

# Maxim Sukharev

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,145  
citations

361045

20  
h-index

395343

33  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1063  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Coupling between Molecular Excited States and Surface Plasmon Modes of a Slit Array in a Thin Metal Film. <i>Physical Review Letters</i> , 2012, 109, 073002.	2.9	123
2	Phase and Polarization Control as a Route to Plasmonic Nanodevices. <i>Nano Letters</i> , 2006, 6, 715-719.	4.5	113
3	Optics of exciton-plasmon nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 443003.	0.7	73
4	Numerical studies of the interaction of an atomic sample with the electromagnetic field in two dimensions. <i>Physical Review A</i> , 2011, 84, .	1.0	68
5	Laser Field Alignment of Organic Molecules on Semiconductor Surfaces: Toward Ultrafast Molecular Switches. <i>Physical Review Letters</i> , 2008, 101, 208303.	2.9	61
6	Nanoparticle Spectroscopy: Birefringence in Two-Dimensional Arrays of L-Shaped Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3252-3260.	1.5	52
7	Transport and optical response of molecular junctions driven by surface plasmon polaritons. <i>Physical Review B</i> , 2010, 81, .	1.1	52
8	Coherent control of light propagation via nanoparticle arrays. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, S283-S298.	0.6	43
9	Ultrafast Energy Transfer between Molecular Assemblies and Surface Plasmons in the Strong Coupling Regime. <i>ACS Nano</i> , 2014, 8, 807-817.	7.3	43
10	Light-induced current in molecular junctions: Local field and non-Markov effects. <i>Physical Review B</i> , 2011, 83, .	1.1	40
11	Optical properties of metal nanoparticles with no center of inversion symmetry: Observation of volume plasmons. <i>Physical Review B</i> , 2007, 76, .	1.1	27
12	Mixed quantum-classical electrodynamics: Understanding spontaneous decay and zero-point energy. <i>Physical Review A</i> , 2018, 97, .	1.0	27
13	Second Harmonic Generation from a Single Plasmonic Nanorod Strongly Coupled to a WSe <sub>2</sub> Monolayer. <i>Nano Letters</i> , 2021, 21, 1599-1605.	4.5	27
14	Coherent control approaches to light guidance in the nanoscale. <i>Journal of Chemical Physics</i> , 2006, 124, 144707.	1.2	25
15	Ehrenfest+R dynamics. I. A mixed quantum-classical electrodynamics simulation of spontaneous emission. <i>Journal of Chemical Physics</i> , 2019, 150, 044102.	1.2	24
16	Stimulated Raman adiabatic passage as a route to achieving optical control in plasmonics. <i>Physical Review A</i> , 2012, 86, .	1.0	23
17	Numerical Calculations of Radiative and Non-Radiative Relaxation of Molecules Near Metal Particles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10545-10551.	1.5	22
18	Optical Properties of Metal Tips for Tip-Enhanced Spectroscopies. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7508-7513.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Dipole-Induced Electromagnetic Transparency. <i>Physical Review Letters</i> , 2014, 113, 163603.	2.9	21
20	Molecular nanoplasmonics: Self-consistent electrostatics in current-carrying junctions. <i>Physical Review B</i> , 2012, 86, .	1.1	20
21	Optimal design of nanoplasmonic materials using genetic algorithms as a multiparameter optimization tool. <i>Journal of Chemical Physics</i> , 2008, 129, 064706.	1.2	17
22	Plasmon enhanced second harmonic generation by periodic arrays of triangular nanoholes coupled to quantum emitters. <i>Journal of Chemical Physics</i> , 2020, 152, 094706.	1.2	17
23	Theoretical analysis of dipole-induced electromagnetic transparency. <i>Physical Review A</i> , 2015, 91, .	1.0	15
24	Effects of exciton-plasmon strong coupling on third harmonic generation by two-dimensional WS <sub>2</sub> at periodic plasmonic interfaces. <i>Journal of Chemical Physics</i> , 2018, 148, .	1.2	14
25	Light trapping and guidance in plasmonic nanocrystals. <i>Journal of Chemical Physics</i> , 2007, 126, 204702.	1.2	12
26	Non-Hermitian wave packet approximation of Bloch optical equations. <i>Journal of Chemical Physics</i> , 2013, 138, 024108.	1.2	12
27	Ehrenfest+R dynamics. II. A semiclassical QED framework for Raman scattering. <i>Journal of Chemical Physics</i> , 2019, 150, 044103.	1.2	12
28	Wavelength and Polarization Dependence of Second-Harmonic Responses from Gold Nanocrescent Arrays. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20424-20435.	1.5	12
29	Surface plasmon polaritons in periodic arrays of V-shaped grooves strongly coupled to quantum emitters. <i>Physical Review B</i> , 2015, 92, .	1.1	10
30	Optical Response of Hybrid Plasmon-Exciton Nanomaterials in the Presence of Overlapping Resonances. <i>ACS Photonics</i> , 2015, 2, 935-941.	3.2	10
31	Molecular plasmonics: The role of rovibrational molecular states in exciton-plasmon materials under strong-coupling conditions. <i>Physical Review B</i> , 2017, 95, .	1.1	10
32	Molecular Plasmonics: Strong Coupling at the Low Molecular Density Limit. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14819-14825.	1.5	10
33	Plasmonic opals: observation of a collective molecular exciton mode beyond the strong coupling. <i>Scientific Reports</i> , 2017, 7, 4107.	1.6	10
34	Control of optical properties of hybrid materials with chirped femtosecond laser pulses under strong coupling conditions. <i>Journal of Chemical Physics</i> , 2014, 141, 084712.	1.2	9
35	Harmonic Generation by Metal Nanostructures Optically Coupled to Two-Dimensional Transition-Metal Dichalcogenide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6898-6904.	1.5	9
36	Plasmon transmission through excitonic subwavelength gaps. <i>Journal of Chemical Physics</i> , 2016, 144, 144703.	1.2	8

