

# 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	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
2	Size characteristics of surface plasmons and their manifestation in scattering properties of metal particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1490-1501.	2.3	95
3	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
4	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
5	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
6	Temperature Dependence of the Evaporation Coefficient of Water in Air and Nitrogen under Atmospheric Pressure: Study in Water Droplets. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5152-5158.	2.5	47
7	Formation of Highly Ordered Spherical Aggregates from Drying Microdroplets of Colloidal Suspension. <i>Langmuir</i> , 2015, 31, 7860-7868.	3.5	32
8	Drying of a Microdroplet of Water Suspension of Nanoparticles: from Surface Aggregates to Microcrystal. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16919-16923.	3.1	31
9	Dynamic Phase Transition in Amorphous YBaCuO Films under Ar Laser Irradiation. <i>Inorganic Materials</i> , 2003, 39, 836-842.	0.8	27
10	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
11	Simultaneous determination of mass and thermal accommodation coefficients from temporal evolution of an evaporating water microdroplet. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 1978-1983.	2.8	20
12	Optical excitation of radius-dependent plasmon resonances in large metal clusters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 4761-4770.	1.5	16
13	Temperature Dependence of Evaporation Coefficient for Water Measured in Droplets in Nitrogen under Atmospheric Pressure. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 996-1004.	1.7	16
14	Study of microscopic properties of water fullerene suspensions by means of resonant light scattering analysis. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 2918-2924.	2.8	15
15	Dipole and quadrupole plasmon resonances in large sodium clusters observed in scattered light. <i>Journal of Chemical Physics</i> , 1997, 106, 8436-8441.	3.0	13
16	Local-field resonance in light scattering by a single water droplet with spherical dielectric inclusions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 2320.	1.5	11
17	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
18	Time evolution of the light induced condensation of sodium clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 167, 272-276.	2.1	10

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19	The smallest free-electron sphere sustaining multipolar surface plasmon oscillation. <i>Computational Materials Science</i> , 2006, 35, 337-341.	3.0	10
20	Surface States of Microdroplet of Suspension. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10598-10602.	3.1	10
21	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
22	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
23	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
24	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
25	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
26	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
27	Experimental determination of free-electron plasma damping rate in large sodium clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 236, 543-547.	2.1	8
28	Dynamics of spontaneous growth of light-induced sodium droplets from the vapour phase. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 1651-1671.	1.5	8
29	Depolarization of light scattered by a single sodium nanoparticle trapped in an electro-optical trap. <i>Optics Communications</i> , 2002, 211, 171-181.	2.1	8
30	Dressed-atom model for optical pumping with modulated light. <i>Optics Communications</i> , 1976, 17, 149-152.	2.1	5
31	Relaxation in a Na/Na <sub>2</sub> nozzle expansion. <i>Chemical Physics</i> , 1981, 55, 221-227.	1.9	5
32	Study of the formation and growth of light-induced sodium clusters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 5567-5578.	1.5	4
33	Large sodium clusters in an electrostatic field. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 40, 271-275.	1.0	4
34	Counterpropagating waves in a long 339- $\frac{1}{4}$ m He-Ne laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989, 6, 2363.	2.1	3
35	Multiple-collision rotational energy transfer in Na <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1990, 93, 7119-7124.	3.0	3
36	Trapping of light-induced sodium clusters in a modified quadrupole trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 3605-3614.	1.5	3

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37	Optical diagnostics of surfaces of single evaporating liquid microdroplet of solutions and suspensions. Proceedings of SPIE, 2016, , .	0.8	3
38	Sodium dodecyl sulfate microaggregates with diversely developed surfaces: Formation from free microdroplets of colloidal suspension. European Physical Journal Plus, 2019, 134, 1.	2.6	3
39	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
40	Application of dynamic light scattering for studying the evolution of micro- and nano-droplets. , 2018, , .		2
41	Polarization four-wave mixing in the long 3.39 $\mu$ m HeNe laser. Optics Communications, 1989, 72, 401-405.	2.1	1
42	Simple analytic tool for spectral control of dipole plasmon resonance frequency for gold and silver nanoparticles. Photonics Letters of Poland, 2013, 5, .	0.4	1
43	The cumulative resonance in atomic ground state induced by modulated light field. Optics Communications, 1978, 25, 387-390.	2.1	0
44	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
45	<title>Investigation of the evolution of charged water droplets in the electrodynamic trap</title>. , 2004, , .		0
46	Near-field flat-plane images of spherical nanoparticles. Computer Physics Communications, 2005, 165, 191-198.	7.5	0
47	Size Evolution of the Light Induced Sodium Clusters. Acta Physica Polonica A, 1992, 81, 629-637.	0.5	0
48	Analysis of Surface Layer Properties of Evaporating Microdroplet of Aqueous SiO <sub>2</sub> Nanospheres Suspension with Sodium Dodecyl Sulfate. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 431-432.	0.3	0