in Plasmonic Oligomers. Nano Letters, 2010, 10, 2721-2726.	9.1	544
50	Plasmonic Nanowire Antennas: Experiment, Simulation, and Theory. Nano Letters, 2010, 10, 3596-3603.	9.1	194
51	Glimpsing the Weak Magnetic Field of Light. Science, 2009, 326, 529-530.	12.6	34
52	Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. ACS Nano, 2009, 3, 2901-2910.	14.6	92
53	Full simulations of the apertureless scanning near field optical microscopy signal: achievable resolution and contrast. Optics Express, 2009, 17, 2518.	3.4	35
54	Fabry-Pérot Resonances in One-Dimensional Plasmonic Nanostructures. Nano Letters, 2009, 9, 2372-2377.	9.1	276

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55	Plasmonic nanostructures in apertureâ€less scanning nearâ€field optical microscopy (aSNOM). Physica Status Solidi (B): Basic Research, 2008, 245, 2255-2260.	1.5	20
56	Beyond lock-in analysis for volumetric imaging in apertureless scanning near-field optical microscopy. Journal of Microscopy, 2008, 229, 365-370.	1.8	6
57	Amplitude- and phase-resolved optical near fields of split-ring-resonator-based metamaterials. Optics Letters, 2008, 33, 848.	3.3	78
58	Direct Near-Field Optical Imaging of Higher Order Plasmonic Resonances. Nano Letters, 2008, 8, 3155-3159.	9.1	201
59	Local detection of spin-orbit splitting by scanning tunneling spectroscopy. Physical Review B, 2007, 75,	3.2	81
60	Electronicâ€Band‣tructure Mapping of Nanotube Transistors by Scanning Photocurrent Microscopy. Small, 2007, 3, 2038-2042.	10.0	40
61	Local measurement of hot-electron phase-coherence at metal surfaces. Applied Physics A: Materials Science and Processing, 2007, 88, 443-447.	2.3	1
62	Apertureless scanning near field optical microscope with sub-10nm resolution. Review of Scientific Instruments, 2006, 77, 043703.	1.3	99
63	Optical nonlinearity versus mechanical anharmonicity contrast in dynamic mode apertureless scanning near-field optical microscopy. Applied Physics Letters, 2005, 87, 163115.	3.3	15
64	The phonon density of states in amorphous materials. Journal of Physics Condensed Matter, 2003, 15, S2335-S2341.	1.8	7
65	Quantum Coherence of Image-Potential States. Physical Review Letters, 2003, 91, 106802.	7.8	89
66	Polarized ultraviolet Raman spectroscopy of β-Si3N4. Journal of Applied Physics, 2002, 92, 3103-3106.	2.5	7
67	The elastic constants of single crystal β-Si3N4. Applied Physics Letters, 2000, 76, 982-984.	3.3	84
68	Wavelength-dependent optical degradation of green II–VI laser diodes. Applied Physics Letters, 1999, 75, 1351-1353.	3.3	7
69	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
70	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
71	Electronic Raman and infrared spectra of acceptors in isotopically controlled diamonds. Physical Review B, 1998, 57, 15315-15327.	3.2	37
72	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

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73	Photoluminescence of short-period GaAs/AlAs superlattices: A hydrostatic pressure and temperature study. Physical Review B, 1998, 58, 7222-7229.	3.2	28
74	Multiphonon Raman and infrared spectra of isotopically controlled diamond. Physical Review B, 1998, 58, 5408-5416.	3.2	44
75	MnSe: Rocksalt versus zinc-blende structure. Physical Review B, 1998, 58, 6700-6703.	3.2	12
76	Electronic Raman and Infrared Spectra of Isotopically Controlled "Blue―Diamonds. Physical Review Letters, 1997, 79, 1706-1709.	7.8	27
77	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
78	Brillouin and Raman scattering in natural and isotopically controlled diamond. Physical Review B, 1996, 54, 3989-3999.	3.2	131