

# 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	Coupling Silver Iodide Emitters to Aluminum Plasmons. Journal of Physical Chemistry C, 2021, 125, 2519-2523.	1.5	1
2	The Role of Particle Size in the Dispersion Engineering of Plasmonic Arrays. Journal of Physical Chemistry C, 2020, 124, 2104-2112.	1.5	8
3	Core-Shell Nanocuboid Dimers with Nanometric Gaps. Journal of Physical Chemistry C, 2020, 124, 18690-18697.	1.5	3
4	Photoconductivity of Colloidal Quantum Dot Films in Plasmonic Nanogaps. Proceedings (mdpi), 2020, 56, 23.	0.2	0
5	Correlating Spatially Resolved Photoconductivity and Luminescence in Colloidal Quantum Dot Films. Proceedings (mdpi), 2020, 56, 39.	0.2	0
6	How Dark Are Radial Breathing Modes in Plasmonic Nanodisks?. ACS Photonics, 2018, 5, 861-866.	3.2	30
7	Plasmonic Dispersion Relations and Intensity Enhancement of Metal-Insulator-Metal Nanodisks. ACS Photonics, 2018, 5, 4823-4827.	3.2	25
8	Gray State Dynamics in the Blinking of Single Type I Colloidal Quantum Dots. Nano, 2018, 13, 1850039.	0.5	3
9	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. Nano Letters, 2017, 17, 6773-6777.	4.5	31
10	Mapping the local particle plasmon sensitivity with a scanning probe. Nanoscale, 2016, 8, 16449-16454.	2.8	7
11	Edge Mode Coupling within a Plasmonic Nanoparticle. Nano Letters, 2016, 16, 5152-5155.	4.5	15
12	Three dimensional sensitivity characterization of plasmonic nanorods for refractometric biosensors. Nanoscale, 2016, 8, 2974-2981.	2.8	9
13	Nanoplasmonic heating and sensing to reveal the dynamics of thermoresponsive polymer brushes. Applied Physics Letters, 2015, 107, .	1.5	10
14	Plasmon modes of a silver thin film taper probed with STEM-EELS. Optics Letters, 2015, 40, 5670.	1.7	5
15	Imaging nanowire plasmon modes with two-photon polymerization. Applied Physics Letters, 2015, 106, .	1.5	19
16	Engineering Thermoswitchable Lithographic Hybrid Gold Nanorods as Plasmonic Devices for Sensing and Active Plasmonics Applications. ACS Photonics, 2015, 2, 1199-1208.	3.2	41
17	Fluorescence coupling to plasmonic nanoparticles. Proceedings of SPIE, 2015, , .	0.8	0
18	Local refractive index sensitivity of gold nanodisks. Optics Express, 2015, 23, 10293.	1.7	15

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19	Probing plasmonic breathing modes optically. Applied Physics Letters, 2014, 105, 171103.	1.5	35
20	Nanostructured fibre tip for trapping of nanoparticles. , 2014, , .		2
21	Near-field and SERS enhancement from rough plasmonic nanoparticles. Physical Review B, 2014, 89, .	1.1	35
22	Universal dispersion of surface plasmons in flat nanostructures. Nature Communications, 2014, 5, 3604.	5.8	96
23	Spectral Modifications and Polarization Dependent Coupling in Tailored Assemblies of Quantum Dots and Plasmonic Nanowires. Nano Letters, 2013, 13, 4257-4262.	4.5	35
24	Template-assisted deposition of CTAB-functionalized gold nanoparticles with nanoscale resolution. Journal of Colloid and Interface Science, 2013, 394, 237-242.	5.0	8
25	Variable tunneling barriers in FEBID based PtC metal-matrix nanocomposites as a transducing element for humidity sensing. Nanotechnology, 2013, 24, 305501.	1.3	50
26	Revisiting Surface-Enhanced Raman Scattering on Realistic Lithographic Gold Nanostripes. Journal of Physical Chemistry C, 2013, 117, 25650-25658.	1.5	41
27	Edge scattering of surface plasmons excited by scanning tunneling microscopy. Optics Express, 2013, 21, 13938.	1.7	26
28	Analysis of damping-induced phase flips of plasmonic nanowire modes. Optics Letters, 2012, 37, 746.	1.7	8
29	Interference of surface plasmon polaritons excited at hole pairs in thin gold films. Applied Physics Letters, 2012, 101, 201102.	1.5	14
30	Measurement and Reduction of Damping in Plasmonic Nanowires. Nano Letters, 2012, 12, 661-665.	4.5	83
31	Controlled addressing of quantum dots by nanowire plasmons. Applied Physics Letters, 2012, 100, 231102.	1.5	29
32	Dark Plasmonic Breathing Modes in Silver Nanodisks. Nano Letters, 2012, 12, 5780-5783.	4.5	198
33	Waveguide-integrated SPR sensing on an all-organic platform. Proceedings of SPIE, 2011, , .	0.8	2
34	Design and Optical Properties of Active Polymer-Coated Plasmonic Nanostructures. Journal of Physical Chemistry Letters, 2011, 2, 926-931.	2.1	58
35	Influence of surface roughness on the optical properties of plasmonic nanoparticles. Physical Review B, 2011, 83, .	1.1	77
36	Surface plasmon leakage radiation microscopy at the diffraction limit. Optics Express, 2011, 19, 25749.	1.7	74

