

Krystyna Kolwas

List of Publications by Year in descending order

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48
papers

925
citations

623734
14
h-index

454955
30
g-index

48
all docs

48
docs citations

48
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of the Interband Transitions in Gold and Silver on the Dynamics of Propagating and Localized Surface Plasmons. <i>Nanomaterials</i> , 2020, 10, 1411.	4.1	74
2	Decay Dynamics of Localized Surface Plasmons: Damping of Coherences and Populations of the Oscillatory Plasmon Modes. <i>Plasmonics</i> , 2019, 14, 1629-1637.	3.4	10
3	Sodium dodecyl sulfate microaggregates with diversely developed surfaces: Formation from free microdroplets of colloidal suspension. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	3
4	Application of dynamic light scattering for studying the evolution of micro- and nano-droplets. , 2018, , .		2
5	Modification of Solar Energy Harvesting in Photovoltaic Materials by Plasmonic Nanospheres: New Absorption Bands in Perovskite Composite Film. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4524-4539.	3.1	11
6	Evolution of radius and light scattering properties of single drying microdroplets of colloidal suspension. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 168-175.	2.3	9
7	Analysis of Surface Layer Properties of Evaporating Microdroplet of Aqueous SiO ₂ Nanospheres Suspension with Sodium Dodecyl Sulfate. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017, , 431-432.	0.3	0
8	Optical diagnostics of surfaces of single evaporating liquid microdroplet of solutions and suspensions. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
9	Recent progress in MOCVD growth for thermoelectrically cooled HgCdTe medium wavelength infrared photodetectors. <i>Solid-State Electronics</i> , 2016, 118, 61-65.	1.4	9
10	Dielectric Function for Gold in Plasmonics Applications: Size Dependence of Plasmon Resonance Frequencies and Damping Rates for Nanospheres. <i>Plasmonics</i> , 2016, 11, 941-951.	3.4	205
11	Formation of Highly Ordered Spherical Aggregates from Drying Microdroplets of Colloidal Suspension. <i>Langmuir</i> , 2015, 31, 7860-7868.	3.5	32
12	Surface diagnostics of evaporating droplets of nanosphere suspension: Fano interference and surface pressure. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6881-6888.	2.8	10
13	Damping rates of surface plasmons for particles of size from nano- to micrometers; reduction of the nonradiative decay. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 114, 45-55.	2.3	90
14	Absence of nonlocal resistance in microstructures of PbTe quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 37-47.	1.5	10
15	Interaction of optical Whispering Gallery Modes with the surface layer of evaporating droplet of suspension. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 131, 138-145.	2.3	9
16	Combining weighting and scatterometry: Application to a levitated droplet of suspension. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 126, 99-104.	2.3	23
17	Simple analytic tool for spectral control of dipole plasmon resonance frequency for gold and silver nanoparticles. <i>Photonics Letters of Poland</i> , 2013, 5, .	0.4	1
18	Plasmonic abilities of gold and silver spherical nanoantennas in terms of size dependent multipolar resonance frequencies and plasmon damping rates. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	49

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19	Size characteristics of surface plasmons and their manifestation in scattering properties of metal particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1490-1501.	2.3	95
20	Surface States of Microdroplet of Suspension. Journal of Physical Chemistry C, 2009, 113, 10598-10602.	3.1	10
21	Temperature Dependence of the Evaporation Coefficient of Water in Air and Nitrogen under Atmospheric Pressure: Study in Water Droplets. Journal of Physical Chemistry A, 2008, 112, 5152-5158.	2.5	47
22	Drying of a Microdroplet of Water Suspension of Nanoparticles: from Surface Aggregates to Microcrystal. Journal of Physical Chemistry C, 2008, 112, 16919-16923.	3.1	31
23	Temperature Dependence of Evaporation Coefficient for Water Measured in Droplets in Nitrogen under Atmospheric Pressure. Journals of the Atmospheric Sciences, 2007, 64, 996-1004.	1.7	16
24	The smallest free-electron sphere sustaining multipolar surface plasmon oscillation. Computational Materials Science, 2006, 35, 337-341.	3.0	10
25	Near-field flat-plane images of spherical nanoparticles. Computer Physics Communications, 2005, 165, 191-198.	7.5	0
26	Simultaneous determination of mass and thermal accommodation coefficients from temporal evolution of an evaporating water microdroplet. Journal Physics D: Applied Physics, 2005, 38, 1978-1983.	2.8	20
27	Study of microscopic properties of water fullerene suspensions by means of resonant light scattering analysis. Journal Physics D: Applied Physics, 2004, 37, 2918-2924.	2.8	15
28	Local-field resonance in light scattering by a single water droplet with spherical dielectric inclusions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2320.	1.5	11
29	<title>Investigation of the evolution of charged water droplets in the electrodynamic trap</title>. , 2004, , .		0
30	Dynamic Phase Transition in Amorphous YBaCuO Films under Ar Laser Irradiation. Inorganic Materials, 2003, 39, 836-842.	0.8	27
31	Depolarization of light scattered by a single sodium nanoparticle trapped in an electro-optical trap. Optics Communications, 2002, 211, 171-181.	2.1	8
32	Dynamics of spontaneous growth of light-induced sodium droplets from the vapour phase. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 1651-1671.	1.5	8
33	Trapping of light-induced sodium clusters in a modified quadrupole trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3605-3614.	1.5	3
34	Evolution of size and charge of sodium nanoparticles in an electro-optical trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 5513-5524.	1.5	2
35	Study of the formation and growth of light-induced sodium clusters. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 5567-5578.	1.5	4
36	Dipole and quadrupole plasmon resonances in large sodium clusters observed in scattered light. Journal of Chemical Physics, 1997, 106, 8436-8441.	3.0	13

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37	Large sodium clusters in an electrostatic field. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1997, 40, 271-275.	1.0	4
38	Experimental determination of free-electron plasma damping rate in large sodium clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 543-547.	2.1	8
39	Optical excitation of radius-dependent plasmon resonances in large metal clusters. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 4761-4770.	1.5	16
40	Size dependent index of refraction and absorption of a spherical metal cluster. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1996, 38, 233-240.	1.0	0
41	Time evolution of the light induced condensation of sodium clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 167, 272-276.	2.1	10
42	Size Evolution of the Light Induced Sodium Clusters. Acta Physica Polonica A, 1992, 81, 629-637.	0.5	0
43	Multiple collision rotational energy transfer in Na ₂ . Journal of Chemical Physics, 1990, 93, 7119-7124.	3.0	3
44	Polarization four-wave mixing in the long 3.39 μ m HeNe laser. Optics Communications, 1989, 72, 401-405.	2.1	1
45	Counterpropagating waves in a long 339- μ m He-Ne laser. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 2363.	2.1	3
46	Relaxation in a Na/Na ₂ nozzle expansion. Chemical Physics, 1981, 55, 221-227.	1.9	5
47	The cumulative resonance in atomic ground state induced by modulated light field. Optics Communications, 1978, 25, 387-390.	2.1	0
48	Dressed-atom model for optical pumping with modulated light. Optics Communications, 1976, 17, 149-152.	2.1	5