

# 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	Optical Tweezing and Photothermal Properties of Resonant Dielectric and Metallic Nanospheres. ACS Photonics, 2020, 7, 2405-2412.	6.6	7
2	Surface Interactions of Gold Nanoparticles Optically Trapped against an Interface. Journal of Physical Chemistry C, 2019, 123, 16406-16414.	3.1	16
3	Optical Forces and the First Kerker Condition. , 2019, , .		0
4	Optically controlled stochastic jumps of individual gold nanorod rotary motors. Physical Review B, 2018, 98, .	3.2	13
5	Directional scattering and multipolar contributions to optical forces on silicon nanoparticles in focused laser beams. Optics Express, 2018, 26, 29074.	3.4	22
6	Large-Scale Silicon Nanophotonic Metasurfaces with Polarization Independent Near-Perfect Absorption. Nano Letters, 2017, 17, 3054-3060.	9.1	72
7	FRET enhancement close to gold nanoparticles positioned in DNA origami constructs. Nanoscale, 2017, 9, 673-683.	5.6	59
8	Probing Photothermal Effects on Optically Trapped Gold Nanorods by Simultaneous Plasmon Spectroscopy and Brownian Dynamics Analysis. ACS Nano, 2017, 11, 10053-10061.	14.6	34
9	Brownian fluctuations of an optically rotated nanorod. Optica, 2017, 4, 746.	9.3	33
10	Gold Nanorod Rotary Motors Driven by Resonant Light Scattering. ACS Nano, 2015, 9, 12542-12551.	14.6	109
11	Laser Trapping of Colloidal Metal Nanoparticles. ACS Nano, 2015, 9, 3453-3469.	14.6	193
12	Plasmonic particles set into fast orbital motion by an optical vortex beam. Optics Express, 2014, 22, 4349.	3.4	55
13	Directional Nanoplasmonic Antennas for Self-Referenced Refractometric Molecular Analysis. Journal of Physical Chemistry C, 2014, 118, 21075-21080.	3.1	21
14	Macroscopic Layers of Chiral Plasmonic Nanoparticle Oligomers from Colloidal Lithography. ACS Photonics, 2014, 1, 1074-1081.	6.6	77
15	Ultrafast Spinning of Gold Nanoparticles in Water Using Circularly Polarized Light. Nano Letters, 2013, 13, 3129-3134.	9.1	129
16	Complete Light Annihilation in an Ultrathin Layer of Gold Nanoparticles. Nano Letters, 2013, 13, 3053-3058.	9.1	24
17	Plasmonic nanoantennas for SERS, directional light, sensing and strong coupling. , 2013, , .		0
18	Hot electron cascades in the scanning tunneling microscope. Physical Review B, 2013, 87, .	3.2	23

#	ARTICLE	IF	CITATIONS
19	Approaching the strong coupling limit in single plasmonic nanorods interacting with J-aggregates. Scientific Reports, 2013, 3, 3074.	3.3	210
20	Simulating light scattering from supported plasmonic nanowires. Optics Express, 2012, 20, 10816.	3.4	25
21	Directional Scattering and Hydrogen Sensing by Bimetallic Pd@Au Nanoantennas. Nano Letters, 2012, 12, 2464-2469.	9.1	150
22	Diffraction from Arrays of Plasmonic Nanoparticles with Short-Range Lateral Order. ACS Nano, 2012, 6, 9455-9465.	14.6	14
23	Electromagnetic Green's function for layered systems: Applications to nanohole interactions in thin metal films. Physical Review B, 2011, 83, .	3.2	31
24	Plasmon Hybridization Reveals the Interaction between Individual Colloidal Gold Nanoparticles Confined in an Optical Potential Well. Nano Letters, 2011, 11, 4505-4508.	9.1	46
25	A bimetallic nanoantenna for directional colour routing. Nature Communications, 2011, 2, 481.	12.8	302
26	Mode-specific directional emission from hybridized particle-on-a-film plasmons. Optics Express, 2011, 19, 12856.	3.4	14
27	Unidirectional Broadband Light Emission from Supported Plasmonic Nanowires. Nano Letters, 2011, 11, 706-711.	9.1	205
28	Optical Forces in Plasmonic Nanoparticle Dimers. Journal of Physical Chemistry C, 2010, 114, 7472-7479.	3.1	74
29	Electron-Plasmon and Electron-Electron Interactions at a Single Atom Contact. Physical Review Letters, 2009, 102, 057401.	7.8	91
30	Green's tensor calculations of plasmon resonances of single holes and hole pairs in thin gold films. New Journal of Physics, 2008, 10, 105004.	2.9	27
31	Top-down extended meshing algorithm and its applications to Green's tensor nano-optics calculations. Physical Review E, 2007, 75, 046702.	2.1	5
32	Field enhancement and molecular response in surface-enhanced Raman scattering and fluorescence spectroscopy. Journal of Raman Spectroscopy, 2005, 36, 510-514.	2.5	79
33	Surface-enhanced Raman scattering and fluorescence near metal nanoparticles. Physical Review B, 2005, 72, .	3.2	274
34	Unified Treatment of Fluorescence and Raman Scattering Processes near Metal Surfaces. Physical Review Letters, 2004, 93, 243002.	7.8	191
35	Two-Electron Photon Emission from Metallic Quantum Wells. Physical Review Letters, 2003, 90, 046803.	7.8	47
36	Light emission from Na/Cu(111) induced by a scanning tunneling microscope. Physical Review B, 2002, 66, .	3.2	13

