

# Andreas TrÃ¼gler

## List of Publications by Year in descending order

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46  
papers

3,268  
citations

236925

25  
h-index

289244

40  
g-index

48  
all docs

48  
docs citations

48  
times ranked

4328  
citing authors

#	ARTICLE	IF	CITATIONS
1	MNPBEM – A Matlab toolbox for the simulation of plasmonic nanoparticles. Computer Physics Communications, 2012, 183, 370-381.	7.5	644
2	The Optimal Aspect Ratio of Gold Nanorods for Plasmonic Bio-sensing. Plasmonics, 2010, 5, 161-167.	3.4	430
3	Ultrafast Strong-Field Photoemission from Plasmonic Nanoparticles. Nano Letters, 2013, 13, 674-678.	9.1	238
4	Mapping vibrational surface and bulk modes in a single nanocube. Nature, 2017, 543, 529-532.	27.8	215
5	Strong coupling between a metallic nanoparticle and a single molecule. Physical Review B, 2008, 77, .	3.2	205
6	Plasmonics simulations with the MNPBEM toolbox: Consideration of substrates and layer structures. Computer Physics Communications, 2015, 193, 138-150.	7.5	165
7	Tailoring Spatiotemporal Light Confinement in Single Plasmonic Nanoantennas. Nano Letters, 2012, 12, 992-996.	9.1	162
8	High-resolution surface plasmon imaging of gold nanoparticles by energy-filtered transmission electron microscopy. Physical Review B, 2009, 79, .	3.2	154
9	Highly Sensitive Plasmonic Silver Nanorods. ACS Nano, 2011, 5, 6880-6885.	14.6	135
10	Nanoantenna-Enhanced Light–Matter Interaction in Atomically Thin WS <sub>2</sub> . ACS Photonics, 2015, 2, 1260-1265.	6.6	114
11	Influence of surface roughness on the optical properties of plasmonic nanoparticles. Physical Review B, 2011, 83, .	3.2	77
12	Tomography of Particle Plasmon Fields from Electron Energy Loss Spectroscopy. Physical Review Letters, 2013, 111, 076801.	7.8	56
13	Interaction of Single Molecules With Metallic Nanoparticles. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1430-1440.	2.9	55
14	Tomographic imaging of the photonic environment of plasmonic nanoparticles. Nature Communications, 2017, 8, 37.	12.8	51
15	Optical Properties of Metallic Nanoparticles. Springer Series in Materials Science, 2016, , .	0.6	47
16	Plasmon Mapping in Au@Ag Nanocube Assemblies. Journal of Physical Chemistry C, 2014, 118, 15356-15362.	3.1	45
17	Optical near-field excitation at commercial scanning probe microscopy tips: a theoretical and experimental investigation. Physical Chemistry Chemical Physics, 2014, 16, 2289-2296.	2.8	40
18	Gap plasmonics of silver nanocube dimers. Physical Review B, 2016, 93, .	3.2	40

#	ARTICLE	IF	CITATIONS
19	Full Three-Dimensional Reconstruction of the Dyadic Green Tensor from Electron Energy Loss Spectroscopy of Plasmonic Nanoparticles. <i>ACS Photonics</i> , 2015, 2, 1429-1435.	6.6	37
20	Spectral Modifications and Polarization Dependent Coupling in Tailored Assemblies of Quantum Dots and Plasmonic Nanowires. <i>Nano Letters</i> , 2013, 13, 4257-4262.	9.1	35
21	Probing plasmonic breathing modes optically. <i>Applied Physics Letters</i> , 2014, 105, 171103.	3.3	35
22	Near-field and SERS enhancement from rough plasmonic nanoparticles. <i>Physical Review B</i> , 2014, 89, .	3.2	35
23	Correlated 3D Nanoscale Mapping and Simulation of Coupled Plasmonic Nanoparticles. <i>Nano Letters</i> , 2015, 15, 7726-7730.	9.1	35
24	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. <i>Nano Letters</i> , 2017, 17, 6773-6777.	9.1	31
25	Superresolution Moiré Mapping of Particle Plasmon Modes. <i>Physical Review Letters</i> , 2010, 104, 143901.	7.8	29
26	Surface plasmons in doped topological insulators. <i>Physical Review B</i> , 2013, 88, .	3.2	20
27	Excitation of long-wavelength surface optical vibrational modes in films, cubes and film/cube composite system using an atom-sized electron beam. <i>Microscopy (Oxford, England)</i> , 2018, 67, i3-i13.	1.5	20
28	Imaging nanowire plasmon modes with two-photon polymerization. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	19
29	Inelastic vibrational bulk and surface losses of swift electrons in ionic nanostructures. <i>Physical Review B</i> , 2018, 97, .	3.2	18
30	Local refractive index sensitivity of gold nanodisks. <i>Optics Express</i> , 2015, 23, 10293.	3.4	15
31	Effect of multipole excitations in electron energy-loss spectroscopy of surface plasmon modes in silver nanowires. <i>Journal of Applied Physics</i> , 2014, 116, 223101.	2.5	12
32	Plasmonics simulations including nonlocal effects using a boundary element method approach. <i>International Journal of Modern Physics B</i> , 2017, 31, 1740007.	2.0	12
33	Novel Modal Approximation Scheme for Plasmonic Transmission Problems. <i>Physical Review Letters</i> , 2018, 121, 246802.	7.8	10
34	Three dimensional sensitivity characterization of plasmonic nanorods for refractometric biosensors. <i>Nanoscale</i> , 2016, 8, 2974-2981.	5.6	9
35	Mapping the local particle plasmon sensitivity with a scanning probe. <i>Nanoscale</i> , 2016, 8, 16449-16454.	5.6	7
36	Plasmon modes of a silver thin film taper probed with STEM-EELS. <i>Optics Letters</i> , 2015, 40, 5670.	3.3	5

#	ARTICLE	IF	CITATIONS
37	Optical excitations of hybrid metal-semiconductor nanoparticles. European Physical Journal B, 2015, 88, 1.	1.5	5
38	Mapping excitons in semiconducting carbon nanotubes with plasmonic nanoparticles. Physical Review B, 2011, 83, .	3.2	4
39	Influence of Surface Roughness. Springer Series in Materials Science, 2016, , 149-156.	0.6	1
40	Modeling the Optical Response of Metallic Nanoparticles. Springer Series in Materials Science, 2016, , 101-127.	0.6	1
41	Plasmonic Silver Nanorod Sensitivity: Experiment and Simple Theoretical Treatment. , 2013, , .		0
42	Analytical Electron Tomography: Methods and Applications. Microscopy and Microanalysis, 2015, 21, 2171-2172.	0.4	0
43	The World of Plasmons. Springer Series in Materials Science, 2016, , 11-57.	0.6	0
44	Nonlinear Optical Effects of Plasmonic Nanoparticles. Springer Series in Materials Science, 2016, , 157-162.	0.6	0
45	Imaging of Surface Plasmons. Springer Series in Materials Science, 2016, , 131-147.	0.6	0
46	Electron energy-loss spectroscopy of surface plasmon modes in silver nanowires: reconciling experiment and theory. , 2014, , .		0