

# Michael I Tribelsky

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

1,283  
citations

20  
h-index

35  
g-index

69  
ext. papers

1,416  
ext. citations

3.2  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
60	Anomalous light scattering by small particles. <i>Physical Review Letters</i> , <b>2006</b> , 97, 263902	7.4	193
59	Domain boundaries in convection patterns. <i>Physical Review A</i> , <b>1990</b> , 42, 7244-7263	2.6	142
58	Light scattering by a finite obstacle and fano resonances. <i>Physical Review Letters</i> , <b>2008</b> , 100, 043903	7.4	98
57	New scenario for transition to turbulence?. <i>Physical Review Letters</i> , <b>1996</b> , 76, 1631-1634	7.4	65
56	Giant in-particle field concentration and Fano resonances at light scattering by high-refractive-index particles. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	62
55	Small Dielectric Spheres with High Refractive Index as New Multifunctional Elements for Optical Devices. <i>Scientific Reports</i> , <b>2015</b> , 5, 12288	4.9	61
54	Soft-mode turbulence in electrohydrodynamic convection of a homeotropically aligned nematic layer. <i>Physical Review E</i> , <b>1997</b> , 56, R6256-R6259	2.4	46
53	Bifurcations in distributed kinetic systems with aperiodic instability. <i>Physica D: Nonlinear Phenomena</i> , <b>1984</b> , 14, 67-87	3.3	46
52	Peculiarities of light scattering by nanoparticles and nanowires near plasmon resonance frequencies in weakly dissipating materials. <i>Journal of Optics</i> , <b>2007</b> , 9, S294-S300		40
51	Paradoxes in laser heating of plasmonic nanoparticles. <i>New Journal of Physics</i> , <b>2012</b> , 14, 093022	2.9	39
50	Anomalous light absorption by small particles. <i>Europhysics Letters</i> , <b>2011</b> , 94, 14004	1.6	39
49	Giant field enhancement in high-index dielectric subwavelength particles. <i>Scientific Reports</i> , <b>2017</b> , 7, 731	4.9	35
48	Unconventional Fano resonances in light scattering by small particles. <i>Europhysics Letters</i> , <b>2012</b> , 97, 440056		34
47	Extraordinary scattering diagram for nanoparticles near plasmon resonance frequencies. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 259-264	2.6	32
46	Beyond the hybridization effects in plasmonic nanoclusters: diffraction-induced enhanced absorption and scattering. <i>Small</i> , <b>2014</b> , 10, 576-83	11	29
45	Short-wavelength instability in systems with slow long-wavelength dynamics. <i>Physical Review E</i> , <b>1996</b> , 54, 4973-4981	2.4	26
44	Short-wavelength instability and transition to chaos in distributed systems with additional symmetry. <i>Physics-Uspeski</i> , <b>1997</b> , 40, 159-180	2.8	24

43	Extensive chaos in the nikolaevskii model. <i>Physical Review E</i> , <b>2000</b> , 62, R17-20	2.4	24
42	Light scattering at nanoparticles close to plasmon resonance frequencies. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , <b>2006</b> , 73, 371	0.9	23
41	Dynamical Aspects of Spatiotemporal Chaos at the Onset of Electroconvection in Homeotropic Nematics. <i>Journal of the Physical Society of Japan</i> , <b>1997</b> , 66, 3329-3332	1.5	22
40	Ultimate Absorption in Light Scattering by a Finite Obstacle. <i>Physical Review Letters</i> , <b>2018</b> , 120, 033902	7.4	19
39	Laser Pulse Heating of Spherical Metal Particles. <i>Physical Review X</i> , <b>2011</b> , 1,	9.1	18
38	Fano Resonances: A Discovery that Was Not Made 100 Years Ago. <i>Optics and Photonics News</i> , <b>2008</b> , 19, 48	1.9	15
37	General exact solution to the problem of the probability density for sums of random variables. <i>Physical Review Letters</i> , <b>2002</b> , 89, 070201	7.4	13
36	Wave number selection in convection and related problems. <i>Physical Review E</i> , <b>1994</b> , 50, 1194-1197	2.4	13
35	Patterns in dissipative systems with weakly broken continuous symmetry. <i>Physical Review E</i> , <b>2008</b> , 77, 035202	2.4	12
34	Theory, Observation, and Ultrafast Response of the Hybrid Anapole Regime in Light Scattering. <i>Laser and Photonics Reviews</i> , 2100114	8.3	12
33	Peculiarities of light scattering by nanoparticles and nanowires near plasmon resonance frequencies. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 59, 234-239	0.3	11
32	Directional Fano resonances in light scattering by a high refractive index dielectric sphere. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	10
31	Emission of waves by moving kinks in a spatially modulated sine-Gordon system. <i>Physical Review B</i> , <b>1990</b> , 41, 11271-11281	3.3	9
30	Anapole: Its birth, life, and death. <i>Optics Express</i> , <b>2019</b> , 27, 23894-23904	3.3	9
29	Thermochemical instability of transparent media induced by an absorbing inclusion. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1983</b> , 31, 85-88		7
28	Phenomenological approach to light scattering by small particles and directional Fano resonances. <i>Europhysics Letters</i> , <b>2013</b> , 104, 34002	1.6	6
27	Statistical properties of chaos at onset of electroconvection in a homeotropically aligned nematic layer. <i>Physical Review E</i> , <b>1999</b> , 59, 3729-3732	2.4	5
26	Phase-slip dynamics in one-dimensional distributed systems. <i>Physical Review A</i> , <b>1992</b> , 45, 4175-4177	2.6	5