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37	Theory of a magnetic microscope with nanometer resolution. <i>Physical Review B</i> , 2001, 64, .	3.2	6
38	Electronic structure of antidot superlattices in commensurate magnetic fields. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 3365-3379.	1.8	2
39	Light scattering from disordered overlayers of metallic nanoparticles. <i>Physical Review B</i> , 2001, 64, .	3.2	11
40	Tip-geometry effects in circularly polarized light emission from a scanning tunneling microscope. <i>Physical Review B</i> , 1999, 59, 5126-5133.	3.2	14
41	Butterfly-like spectra and collective modes of antidot superlattices in magnetic fields. <i>Physical Review B</i> , 1999, 60, 7744-7747.	3.2	11
42	Light emission from a scanning tunneling microscope: Fully retarded calculation. <i>Physical Review B</i> , 1998, 58, 10823-10834.	3.2	97
43	Geometry effects on the van der Waals force in atomic force microscopy. <i>Physical Review B</i> , 1997, 56, 4159-4165.	3.2	36
44	Calculation of the cyclotron resonance line shape in a wigner crystal. <i>Physica Scripta</i> , 1997, T69, 73-78.	2.5	0
45	Theory of inelastic x-ray scattering in layered superconductors. <i>Physical Review B</i> , 1996, 53, 8726-8732.	3.2	5
46	Theory of inelastic x-ray scattering by phonons in ice. <i>Physical Review B</i> , 1996, 54, 2988-2991.	3.2	9
47	Coulomb blockade in two-dimensional electron systems in a strong magnetic field. <i>Physica B: Condensed Matter</i> , 1995, 212, 278-282.	2.7	0
48	Tunneling between two-dimensional electron systems in a strong magnetic field. <i>Physica B: Condensed Matter</i> , 1995, 210, 446-451.	2.7	0
49	Tunneling between two two-dimensional electron systems in a strong magnetic field. <i>Physical Review B</i> , 1994, 50, 4671-4686.	3.2	31
50	Cyclotron resonance line shape in a Wigner crystal. <i>Physical Review B</i> , 1994, 50, 14734-14737.	3.2	2
51	Theory of interface-roughness scattering in resonant tunneling. <i>Physical Review B</i> , 1993, 48, 8938-8947.	3.2	12
52	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
53	Calculation of Resonantly Enhanced Light Emission from a Scanning Tunneling Microscope. , 1993, , 341-352.		5
54	Effects of interface-roughness scattering on resonant tunneling. <i>Physical Review B</i> , 1992, 46, 12865-12868.	3.2	9

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55	Tunneling through a double-barrier structure irradiated by infrared radiation. Physical Review B, 1992, 46, 1451-1462.	3.2	35
56	Inelastic tunneling excitation of tip-induced plasmon modes on noble-metal surfaces. Physical Review Letters, 1991, 67, 3796-3799.	7.8	424
57	Theory for photon emission from a scanning tunneling microscope. European Physical Journal B, 1991, 84, 269-275.	1.5	44
58	Resonant tunneling with a time-dependent voltage. Physical Review B, 1990, 41, 9892-9898.	3.2	56
59	Theory for light emission from a scanning tunneling microscope. Physical Review B, 1990, 42, 9210-9213.	3.2	293