

# Andreas Hohenau

## List of Publications by Year in descending order

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90  
papers

6,605  
citations

94269

37  
h-index

62479

80  
g-index

90  
all docs

90  
docs citations

90  
times ranked

6880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties of two interacting gold nanoparticles. <i>Optics Communications</i> , 2003, 220, 137-141.	1.0	1,352
2	Silver Nanowires as Surface Plasmon Resonators. <i>Physical Review Letters</i> , 2005, 95, 257403.	2.9	950
3	Optimized surface-enhanced Raman scattering on gold nanoparticle arrays. <i>Applied Physics Letters</i> , 2003, 82, 3095-3097.	1.5	394
4	Leakage radiation microscopy of surface plasmon polaritons. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 149, 220-229.	1.7	231
5	Dark Plasmonic Breathing Modes in Silver Nanodisks. <i>Nano Letters</i> , 2012, 12, 5780-5783.	4.5	198
6	Organic plasmon-emitting diode. <i>Nature Photonics</i> , 2008, 2, 684-687.	15.6	178
7	Dielectric optical elements for surface plasmons. <i>Optics Letters</i> , 2005, 30, 893.	1.7	161
8	Gold particle interaction in regular arrays probed by surface enhanced Raman scattering. <i>Journal of Chemical Physics</i> , 2004, 120, 7141-7146.	1.2	125
9	Conducting Polymer Electrochemical Switching as an Easy Means for Designing Active Plasmonic Devices. <i>Journal of the American Chemical Society</i> , 2005, 127, 16022-16023.	6.6	122
10	Plasmonic Crystal Demultiplexer and Multiports. <i>Nano Letters</i> , 2007, 7, 1697-1700.	4.5	121
11	Thermo-induced Electromagnetic Coupling in Gold/Polymer Hybrid Plasmonic Structures Probed by Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2010, 4, 6491-6500.	7.3	119
12	Experimental Verification of the SERS Electromagnetic Model beyond the $ E ^4$ Approximation: Polarization Effects. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8117-8121.	1.5	115
13	Quantitative analysis of surface plasmon interaction with silver nanoparticles. <i>Optics Letters</i> , 2005, 30, 1524.	1.7	110
14	Grating-induced plasmon mode in gold nanoparticle arrays. <i>Journal of Chemical Physics</i> , 2005, 123, 221103.	1.2	109
15	Tunable Electrochemical Switch of the Optical Properties of Metallic Nanoparticles. <i>ACS Nano</i> , 2008, 2, 728-732.	7.3	102
16	How to erase surface plasmon fringes. <i>Applied Physics Letters</i> , 2006, 89, 091117.	1.5	98
17	Universal dispersion of surface plasmons in flat nanostructures. <i>Nature Communications</i> , 2014, 5, 3604.	5.8	96
18	Efficiency of local light-plasmon coupling. <i>Applied Physics Letters</i> , 2003, 83, 3665-3667.	1.5	89

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19	Surface enhanced Raman spectroscopy on nanolithography-prepared substrates. <i>Current Applied Physics</i> , 2008, 8, 467-470.	1.1	87
20	Measurement and Reduction of Damping in Plasmonic Nanowires. <i>Nano Letters</i> , 2012, 12, 661-665.	4.5	83
21	Influence of surface roughness on the optical properties of plasmonic nanoparticles. <i>Physical Review B</i> , 2011, 83, .	1.1	77
22	Surface plasmon leakage radiation microscopy at the diffraction limit. <i>Optics Express</i> , 2011, 19, 25749.	1.7	74
23	Coupling efficiency of light to surface plasmon polariton for single subwavelength holes in a gold film. <i>Optics Express</i> , 2008, 16, 3420.	1.7	72
24	Active Plasmonic Devices with Anisotropic Optical Response: A Step Toward Active Polarizer. <i>Nano Letters</i> , 2009, 9, 2144-2148.	4.5	68
25	The optical near-field of gold nanoparticle chains. <i>Optics Communications</i> , 2005, 248, 543-549.	1.0	67
26	Spectroscopy and nonlinear microscopy of Au nanoparticle arrays: Experiment and theory. <i>Physical Review B</i> , 2006, 73, .	1.1	67
27	Gold Nanoparticles for Plasmonic Biosensing: The Role of Metal Crystallinity and Nanoscale Roughness. <i>BioNanoScience</i> , 2011, 1, 128-135.	1.5	65
28	Design and Optical Properties of Active Polymer-Coated Plasmonic Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 926-931.	2.1	58
29	Imaging Surface Plasmon of Gold Nanoparticle Arrays by Far-Field Raman Scattering. <i>Nano Letters</i> , 2005, 5, 253-258.	4.5	57
30	Optimization of postgrowth electron-beam curing for focused electron-beam-induced Pt deposits. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, .	0.6	54
31	Coupling dielectric waveguide modes to surface plasmon polaritons. <i>Optics Express</i> , 2008, 16, 10455.	1.7	53
32	Variable tunneling barriers in FEBID based PtC metal-matrix nanocomposites as a transducing element for humidity sensing. <i>Nanotechnology</i> , 2013, 24, 305501.	1.3	50
33	Spectroscopy and nonlinear microscopy of gold nanoparticle arrays on gold films. <i>Physical Review B</i> , 2007, 75, .	1.1	48
34	Electron beam lithography, a helpful tool for nanooptics. <i>Microelectronic Engineering</i> , 2006, 83, 1464-1467.	1.1	47
35	Rapid prototyping of optical components for surface plasmon polaritons. <i>Optics Express</i> , 2007, 15, 4205.	1.7	41
36	Revisiting Surface-Enhanced Raman Scattering on Realistic Lithographic Gold Nanostripes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25650-25658.	1.5	41

