

# Rosalba Saija

## List of Publications by Year in descending order

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71  
papers

2,739  
citations

201674

27  
h-index

189892

50  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Plasmonics with Quantum Dot-Metal Nanoparticle Molecules: Influence of the Fano Effect on Photon Statistics. <i>Physical Review Letters</i> , 2010, 105, 263601.	7.8	280
2	Nanopolaritons: Vacuum Rabi Splitting with a Single Quantum Dot in the Center of a Dimer Nanoantenna. <i>ACS Nano</i> , 2010, 4, 6369-6376.	14.6	241
3	Brownian Motion of Graphene. <i>ACS Nano</i> , 2010, 4, 7515-7523.	14.6	194
4	Optical tweezers and their applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 218, 131-150.	2.3	150
5	Strongly enhanced light trapping in a two-dimensional silicon nanowire random fractal array. <i>Light: Science and Applications</i> , 2016, 5, e16062-e16062.	16.6	97
6	Multiple Electromagnetic Scattering from a Cluster of Spheres. I. Theory. <i>Aerosol Science and Technology</i> , 1984, 3, 227-235.	3.1	93
7	Optical trapping of nonspherical particles in the T-matrix formalism. <i>Optics Express</i> , 2007, 15, 11984.	3.4	84
8	Plasmon-Enhanced Optical Trapping of Gold Nanoaggregates with Selected Optical Properties. <i>ACS Nano</i> , 2011, 5, 905-913.	14.6	84
9	Radiation Torque and Force on Optically Trapped Linear Nanostructures. <i>Physical Review Letters</i> , 2008, 100, 163903.	7.8	81
10	Ultrastrong Coupling of Plasmons and Excitons in a Nanoshell. <i>ACS Nano</i> , 2014, 8, 11483-11492.	14.6	80
11	Optical trapping calculations for metal nanoparticles Comparison with experimental data for Au and Ag spheres. <i>Optics Express</i> , 2009, 17, 10231.	3.4	77
12	Size-Scaling in Optical Trapping of Silicon Nanowires. <i>Nano Letters</i> , 2011, 11, 4879-4884.	9.1	73
13	Trapping volume control in optical tweezers using cylindrical vector beams. <i>Optics Letters</i> , 2013, 38, 28.	3.3	72
14	Rotational dynamics of optically trapped nanofibers. <i>Optics Express</i> , 2010, 18, 822.	3.4	69
15	Manipulation and Raman Spectroscopy with Optically Trapped Metal Nanoparticles Obtained by Pulsed Laser Ablation in Liquids. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5115-5122.	3.1	65
16	Superior plasmon absorption in iron-doped gold nanoparticles. <i>Nanoscale</i> , 2015, 7, 8782-8792.	5.6	52
17	Optical properties of a sphere in the vicinity of a plane surface. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 1505.	1.5	49
18	Coherent backscattering of Raman light. <i>Nature Photonics</i> , 2017, 11, 170-176.	31.4	44

#	ARTICLE	IF	CITATIONS
19	Optical trapping and optical force positioning of two-dimensional materials. <i>Nanoscale</i> , 2018, 10, 1245-1255.	5.6	44
20	Spin-Momentum Locking in the Near Field of Metal Nanoparticles. <i>ACS Photonics</i> , 2017, 4, 2242-2249.	6.6	40
21	Radiation torque on nonspherical particles in the transition matrix formalism. <i>Optics Express</i> , 2006, 14, 9508.	3.4	39
22	Beyond Mie Theory: The Transition Matrix Approach in Interstellar Dust Modeling. <i>Astrophysical Journal</i> , 2001, 559, 993-1004.	4.5	37
23	Optical trapping of carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2347-2351.	2.7	36
24	Subdiffraction Light Concentration by J-Aggregate Nanostructures. <i>ACS Photonics</i> , 2015, 2, 971-979.	6.6	35
25	Optical Properties of Composite Interstellar Grains: A Morphological Analysis. <i>Astrophysical Journal</i> , 2004, 615, 286-299.	4.5	32
26	Radiation pressure cross-sections of fluffy interstellar grains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 341, 1239-1245.	4.4	28
27	Stratified dust grains in the interstellar medium - I. An accurate computational method for calculating their optical properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 384, 591-598.	4.4	27
28	Fano-Doppler Laser Cooling of Hybrid Nanostructures. <i>ACS Nano</i> , 2011, 5, 7354-7361.	14.6	27
29	ZnO nanostructures produced by laser ablation in water: Optical and structural properties. <i>Applied Surface Science</i> , 2013, 272, 30-35.	6.1	27
30	Efficient light-scattering calculations for aggregates of large spheres. <i>Applied Optics</i> , 2003, 42, 2785.	2.1	26
31	Stratified dust grains in the interstellar medium - II. Time-dependent interstellar extinction. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 408, 535-541.	4.4	26
32	Transverse components of the radiation force on nonspherical particles in the -matrix formalism. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 94, 163-179.	2.3	24
33	Porous interstellar grains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 322, 749-756.	4.4	23
34	Optical trapping of silver nanoplatelets. <i>Optics Express</i> , 2015, 23, 8720.	3.4	23
35	Optical Trapping of Plasmonic Mesocapsules: Enhanced Optical Forces and SERS. <i>Journal of Physical Chemistry C</i> , 2017, 121, 691-700.	3.1	21
36	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. <i>Nature Communications</i> , 2020, 11, 5991.	12.8	21

