

Peter Johansson

List of Publications by Year in descending order

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59
papers

3,851
citations

159585

30
h-index

161849

54
g-index

60
all docs

60
docs citations

60
times ranked

4064
citing authors

#	ARTICLE	IF	CITATIONS
1	Inelastic tunneling excitation of tip-induced plasmon modes on noble-metal surfaces. <i>Physical Review Letters</i> , 1991, 67, 3796-3799.	7.8	424
2	A bimetallic nanoantenna for directional colour routing. <i>Nature Communications</i> , 2011, 2, 481.	12.8	302
3	Theory for light emission from a scanning tunneling microscope. <i>Physical Review B</i> , 1990, 42, 9210-9213.	3.2	293
4	Surface-enhanced Raman scattering and fluorescence near metal nanoparticles. <i>Physical Review B</i> , 2005, 72, .	3.2	274
5	Approaching the strong coupling limit in single plasmonic nanorods interacting with J-aggregates. <i>Scientific Reports</i> , 2013, 3, 3074.	3.3	210
6	Unidirectional Broadband Light Emission from Supported Plasmonic Nanowires. <i>Nano Letters</i> , 2011, 11, 706-711.	9.1	205
7	Laser Trapping of Colloidal Metal Nanoparticles. <i>ACS Nano</i> , 2015, 9, 3453-3469.	14.6	193
8	Unified Treatment of Fluorescence and Raman Scattering Processes near Metal Surfaces. <i>Physical Review Letters</i> , 2004, 93, 243002.	7.8	191
9	Directional Scattering and Hydrogen Sensing by Bimetallic Pd@Au Nanoantennas. <i>Nano Letters</i> , 2012, 12, 2464-2469.	9.1	150
10	Ultrafast Spinning of Gold Nanoparticles in Water Using Circularly Polarized Light. <i>Nano Letters</i> , 2013, 13, 3129-3134.	9.1	129
11	Gold Nanorod Rotary Motors Driven by Resonant Light Scattering. <i>ACS Nano</i> , 2015, 9, 12542-12551.	14.6	109
12	Light emission from a scanning tunneling microscope: Fully retarded calculation. <i>Physical Review B</i> , 1998, 58, 10823-10834.	3.2	97
13	Electron-Plasmon and Electron-Electron Interactions at a Single Atom Contact. <i>Physical Review Letters</i> , 2009, 102, 057401.	7.8	91
14	Field enhancement and molecular response in surface-enhanced Raman scattering and fluorescence spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 510-514.	2.5	79
15	Macroscopic Layers of Chiral Plasmonic Nanoparticle Oligomers from Colloidal Lithography. <i>ACS Photonics</i> , 2014, 1, 1074-1081.	6.6	77
16	Optical Forces in Plasmonic Nanoparticle Dimers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7472-7479.	3.1	74
17	Large-Scale Silicon Nanophotonic Metasurfaces with Polarization Independent Near-Perfect Absorption. <i>Nano Letters</i> , 2017, 17, 3054-3060.	9.1	72
18	Magnetophonon shakeup in a Wigner crystal: Applications to tunneling spectroscopy in the quantum Hall regime. <i>Physical Review Letters</i> , 1993, 71, 1435-1438.	7.8	63

#	ARTICLE	IF	CITATIONS
19	FRET enhancement close to gold nanoparticles positioned in DNA origami constructs. <i>Nanoscale</i> , 2017, 9, 673-683.	5.6	59
20	Resonant tunneling with a time-dependent voltage. <i>Physical Review B</i> , 1990, 41, 9892-9898.	3.2	56
21	Plasmonic particles set into fast orbital motion by an optical vortex beam. <i>Optics Express</i> , 2014, 22, 4349.	3.4	55
22	Two-Electron Photon Emission from Metallic Quantum Wells. <i>Physical Review Letters</i> , 2003, 90, 046803.	7.8	47
23	Plasmon Hybridization Reveals the Interaction between Individual Colloidal Gold Nanoparticles Confined in an Optical Potential Well. <i>Nano Letters</i> , 2011, 11, 4505-4508.	9.1	46
24	Theory for photon emission from a scanning tunneling microscope. <i>European Physical Journal B</i> , 1991, 84, 269-275.	1.5	44
25	Geometry effects on the van der Waals force in atomic force microscopy. <i>Physical Review B</i> , 1997, 56, 4159-4165.	3.2	36
26	Tunneling through a double-barrier structure irradiated by infrared radiation. <i>Physical Review B</i> , 1992, 46, 1451-1462.	3.2	35
27	Probing Photothermal Effects on Optically Trapped Gold Nanorods by Simultaneous Plasmon Spectroscopy and Brownian Dynamics Analysis. <i>ACS Nano</i> , 2017, 11, 10053-10061.	14.6	34
28	Brownian fluctuations of an optically rotated nanorod. <i>Optica</i> , 2017, 4, 746.	9.3	33
29	Tunneling between two two-dimensional electron systems in a strong magnetic field. <i>Physical Review B</i> , 1994, 50, 4671-4686.	3.2	31
30	Electromagnetic Green's function for layered systems: Applications to nanohole interactions in thin metal films. <i>Physical Review B</i> , 2011, 83, .	3.2	31
31	Green's tensor calculations of plasmon resonances of single holes and hole pairs in thin gold films. <i>New Journal of Physics</i> , 2008, 10, 105004.	2.9	27
32	Simulating light scattering from supported plasmonic nanowires. <i>Optics Express</i> , 2012, 20, 10816.	3.4	25
33	Complete Light Annihilation in an Ultrathin Layer of Gold Nanoparticles. <i>Nano Letters</i> , 2013, 13, 3053-3058.	9.1	24
34	Hot electron cascades in the scanning tunneling microscope. <i>Physical Review B</i> , 2013, 87, .	3.2	23
35	Directional scattering and multipolar contributions to optical forces on silicon nanoparticles in focused laser beams. <i>Optics Express</i> , 2018, 26, 29074.	3.4	22
36	Directional Nanoplasmonic Antennas for Self-Referenced Refractometric Molecular Analysis. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21075-21080.	3.1	21