#	ARTICLE	IF	CITATIONS
37	Engineering Thermoswitchable Lithographic Hybrid Gold Nanorods as Plasmonic Devices for Sensing and Active Plasmonics Applications. <i>ACS Photonics</i> , 2015, 2, 1199-1208.	3.2	41
38	Surface Plasmon Polariton Mach-Zehnder Interferometer and Oscillation Fringes. <i>Plasmonics</i> , 2006, 1, 141-145.	1.8	35
39	Raman scattering images and spectra of gold ring arrays. <i>Physical Review B</i> , 2006, 73, .	1.1	35
40	Spectral Modifications and Polarization Dependent Coupling in Tailored Assemblies of Quantum Dots and Plasmonic Nanowires. <i>Nano Letters</i> , 2013, 13, 4257-4262.	4.5	35
41	Probing plasmonic breathing modes optically. <i>Applied Physics Letters</i> , 2014, 105, 171103.	1.5	35
42	Near-field and SERS enhancement from rough plasmonic nanoparticles. <i>Physical Review B</i> , 2014, 89, .	1.1	35
43	Electrically actuated elastomers for electro-optical modulators. <i>Applied Physics B: Lasers and Optics</i> , 2006, 85, 7-10.	1.1	33
44	Optical near-field of multipolar plasmons of rod-shaped gold nanoparticles. <i>Europhysics Letters</i> , 2005, 69, 538-543.	0.7	32
45	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. <i>Nano Letters</i> , 2017, 17, 6773-6777.	4.5	31
46	How Dark Are Radial Breathing Modes in Plasmonic Nanodisks?. <i>ACS Photonics</i> , 2018, 5, 861-866.	3.2	30
47	Superresolution Moiré Mapping of Particle Plasmon Modes. <i>Physical Review Letters</i> , 2010, 104, 143901.	2.9	29
48	Controlled addressing of quantum dots by nanowire plasmons. <i>Applied Physics Letters</i> , 2012, 100, 231102.	1.5	29
49	Radiationless energy transfer in CdSe/ZnS quantum dot aggregates embedded in PMMA. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 710-714.	0.8	26
50	Edge scattering of surface plasmons excited by scanning tunneling microscopy. <i>Optics Express</i> , 2013, 21, 13938.	1.7	26
51	Far-Field Raman Imaging of Short-Wavelength Particle Plasmons on Gold Nanorods. <i>Plasmonics</i> , 2006, 1, 35-39.	1.8	25
52	Analysis of the angular acceptance of surface plasmon Bragg mirrors. <i>Optics Letters</i> , 2007, 32, 2704.	1.7	25
53	Plasmonic Dispersion Relations and Intensity Enhancement of Metal-Insulator-Metal Nanodisks. <i>ACS Photonics</i> , 2018, 5, 4823-4827.	3.2	25
54	Surface plasmon interference fringes in back-reflection. <i>Europhysics Letters</i> , 2006, 74, 693-698.	0.7	20