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37	Optical properties of a dispersion of anisotropic particles with non-randomly distributed orientations. The case of atmospheric ice crystals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 70, 237-251.	2.3	18
38	Spectral shift between the near-field and far-field optoplasmonic response in gold nanospheres, nanoshells, homo- and hetero-dimers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 195, 97-106.	2.3	18
39	Multiple Electromagnetic Scattering from a Cluster of Spheres. II. Symmetrization. <i>Aerosol Science and Technology</i> , 1984, 3, 237-243.	3.1	15
40	Reliability of the theoretical description of electromagnetic scattering from nonspherical particles. <i>Journal of Aerosol Science</i> , 1989, 20, 1079-1081.	3.8	15
41	Scaling of optical forces on Au@PEG core-shell nanoparticles. <i>RSC Advances</i> , 2015, 5, 93139-93146.	3.6	15
42	Electrospun Conjugated Polymer/Fullerene Hybrid Fibers: Photoactive Blends, Conductivity through Tunneling-AFM, Light Scattering, and Perspective for Their Use in Bulk-Heterojunction Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3058-3067.	3.1	15
43	Gain-Assisted Optomechanical Position Locking of Metal/Dielectric Nanoshells in Optical Potentials. <i>ACS Photonics</i> , 2020, 7, 1262-1270.	6.6	15
44	Modelling of the optical absorption spectra of PLAL prepared ZnO colloids. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 124, 86-93.	2.3	14
45	Optical Absorption Coefficient of a Dispersion of Clusters Composed of a Large Number of Spheres. <i>Aerosol Science and Technology</i> , 1987, 6, 173-181.	3.1	13
46	Optical scattering by biological aerosols: experimental and computational results on spore simulants. <i>Optics Express</i> , 2006, 14, 6942.	3.4	12
47	Analysis of the phosphorescence of thianthren crystals. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1993, 15, 1521-1532.	0.4	11
48	Effects of aggregation on the electromagnetic resonance scattering of dielectric spherical objects. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1985, 6, 545-558.	0.4	10
49	On the formation and survival of complex prebiotic molecules in interstellar grain aggregates. <i>International Journal of Astrobiology</i> , 2004, 3, 287-293.	1.6	10
50	Ultraviolet Radiation inside Interstellar Grain Aggregates. I. The Density of Radiation. <i>Astrophysical Journal</i> , 2005, 624, 223-231.	4.5	10
51	Optical trapping of nonspherical particles in the T-matrix formalism: erratum. <i>Optics Express</i> , 2007, 15, 14618.	3.4	10
52	On the Optical Properties of Ag@Au Colloidal Alloys Pulsed Laser Ablated in Liquid: Experiments and Theory. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24930-24939.	3.1	10
53	Optical tweezers: a non-destructive tool for soft and biomaterial investigations. <i>Rendiconti Lincei</i> , 2015, 26, 203-218.	2.2	9
54	Superposition through phases of the far fields scattered by the spheres of an aggregate. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 129, 69-78.	2.3	7

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55	Optical properties of interstellar grain aggregates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 89, 43-51.	2.3	6
56	Ultraviolet Radiation inside Interstellar Grain Aggregates. II. Field Depolarization. <i>Astrophysical Journal</i> , 2005, 633, 953-966.	4.5	6
57	Radiation torque on nonspherical particles in the transition matrix formalism: erratum. <i>Optics Express</i> , 2007, 15, 6946.	3.4	6
58	On the rotational stability of nonspherical particles driven by the radiation torque. <i>Optics Express</i> , 2007, 15, 8960.	3.4	6
59	Biomaterial Amorphous Lasers through Light-Scattering Surfaces Assembled by Electrospun Fiber Templates. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700224.	8.7	6
60	Resonant Coupling and Gain Singularities in Metal/Dielectric Multishells: Quasi-Static Versus T-Matrix Calculations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29291-29297.	3.1	6
61	Improved backscattering detection in photonic force microscopy near dielectric surfaces with cylindrical vector beams. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 258, 107381.	2.3	6
62	ULTRAVIOLET RADIATION INSIDE INTERSTELLAR GRAIN AGGREGATES. III. FLUFFY GRAINS. <i>Astrophysical Journal</i> , 2009, 701, 1426-1435.	4.5	5
63	Near-Field Optical Detection of Plasmon Resonance from Gold Nanoparticles: Theoretical and Experimental Evidence. <i>Plasmonics</i> , 2015, 10, 63-70.	3.4	5
64	SERS sensing of perampanel with nanostructured arrays of gold particles produced by pulsed laser ablation in water. <i>Medical Devices &amp; Sensors</i> , 2018, 1, e10003.	2.7	5
65	Optical tweezers in a dusty universe. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
66	Stratified dust grains in the interstellar medium. III. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1898-1906.	2.3	4
67	Ferdinando Borghese (26 May 1940–19 January 2017). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 201, 226-228.	2.3	4
68	T-matrix calculations of spin-dependent optical forces in optically trapped nanowires. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	4
69	Plasmonic Absorption Enhancement of a Single Quantum Dot. <i>Plasmonics</i> , 2015, 10, 955-962.	3.4	3
70	Effective dielectric function of a metal-dielectric composite with nonrandomly distributed particles. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1991, 13, 1159-1172.	0.4	2
71	Light-matter Interaction Under Intense Field Conditions: Nonlinear Optical Properties of Metallic-dielectric Nanostructures. <i>Current Nanomaterials</i> , 2019, 4, 51-62.	0.4	2