25	Laser heating of dielectric particles for medical and biological applications. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2781-8	3.5	5
24	Dynamics of destructive Fano resonances. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	4
23	Short-Wave Instability in Extended Systems with Additional Symmetry. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>1997</b> , 07, 997-1006	2	4
22	Universal spatiotemporal scaling in the dynamics of one-dimensional pattern selection. <i>Physical Review E</i> , <b>1995</b> , 51, 5132-5135	2.4	3
21	Link of microscopic and macroscopic fields in nematodynamics. <i>Physical Review E</i> , <b>2011</b> , 83, 022701	2.4	2
20	Dynamics of Eckhaus Modes in One-Dimensional Electroconvection Patterns in Nematics. <i>Molecular Crystals and Liquid Crystals</i> , <b>1997</b> , 302, 357-362		2
19	Instabilities in the array of phase-slip centers in superconducting filaments. <i>Journal of Low Temperature Physics</i> , <b>1989</b> , 77, 209-234	1.3	2
18	Shape of the liquid-phase surface in melting of highly absorbing media by laser radiation. <i>Soviet Journal of Quantum Electronics</i> , <b>1978</b> , 8, 462-466		2
17	New complex approach to market price predictions <b>2004</b> , 131-136		2
16	Generic singularities of scattering coefficients and a paradox of resonant wave scattering. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	1
15	FOREX Trades: Can the Takens Algorithm Help to Obtain Steady Profit at Investment Reallocations?. <i>JETP Letters</i> , <b>2015</b> , 102, 841-844	1.2	1
14	Tuned Mullins-Sekerka instability: exact results. <i>Physical Review E</i> , <b>2014</b> , 90, 042403	2.4	1
13	Strength and working parameters of covers with rubber-cord casings of different designs. <i>Russian Engineering Research</i> , <b>2008</b> , 28, 632-635	1	1
12	Stress-strain state and thermal state of rubber-cord casings of highly elastic couplings. <i>Russian Engineering Research</i> , <b>2008</b> , 28, 1159-1164	1	1
11	New type of turbulence, or how symmetry results in chaos. <i>Macromolecular Symposia</i> , <b>2000</b> , 160, 225-232.8	2.8	1
10	Hydrodynamic waves in regions with smooth loss of convexity of isentropes: general phenomenological theory. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4037-40	7.4	1
9	Universal Defect Dynamics in Two-Dimensional Convective Roll Patterns. <i>Journal of the Physical Society of Japan</i> , <b>1996</b> , 65, 3419-3422	1.5	1
8	Two tractable models of dynamic light scattering and their application to Fano resonances. <i>Nanophotonics</i> , <b>2021</b> ,	6.3	1

- 7 Light Scattering by Small Particles and Their Light Heating: New Aspects of the Old Problems. *Springer Series in Materials Science*, **2014**, 125-146 0.9 1
- 6 Assessing the Change in Properties of Rubbers Stored for 40 Years. *International Polymer Science and Technology*, **2012**, 39, 1-2
- 5 Interface in nematics. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1990**, 12, 1325-1333
- 4 On strong transitions between structures of differing symmetry accompanying weakly supercritical convection. *Prikladnaya Matematika I Mekhanika*, **1988**, 52, 59-62
- 3 Interaction of the radiation from a flash tube with the cooling liquid. *Journal of Engineering Physics*, **1975**, 28, 182-186
- 2 Soft-Mode Turbulence in Electrohydrodynamic Convection in Homeotropic System of Nematics **1997**, 126-128
- 1 Instability of Traveling Pulses in Nonlinear Diffusion-Type Problems and Method to Obtain Bottom-Part Spectrum of Schrödinger Equation with Complicated Potential **2021**, 3, 715-727 2.1