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37	Surface Interactions of Gold Nanoparticles Optically Trapped against an Interface. Journal of Physical Chemistry C, 2019, 123, 16406-16414.	3.1	16
38	Tip-geometry effects in circularly polarized light emission from a scanning tunneling microscope. Physical Review B, 1999, 59, 5126-5133.	3.2	14
39	Mode-specific directional emission from hybridized particle-on-a-film plasmons. Optics Express, 2011, 19, 12856.	3.4	14
40	Diffraction from Arrays of Plasmonic Nanoparticles with Short-Range Lateral Order. ACS Nano, 2012, 6, 9455-9465.	14.6	14
41	Light emission from Na/Cu(111) induced by a scanning tunneling microscope. Physical Review B, 2002, 66, .	3.2	13
42	Optically controlled stochastic jumps of individual gold nanorod rotary motors. Physical Review B, 2018, 98, .	3.2	13
43	Theory of interface-roughness scattering in resonant tunneling. Physical Review B, 1993, 48, 8938-8947.	3.2	12
44	Butterfly-like spectra and collective modes of antidot superlattices in magnetic fields. Physical Review B, 1999, 60, 7744-7747.	3.2	11
45	Light scattering from disordered overlayers of metallic nanoparticles. Physical Review B, 2001, 64, .	3.2	11
46	Effects of interface-roughness scattering on resonant tunneling. Physical Review B, 1992, 46, 12865-12868.	3.2	9
47	Theory of inelastic x-ray scattering by phonons in ice. Physical Review B, 1996, 54, 2988-2991.	3.2	9
48	Optical Tweezing and Photothermal Properties of Resonant Dielectric and Metallic Nanospheres. ACS Photonics, 2020, 7, 2405-2412.	6.6	7
49	Theory of a magnetic microscope with nanometer resolution. Physical Review B, 2001, 64, .	3.2	6
50	Theory of inelastic x-ray scattering in layered superconductors. Physical Review B, 1996, 53, 8726-8732.	3.2	5
51	Top-down extended meshing algorithm and its applications to Green's tensor nano-optics calculations. Physical Review E, 2007, 75, 046702.	2.1	5
52	Calculation of Resonantly Enhanced Light Emission from a Scanning Tunneling Microscope. , 1993, , 341-352.		5
53	Cyclotron resonance line shape in a Wigner crystal. Physical Review B, 1994, 50, 14734-14737.	3.2	2
54	Electronic structure of antidot superlattices in commensurate magnetic fields. Journal of Physics Condensed Matter, 2001, 13, 3365-3379.	1.8	2

#	ARTICLE	IF	CITATIONS
55	Coulomb blockade in two-dimensional electron systems in a strong magnetic field. Physica B: Condensed Matter, 1995, 212, 278-282.	2.7	0
56	Tunneling between two-dimensional electron systems in a strong magnetic field. Physica B: Condensed Matter, 1995, 210, 446-451.	2.7	0
57	Plasmonic nanoantennas for SERS, directional light, sensing and strong coupling. , 2013, , .		0
58	Calculation of the cyclotron resonance line shape in a wigner crystal. Physica Scripta, 1997, T69, 73-78.	2.5	0
59	Optical Forces and the First Kerker Condition. , 2019, , .		0