

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	Inelastic vibrational bulk and surface losses of swift electrons in ionic nanostructures. <i>Physical Review B</i> , 2018, 97, .	3.2	18
2	Novel Modal Approximation Scheme for Plasmonic Transmission Problems. <i>Physical Review Letters</i> , 2018, 121, 246802.	7.8	10
3	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
4	Mapping vibrational surface and bulk modes in a single nanocube. <i>Nature</i> , 2017, 543, 529-532.	27.8	215
5	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. <i>Nano Letters</i> , 2017, 17, 6773-6777.	9.1	31
6	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
7	Tomographic imaging of the photonic environment of plasmonic nanoparticles. <i>Nature Communications</i> , 2017, 8, 37.	12.8	51
8	The World of Plasmons. <i>Springer Series in Materials Science</i> , 2016, , 11-57.	0.6	0
9	Influence of Surface Roughness. <i>Springer Series in Materials Science</i> , 2016, , 149-156.	0.6	1
10	Nonlinear Optical Effects of Plasmonic Nanoparticles. <i>Springer Series in Materials Science</i> , 2016, , 157-162.	0.6	0
11	Modeling the Optical Response of Metallic Nanoparticles. <i>Springer Series in Materials Science</i> , 2016, , 101-127.	0.6	1
12	Imaging of Surface Plasmons. <i>Springer Series in Materials Science</i> , 2016, , 131-147.	0.6	0
13	Optical Properties of Metallic Nanoparticles. <i>Springer Series in Materials Science</i> , 2016, , .	0.6	47
14	Mapping the local particle plasmon sensitivity with a scanning probe. <i>Nanoscale</i> , 2016, 8, 16449-16454.	5.6	7
15	Gap plasmonics of silver nanocube dimers. <i>Physical Review B</i> , 2016, 93, .	3.2	40
16	Three dimensional sensitivity characterization of plasmonic nanorods for refractometric biosensors. <i>Nanoscale</i> , 2016, 8, 2974-2981.	5.6	9
17	Analytical Electron Tomography: Methods and Applications. <i>Microscopy and Microanalysis</i> , 2015, 21, 2171-2172.	0.4	0
18	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
19	Optical excitations of hybrid metal-semiconductor nanoparticles. European Physical Journal B, 2015, 88, 1.	1.5	5
20	Imaging nanowire plasmon modes with two-photon polymerization. Applied Physics Letters, 2015, 106, .	3.3	19
21	Nanoantenna-Enhanced Light-Matter Interaction in Atomically Thin WS ₂ . ACS Photonics, 2015, 2, 1260-1265.	6.6	114
22	Plasmonics simulations with the MNPBEM toolbox: Consideration of substrates and layer structures. Computer Physics Communications, 2015, 193, 138-150.	7.5	165
23	Local refractive index sensitivity of gold nanodisks. Optics Express, 2015, 23, 10293.	3.4	15
24	Correlated 3D Nanoscale Mapping and Simulation of Coupled Plasmonic Nanoparticles. Nano Letters, 2015, 15, 7726-7730.	9.1	35
25	Full Three-Dimensional Reconstruction of the Dyadic Green Tensor from Electron Energy Loss Spectroscopy of Plasmonic Nanoparticles. ACS Photonics, 2015, 2, 1429-1435.	6.6	37
26	Probing plasmonic breathing modes optically. Applied Physics Letters, 2014, 105, 171103.	3.3	35
27	Effect of multipole excitations in electron energy-loss spectroscopy of surface plasmon modes in silver nanowires. Journal of Applied Physics, 2014, 116, 223101.	2.5	12
28	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
29	Plasmon Mapping in Au@Ag Nanocube Assemblies. Journal of Physical Chemistry C, 2014, 118, 15356-15362.	3.1	45
30	Near-field and SERS enhancement from rough plasmonic nanoparticles. Physical Review B, 2014, 89, .	3.2	35
31	Electron energy-loss spectroscopy of surface plasmon modes in silver nanowires: reconciling experiment and theory. , 2014, , .		0
32	Spectral Modifications and Polarization Dependent Coupling in Tailored Assemblies of Quantum Dots and Plasmonic Nanowires. Nano Letters, 2013, 13, 4257-4262.	9.1	35
33	Surface plasmons in doped topological insulators. Physical Review B, 2013, 88, .	3.2	20
34	Ultrafast Strong-Field Photoemission from Plasmonic Nanoparticles. Nano Letters, 2013, 13, 674-678.	9.1	238
35	Tomography of Particle Plasmon Fields from Electron Energy Loss Spectroscopy. Physical Review Letters, 2013, 111, 076801.	7.8	56
36	Plasmonic Silver Nanorod Sensitivity: Experiment and Simple Theoretical Treatment. , 2013, , .		0

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37	Tailoring Spatiotemporal Light Confinement in Single Plasmonic Nanoantennas. Nano Letters, 2012, 12, 992-996.	9.1	162
38	MNPBEM – A Matlab toolbox for the simulation of plasmonic nanoparticles. Computer Physics Communications, 2012, 183, 370-381.	7.5	644
39	Highly Sensitive Plasmonic Silver Nanorods. ACS Nano, 2011, 5, 6880-6885.	14.6	135
40	Influence of surface roughness on the optical properties of plasmonic nanoparticles. Physical Review B, 2011, 83, .	3.2	77
41	Mapping excitons in semiconducting carbon nanotubes with plasmonic nanoparticles. Physical Review B, 2011, 83, .	3.2	4
42	The Optimal Aspect Ratio of Gold Nanorods for Plasmonic Bio-sensing. Plasmonics, 2010, 5, 161-167.	3.4	430
43	Superresolution Moiré Mapping of Particle Plasmon Modes. Physical Review Letters, 2010, 104, 143901.	7.8	29
44	High-resolution surface plasmon imaging of gold nanoparticles by energy-filtered transmission electron microscopy. Physical Review B, 2009, 79, .	3.2	154
45	Interaction of Single Molecules With Metallic Nanoparticles. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1430-1440.	2.9	55
46	Strong coupling between a metallic nanoparticle and a single molecule. Physical Review B, 2008, 77, .	3.2	205