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37	Integrated optical attenuator based on mechanical deformation of an elastomer layer. Applied Physics B: Lasers and Optics, 2011, 104, 931-934.	1.1	10
38	Gold Nanoparticles for Plasmonic Biosensing: The Role of Metal Crystallinity and Nanoscale Roughness. BioNanoScience, 2011, 1, 128-135.	1.5	65
39	Radiationless energy transfer in CdSe/ZnS quantum dot aggregates embedded in PMMA. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 710-714.	0.8	26
40	Optimization of postgrowth electron-beam curing for focused electron-beam-induced Pt deposits. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, .	0.6	54
41	Plasmonic modes of gold nanoparticle arrays on thin gold films. Physica Status Solidi - Rapid Research Letters, 2010, 4, 256-258.	1.2	14
42	Superresolution Moiré Mapping of Particle Plasmon Modes. Physical Review Letters, 2010, 104, 143901.	2.9	29
43	Thermo-induced Electromagnetic Coupling in Gold/Polymer Hybrid Plasmonic Structures Probed by Surface-Enhanced Raman Scattering. ACS Nano, 2010, 4, 6491-6500.	7.3	119
44	Tunable Electrochemical Switch of the Optical Properties of Metallic Nanoparticles. ECS Transactions, 2009, 25, 89-100.	0.3	0
45	Direct fabrication of micro/nano fluidic channels by electron beam lithography. Microelectronic Engineering, 2009, 86, 1314-1316.	1.1	18
46	Active Plasmonic Devices with Anisotropic Optical Response: A Step Toward Active Polarizer. Nano Letters, 2009, 9, 2144-2148.	4.5	68
47	Organic light-emitting diodes as surface plasmon emitters. , 2009, , .		0
48	Surface enhanced Raman spectroscopy on nanolithography-prepared substrates. Current Applied Physics, 2008, 8, 467-470.	1.1	87
49	Leakage radiation microscopy of surface plasmon polaritons. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 220-229.	1.7	231
50	Three-dimensional SU-8 sub-micrometer structuring by electron beam lithography. Microelectronic Engineering, 2008, 85, 1639-1641.	1.1	18
51	Organic plasmon-emitting diode. Nature Photonics, 2008, 2, 684-687.	15.6	178
52	Probing surface plasmon fields by far-field Raman imaging. Journal of Microscopy, 2008, 229, 189-196.	0.8	13
53	Tunable Electrochemical Switch of the Optical Properties of Metallic Nanoparticles. ACS Nano, 2008, 2, 728-732.	7.3	102
54	Experimental Verification of the SERS Electromagnetic Model beyond the $ E $ Approximation: Polarization Effects. Journal of Physical Chemistry C, 2008, 112, 8117-8121.	1.5	115

