

# Alexander Moroz

## List of Publications by Year in descending order

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86  
papers

2,641  
citations

159525

30  
h-index

189801

50  
g-index

87  
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87  
docs citations

87  
times ranked

2649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Is There a Proper Figure of Merit for a Plasmonic Structure Involved in Metal-Enhanced Fluorescence?. <i>Plasmonics</i> , 2022, 17, 1091-1094.	1.8	1
2	Remarkable Predictive Power of the Modified Long Wavelength Approximation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1963-1971.	1.5	10
3	Extraordinary Fluorescence Enhancement in Metal-Dielectric Core-Shell Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6425-6430.	2.1	12
4	Harnessing superdirectivity in dielectric spherical multilayer antennas. <i>Physical Review B</i> , 2021, 104, .	1.1	6
5	Excitation of a homogeneous dielectric sphere by a point electric dipole. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012043.	0.3	0
6	Metal-enhanced fluorescence: More than we thought. , 2021, , .		0
7	Synthesizing multi-dimensional excitation dynamics and localization transition in one-dimensional lattices. <i>Nature Photonics</i> , 2020, 14, 76-81.	15.6	35
8	Critical Role of Shell in Enhanced Fluorescence of Metal-Dielectric Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13365-13373.	1.5	43
9	Constraint polynomial approach: an alternative to the functional Bethe Ansatz method?. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	5
10	Intriguing branching of the maximum position of the absorption cross section in Mie theory explained. <i>Optics Letters</i> , 2020, 45, 4056.	1.7	5
11	STRATIFY: a comprehensive and versatile MATLAB code for a multilayered sphere. <i>OSA Continuum</i> , 2020, 3, 2290.	1.8	24
12	On beautiful analytic structure of the S-matrix. <i>New Journal of Physics</i> , 2019, 21, 103035.	1.2	6
13	On the Heisenberg condition in the presence of redundant poles of the S-matrix. <i>Europhysics Letters</i> , 2019, 126, 30003.	0.7	4
14	Electromagnetic energy in multilayered spherical particles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1591.	0.8	15
15	A unified treatment of polynomial solutions and constraint polynomials of the Rabi models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 295201.	0.7	2
16	Experimental realization of high dimensional synthetic lattices in planar photonic structures. , 2018, , .		0
17	Comment on "New analytic solution of Schrödinger's equation" by Eleuch H. et al.. <i>Europhysics Letters</i> , 2017, 117, 40001.	0.7	3
18	Experimental realization of exact mapping from multi-dimensional to planar micro-photonic lattices. , 2017, , .		0

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19	Optical simulation of multi-dimensional nonlinear defect states with planar waveguide arrays. , 2016, , .		0
20	Generalized Rabi models: Diagonalization in the spin subspace and differential operators of Dunkl type. Europhysics Letters, 2016, 113, 50004.	0.7	10
21	Optical Simulation of Nonlinear Twisted-Ring Defect States with Planar Waveguide Arrays. , 2016, , .		0
22	On uniqueness of Heineâ€™Stieltjes polynomials for second order finite-difference equations. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 415201.	0.7	1
23	Quantum models with spectrum generated by the flows of polynomial zeros. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 495204.	0.7	5
24	Haydockâ€™s recursive solution of self-adjoint problems. Discrete spectrum. Annals of Physics, 2014, 351, 960-974.	1.0	8
25	A hidden analytic structure of the Rabi model. Annals of Physics, 2014, 340, 252-266.	1.0	28
26	On solvability and integrability of the Rabi model. Annals of Physics, 2013, 338, 319-340.	1.0	30
27	On the spectrum of a class of quantum models. Europhysics Letters, 2012, 100, 60010.	0.7	33
28	Distance Dependence of Single-Fluorophore Quenching by Gold Nanoparticles Studied on DNA Origami. ACS Nano, 2012, 6, 3189-3195.	7.3	274
29	Superconvergent Representation of the Gerstenâ€™Nitzan and Fordâ€™Weber Nonradiative Rates. Journal of Physical Chemistry C, 2011, 115, 19546-19556.	1.5	15
30	Electron mean-free path in metal-coated nanowires. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1130.	0.9	15
31	Non-radiative decay of a dipole emitter close to a metallic nanoparticle: Importance of higher-order multipole contributions. Optics Communications, 2010, 283, 2277-2287.	1.0	45
32	Localized Resonances of Composite Particles. Journal of Physical Chemistry C, 2009, 113, 21604-21610.	1.5	12
33	Depolarization field of spheroidal particles. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 517.	0.9	150
34	Comparing photonic band structure calculation methods for diamond and pyrochlore crystals. Optics Express, 2009, 17, 6952.	1.7	9
35	Optical cavity modes in gold shell colloids. Journal of Applied Physics, 2008, 103, .	1.1	44
36	High trapping forces for high-refractive index particles trapped in dynamic arrays of counterpropagating optical tweezers. Applied Optics, 2008, 47, 3196.	2.1	53