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37	A Necessary Trade-off for Semiclassical Electrodynamics: Accurate Short-Range Coulomb Interactions versus the Enforcement of Causality?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5955-5961.	2.1	8
38	Energy Transfer and Interference by Collective Electromagnetic Coupling. <i>Nano Letters</i> , 2019, 19, 5790-5795.	4.5	8
39	Second harmonic generation by strongly coupled exciton-plasmons: The role of polaritonic states in nonlinear dynamics. <i>Journal of Chemical Physics</i> , 2021, 154, 244701.	1.2	7
40	Second-harmonic generation in nonlinear plasmonic lattices enhanced by quantum emitter gain medium. <i>Journal of Chemical Physics</i> , 2021, 154, 084703.	1.2	5
41	Strong coupling between an inverse bowtie Nano-Antenna and a J-aggregate. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 438-445.	5.0	5
42	Coherent phase control of internal conversion in pyrazine. <i>Journal of Chemical Physics</i> , 2015, 142, 144311.	1.2	4
43	Non-Hermitian wave packet approximation for coupled two-level systems in weak and intense fields. <i>Journal of Chemical Physics</i> , 2016, 144, 154109.	1.2	4
44	Coupling, lifetimes, and "strong coupling" maps for single molecules at plasmonic interfaces. <i>Journal of Chemical Physics</i> , 2022, 156, 154303.	1.2	4
45	Photon echo in exciton-plasmon nanomaterials: A time-dependent signature of strong coupling. <i>Journal of Chemical Physics</i> , 2017, 146, 084704.	1.2	3
46	Collective effects in subwavelength hybrid systems: a numerical analysis. <i>Molecular Physics</i> , 2015, 113, 392-396.	0.8	2
47	Modeling optical coupling of plasmons and inhomogeneously broadened emitters. <i>Journal of Chemical Physics</i> , 2019, 150, 124112.	1.2	1
48	Second Harmonic Generation from a Single Plasmonic Nanorod Strongly Coupled to a WSe <sub>2</sub> Monolayer. , 2021, , .		1
49	High Yield Synthesis and Quadratic Nonlinearities of Gold Nanoprisms in Solution: The Role of Corner Sharpness. <i>Israel Journal of Chemistry</i> , 2023, 63, .	1.0	1
50	Linear Optical Properties of Periodic Hybrid Materials at Oblique Incidence: A Numerical Approach. , 2015, , 149-164.		0
51	Plasmonics. , 2012, , 279-299.		0