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55	Coupling efficiency of light to surface plasmon polariton for single subwavelength holes in a gold film. Optics Express, 2008, 16, 3420.	1.7	72
56	Coupling dielectric waveguide modes to surface plasmon polaritons. Optics Express, 2008, 16, 10455.	1.7	53
57	Effects of damping on surface-plasmon pulse propagation and refraction. Physical Review B, 2008, 78, .	1.1	15
58	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
59	Spectroscopy and nonlinear microscopy of gold nanoparticle arrays on gold films. Physical Review B, 2007, 75, .	1.1	48
60	NEAR-FIELD AND FAR-FIELD PROPERTIES OF NANOPARTICLE ARRAYS. , 2007, , 11-25.		10
61	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
62	Surface plasmon waveguiding and detection: dielectric-loaded metal surfaces. , 2007, , .		0
63	Surface plasmon polariton microscope with parabolic reflectors. Optics Letters, 2007, 32, 2414.	1.7	15
64	Analysis of the angular acceptance of surface plasmon Bragg mirrors. Optics Letters, 2007, 32, 2704.	1.7	25
65	Rapid prototyping of optical components for surface plasmon polaritons. Optics Express, 2007, 15, 4205.	1.7	41
66	Plasmonic Crystal Demultiplexer and Multiports. Nano Letters, 2007, 7, 1697-1700.	4.5	121
67	Spectroscopy and nonlinear microscopy of Au nanoparticle arrays: Experiment and theory. Physical Review B, 2006, 73, .	1.1	67
68	Surface plasmon interference fringes in back-reflection. Europhysics Letters, 2006, 74, 693-698.	0.7	20
69	Electrically actuated elastomers for electro-optical modulators. Applied Physics B: Lasers and Optics, 2006, 85, 7-10.	1.1	33
70	Electron beam lithography, a helpful tool for nanooptics. Microelectronic Engineering, 2006, 83, 1464-1467.	1.1	47
71	Far-Field Raman Imaging of Short-Wavelength Particle Plasmons on Gold Nanorods. Plasmonics, 2006, 1, 35-39.	1.8	25
72	Surface Plasmon Polariton Mach-Zehnder Interferometer and Oscillation Fringes. Plasmonics, 2006, 1, 141-145.	1.8	35

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73	How to erase surface plasmon fringes. Applied Physics Letters, 2006, 89, 091117.	1.5	98
74	Momentum transfer for momentum transfer-free which-path experiments. Physical Review A, 2006, 73, .	1.0	5
75	Raman scattering images and spectra of gold ring arrays. Physical Review B, 2006, 73, .	1.1	35
76	Heisenberg optical near-field microscope. Physical Review A, 2006, 73, .	1.0	6
77	The optical near-field of gold nanoparticle chains. Optics Communications, 2005, 248, 543-549.	1.0	67
78	Optical near-field of multipolar plasmons of rod-shaped gold nanoparticles. Europhysics Letters, 2005, 69, 538-543.	0.7	32
79	Conducting Polymer Electrochemical Switching as an Easy Means for Designing Active Plasmonic Devices. Journal of the American Chemical Society, 2005, 127, 16022-16023.	6.6	122
80	Dielectric optical elements for surface plasmons. Optics Letters, 2005, 30, 893.	1.7	161
81	Quantitative analysis of surface plasmon interaction with silver nanoparticles. Optics Letters, 2005, 30, 1524.	1.7	110
82	Silver Nanowires as Surface Plasmon Resonators. Physical Review Letters, 2005, 95, 257403.	2.9	950
83	Imaging Surface Plasmon of Gold Nanoparticle Arrays by Far-Field Raman Scattering. Nano Letters, 2005, 5, 253-258.	4.5	57
84	Grating-induced plasmon mode in gold nanoparticle arrays. Journal of Chemical Physics, 2005, 123, 221103.	1.2	109
85	Gold particle interaction in regular arrays probed by surface enhanced Raman scattering. Journal of Chemical Physics, 2004, 120, 7141-7146.	1.2	125
86	Optical properties of tailor-made 1D and 2D noble metal particle arrays. , 2004, 5339, 644.		0
87	Optical properties of two interacting gold nanoparticles. Optics Communications, 2003, 220, 137-141.	1.0	1,352
88	Efficiency of local light-plasmon coupling. Applied Physics Letters, 2003, 83, 3665-3667.	1.5	89
89	Optimized surface-enhanced Raman scattering on gold nanoparticle arrays. Applied Physics Letters, 2003, 82, 3095-3097.	1.5	394
90	Photoconductivity of PbS Quantum Dot Films in Plasmonic Nanogaps. , 0, , .		0