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37	Optical Properties of Spherical and Oblate Spheroidal Gold Shell Colloids. Journal of Physical Chemistry C, 2008, 112, 4146-4150.	1.5	39
38	Electron Mean Free Path in a Spherical Shell Geometry. Journal of Physical Chemistry C, 2008, 112, 10641-10652.	1.5	84
39	Quasi-periodic Green's functions of the Helmholtz and Laplace equations. Journal of Physics A, 2006, 39, 11247-11282.	1.6	36
40	Spectroscopic properties of a two-level atom interacting with a complex spherical nanoshell. Chemical Physics, 2005, 317, 1-15.	0.9	35
41	A recursive transfer-matrix solution for a dipole radiating inside and outside a stratified sphere. Annals of Physics, 2005, 315, 352-418.	1.0	96
42	Improvement of Mishchenko's T-matrix code for absorbing particles. Applied Optics, 2005, 44, 3604.	2.1	29
43	Negative refractive index metamaterials from inherently non-magnetic materials for deep infrared to terahertz frequency ranges. Journal of Physics Condensed Matter, 2005, 17, 3717-3734.	0.7	173
44	Reflectivity of metallodielectric photonic glasses. Physical Review B, 2004, 69, .	1.1	10
45	Three-dimensional silica-gold core-shell photonic crystal: linear reflection and ultrafast nonlinear optical properties. , 2004, , .		4
46	Band structure of absorptive two-dimensional photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1334.	0.9	34
47	Silver-coated silicon pillar photonic crystals: Enhancement of a photonic band gap. Applied Physics Letters, 2003, 82, 508-510.	1.5	48
48	Photonic crystals with small metal inclusions. , 2003, 5036, 407.		0
49	Photonic crystals of core-shell colloidal particles. Applied Physics Letters, 2002, 80, 49-51.	1.5	140
50	On the Computation of the Free-Space Doubly-Periodic Green's Function of the Three-Dimensional Helmholtz Equation. Journal of Electromagnetic Waves and Applications, 2002, 16, 457-465.	1.0	10
51	Metallo-dielectric diamond and zinc-blende photonic crystals. Physical Review B, 2002, 66, .	1.1	126
52	Design and optimization of 2D photonic crystal waveguides based on silicon. Optical and Quantum Electronics, 2002, 34, 145-159.	1.5	33
53	Exponentially convergent lattice sums. Optics Letters, 2001, 26, 1119.	1.7	39
54	Absorption in periodic layered structures. Synthetic Metals, 2001, 116, 481-484.	2.1	7