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55	Imaging nanowire plasmon modes with two-photon polymerization. Applied Physics Letters, 2015, 106, .	1.5	19
56	Three-dimensional SU-8 sub-micrometer structuring by electron beam lithography. Microelectronic Engineering, 2008, 85, 1639-1641.	1.1	18
57	Direct fabrication of micro/nano fluidic channels by electron beam lithography. Microelectronic Engineering, 2009, 86, 1314-1316.	1.1	18
58	Comparison of finite-difference time-domain simulations and experiments on the optical properties of gold nanoparticle arrays on gold film. Journal of Optics, 2007, 9, S366-S371.	1.5	15
59	Surface plasmon polariton microscope with parabolic reflectors. Optics Letters, 2007, 32, 2414.	1.7	15
60	Effects of damping on surface-plasmon pulse propagation and refraction. Physical Review B, 2008, 78, .	1.1	15
61	Local refractive index sensitivity of gold nanodisks. Optics Express, 2015, 23, 10293.	1.7	15
62	Edge Mode Coupling within a Plasmonic Nanoparticle. Nano Letters, 2016, 16, 5152-5155.	4.5	15
63	Plasmonic modes of gold nanoparticle arrays on thin gold films. Physica Status Solidi - Rapid Research Letters, 2010, 4, 256-258.	1.2	14
64	Interference of surface plasmon polaritons excited at hole pairs in thin gold films. Applied Physics Letters, 2012, 101, 201102.	1.5	14
65	Probing surface plasmon fields by far-field Raman imaging. Journal of Microscopy, 2008, 229, 189-196.	0.8	13
66	Comment on "Far-Field Optical Microscopy with a Nanometer-Scale Resolution Based on the In-Plane Image Magnification by Surface Plasmon Polaritons", Physical Review Letters, 2007, 98, 209703; discussion 209704.	2.9	11
67	NEAR-FIELD AND FAR-FIELD PROPERTIES OF NANOPARTICLE ARRAYS. , 2007, , 11-25.		10
68	Integrated optical attenuator based on mechanical deformation of an elastomer layer. Applied Physics B: Lasers and Optics, 2011, 104, 931-934.	1.1	10
69	Nanoplasmonic heating and sensing to reveal the dynamics of thermoresponsive polymer brushes. Applied Physics Letters, 2015, 107, .	1.5	10
70	Three dimensional sensitivity characterization of plasmonic nanorods for refractometric biosensors. Nanoscale, 2016, 8, 2974-2981.	2.8	9
71	Analysis of damping-induced phase flips of plasmonic nanowire modes. Optics Letters, 2012, 37, 746.	1.7	8
72	Template-assisted deposition of CTAB-functionalized gold nanoparticles with nanoscale resolution. Journal of Colloid and Interface Science, 2013, 394, 237-242.	5.0	8

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73	The Role of Particle Size in the Dispersion Engineering of Plasmonic Arrays. Journal of Physical Chemistry C, 2020, 124, 2104-2112.	1.5	8
74	Mapping the local particle plasmon sensitivity with a scanning probe. Nanoscale, 2016, 8, 16449-16454.	2.8	7
75	Heisenberg optical near-field microscope. Physical Review A, 2006, 73, .	1.0	6
76	Momentum transfer for momentum transfer-free which-path experiments. Physical Review A, 2006, 73, .	1.0	5
77	Plasmon modes of a silver thin film taper probed with STEM-EELS. Optics Letters, 2015, 40, 5670.	1.7	5
78	Gray State Dynamics in the Blinking of Single Type I Colloidal Quantum Dots. Nano, 2018, 13, 1850039.	0.5	3
79	Core-Shell Nanocuboid Dimers with Nanometric Gaps. Journal of Physical Chemistry C, 2020, 124, 18690-18697.	1.5	3
80	Waveguide-integrated SPR sensing on an all-organic platform. Proceedings of SPIE, 2011, , .	0.8	2
81	Nanostructured fibre tip for trapping of nanoparticles. , 2014, , .		2
82	Coupling Silver Iodide Emitters to Aluminum Plasmons. Journal of Physical Chemistry C, 2021, 125, 2519-2523.	1.5	1
83	Optical properties of tailor-made 1D and 2D noble metal particle arrays. , 2004, 5339, 644.		0
84	Surface plasmon waveguiding and detection: dielectric-loaded metal surfaces. , 2007, , .		0
85	Tunable Electrochemical Switch of the Optical Properties of Metallic Nanoparticles. ECS Transactions, 2009, 25, 89-100.	0.3	0
86	Organic light-emitting diodes as surface plasmon emitters. , 2009, , .		0
87	Fluorescence coupling to plasmonic nanoparticles. Proceedings of SPIE, 2015, , .	0.8	0
88	Photoconductivity of Colloidal Quantum Dot Films in Plasmonic Nanogaps. Proceedings (mdpi), 2020, 56, 23.	0.2	0
89	Correlating Spatially Resolved Photoconductivity and Luminescence in Colloidal Quantum Dot Films. Proceedings (mdpi), 2020, 56, 39.	0.2	0
90	Photoconductivity of PbS Quantum Dot Films in Plasmonic Nanogaps. , 0, , .		0