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55	Modified spontaneous emission in erbium-doped SiO <sub>2</sub> spherical colloids. Applied Physics Letters, 2001, 79, 3585-3587.	1.5	32
56	Photonic Crystals at Near-Infrared and Optical Wavelengths. Materials Research Society Symposia Proceedings, 2001, 694, 1.	0.1	0
57	Photonic Crystals at Near-Infrared and Optical Wavelengths. Materials Research Society Symposia Proceedings, 2001, 707, 751.	0.1	0
58	Photonic Crystals at Near-Infrared and Optical Wavelengths. Materials Research Society Symposia Proceedings, 2001, 708, 751.	0.1	1
59	Local optical density of states in SiO <sub>2</sub> spherical microcavities: Theory and experiment. Physical Review A, 2001, 64, .	1.0	58
60	Towards Complete Photonic Band Gap Structures Below Infrared Wavelengths. , 2001, , 373-382.		0
61	Photonic crystals of coated metallic spheres. Europhysics Letters, 2000, 50, 466-472.	0.7	76
62	Band structure of absorptive photonic crystals. Journal of Physics A, 2000, 33, 6223-6252.	1.6	58
63	Towards two-dimensional complete photonic bandgap structures below infrared wavelengths. Journal of Optics, 2000, 2, 395-399.	1.5	43
64	Minima and maxima of the local density of states for one-dimensional periodic systems. Europhysics Letters, 1999, 46, 419-424.	0.7	32
65	Photonic band gaps of three-dimensional face-centred cubic lattices. Journal of Physics Condensed Matter, 1999, 11, 997-1008.	0.7	93
66	A simple formula for the L-gap width of a face-centred cubic photonic crystal. Journal of Optics, 1999, 1, 471-475.	1.5	1
67	Resonance-induced effects in photonic crystals. Journal of Physics Condensed Matter, 1999, 11, 2503-2512.	0.7	15
68	Three-Dimensional Complete Photonic-Band-gap Structures in the Visible. Physical Review Letters, 1999, 83, 5274-5277.	2.9	214
69	Comments on "Differential cross-section for Aharonov-Bohm effect with nonstandard boundary conditions". Europhysics Letters, 1999, 47, 273-274.	0.7	0
70	On-shell T-matrices in multiple scattering. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 235, 195-199.	0.9	9
71	Aspect ratio analysis for ground states of bosons in anisotropic traps. European Physical Journal D, 1996, 46, 549-550.	0.4	1
72	ON INDICES OF THE DIRAC OPERATOR IN A NON-FREDHOLM CASE. Modern Physics Letters A, 1996, 11, 979-986.	0.5	1

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73	Single-particle density of states, bound states, phase-shift flip, and a resonance in the presence of an Aharonov-Bohm potential. <i>Physical Review A</i> , 1996, 53, 669-694.	1.0	27
74	UPPER AND LOWER BOUNDS ON THE PARTITION FUNCTION OF THE HOFSTADTER MODEL. <i>Modern Physics Letters B</i> , 1996, 10, 409-416.	1.0	0
75	Critical exponent of the localization length for the symplectic case. <i>Journal of Physics A</i> , 1996, 29, 289-294.	1.6	1
76	Aspect ratio analysis for ground states of bosons in anisotropic traps. <i>Journal of Research of the National Institute of Standards and Technology</i> , 1996, 101, 567.	0.4	2
77	The Aharonov-Casher theorem and the axial anomaly in the Aharonov-Bohm potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 358, 305-311.	1.5	10
78	Density-of-states calculations and multiple-scattering theory for photons. <i>Physical Review B</i> , 1995, 51, 2068-2081.	1.1	68
79	Comment on "Relation between Persistent Currents and the Scattering Matrix". <i>Physical Review Letters</i> , 1995, 74, 828-828.	2.9	8
80	THE SINGLE-PARTICLE DENSITY OF STATES AND THE RESONANCE IN THE AHARONOV-BOHM POTENTIAL. <i>Modern Physics Letters B</i> , 1995, 09, 1407-1417.	1.0	2
81	Inward and outward integral equations and the KKR method for photons. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 171-182.	0.7	20
82	Strong asymptotic conditions (Short guide to using summability methods). <i>European Physical Journal D</i> , 1992, 42, 753-763.	0.4	3
83	ANGULAR MOMENTA IN A PLANAR FIELD THEORY. <i>Modern Physics Letters A</i> , 1991, 06, 137-141.	0.5	0
84	Novel summability methods generalizing the Borel method. <i>European Physical Journal D</i> , 1990, 40, 705-726.	0.4	9
85	Summability method for a Horn-Shaped region. <i>Communications in Mathematical Physics</i> , 1990, 133, 369-382.	1.0	9
86	Analytic continuation by means of the methods of divergent series. <i>Czechoslovak Mathematical Journal</i> , 1990, 40, 200-212.	0.3	2