

Michael I Tribelsky

List of Publications by Year in Descending Order

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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 | Two tractable models of dynamic light scattering and their application to Fano resonances. <i>Nanophotonics</i> , 2021 , | 6.3 | 1 |
| 59 | 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 | |
| 58 | Generic singularities of scattering coefficients and a paradox of resonant wave scattering. <i>Physical Review A</i> , 2019 , 100, | 2.6 | 1 |
| 57 | Dynamics of destructive Fano resonances. <i>Physical Review A</i> , 2019 , 100, | 2.6 | 4 |
| 56 | Anapole: Its birth, life, and death. <i>Optics Express</i> , 2019 , 27, 23894-23904 | 3.3 | 9 |
| 55 | Ultimate Absorption in Light Scattering by a Finite Obstacle. <i>Physical Review Letters</i> , 2018 , 120, 033902 | 7.4 | 19 |
| 54 | Giant field enhancement in high-index dielectric subwavelength particles. <i>Scientific Reports</i> , 2017 , 7, 731 | 4.9 | 35 |
| 53 | Giant in-particle field concentration and Fano resonances at light scattering by high-refractive-index particles. <i>Physical Review A</i> , 2016 , 93, | 2.6 | 62 |
| 52 | Laser heating of dielectric particles for medical and biological applications. <i>Biomedical Optics Express</i> , 2016 , 7, 2781-8 | 3.5 | 5 |
| 51 | Directional Fano resonances in light scattering by a high refractive index dielectric sphere. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 10 |
| 50 | Small Dielectric Spheres with High Refractive Index as New Multifunctional Elements for Optical Devices. <i>Scientific Reports</i> , 2015 , 5, 12288 | 4.9 | 61 |
| 49 | FOREX Trades: Can the Takens Algorithm Help to Obtain Steady Profit at Investment Reallocations?. <i>JETP Letters</i> , 2015 , 102, 841-844 | 1.2 | 1 |
| 48 | Tuned Mullins-Sekerka instability: exact results. <i>Physical Review E</i> , 2014 , 90, 042403 | 2.4 | 1 |
| 47 | Beyond the hybridization effects in plasmonic nanoclusters: diffraction-induced enhanced absorption and scattering. <i>Small</i> , 2014 , 10, 576-83 | 11 | 29 |
| 46 | Light Scattering by Small Particles and Their Light Heating: New Aspects of the Old Problems. <i>Springer Series in Materials Science</i> , 2014 , 125-146 | 0.9 | 1 |
| 45 | Phenomenological approach to light scattering by small particles and directional Fano resonances. <i>Europhysics Letters</i> , 2013 , 104, 34002 | 1.6 | 6 |
| 44 | Paradoxes in laser heating of plasmonic nanoparticles. <i>New Journal of Physics</i> , 2012 , 14, 093022 | 2.9 | 39 |

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| 43 | Assessing the Change in Properties of Rubbers Stored for 40 Years. <i>International Polymer Science and Technology</i> , 2012 , 39, 1-2 | | |
| 42 | Unconventional Fano resonances in light scattering by small particles. <i>Europhysics Letters</i> , 2012 , 97, 440056 | 34 | |
| 41 | Laser Pulse Heating of Spherical Metal Particles. <i>Physical Review X</i> , 2011 , 1, | 9.1 | 18 |
| 40 | Anomalous light absorption by small particles. <i>Europhysics Letters</i> , 2011 , 94, 14004 | 1.6 | 39 |
| 39 | Link of microscopic and macroscopic fields in nematodynamics. <i>Physical Review E</i> , 2011 , 83, 022701 | 2.4 | 2 |
| 38 | Light scattering by a finite obstacle and fano resonances. <i>Physical Review Letters</i> , 2008 , 100, 043903 | 7.4 | 98 |
| 37 | Fano Resonances: A Discovery that Was Not Made 100 Years Ago. <i>Optics and Photonics News</i> , 2008 , 19, 48 | 1.9 | 15 |
| 36 | Patterns in dissipative systems with weakly broken continuous symmetry. <i>Physical Review E</i> , 2008 , 77, 035202 | 2.4 | 12 |
| 35 | Strength and working parameters of covers with rubber-cord casings of different designs. <i>Russian Engineering Research</i> , 2008 , 28, 632-635 | 1 | 1 |
| 34 | Stress-strain state and thermal state of rubber-cord casings of highly elastic couplings. <i>Russian Engineering Research</i> , 2008 , 28, 1159-1164 | 1 | 1 |
| 33 | Peculiarities of light scattering by nanoparticles and nanowires near plasmon resonance frequencies in weakly dissipating materials. <i>Journal of Optics</i> , 2007 , 9, S294-S300 | | 40 |
| 32 | Extraordinary scattering diagram for nanoparticles near plasmon resonance frequencies. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 259-264 | 2.6 | 32 |
| 31 | Peculiarities of light scattering by nanoparticles and nanowires near plasmon resonance frequencies. <i>Journal of Physics: Conference Series</i> , 2007 , 59, 234-239 | 0.3 | 11 |
| 30 | Light scattering at nanoparticles close to plasmon resonance frequencies. <i>Journal of Optical Technology (A Translation of Opticheskiy Zhurnal)</i> , 2006 , 73, 371 | 0.9 | 23 |
| 29 | Anomalous light scattering by small particles. <i>Physical Review Letters</i> , 2006 , 97, 263902 | 7.4 | 193 |
| 28 | New complex approach to market price predictions 2004 , 131-136 | | 2 |
| 27 | General exact solution to the problem of the probability density for sums of random variables. <i>Physical Review Letters</i> , 2002 , 89, 070201 | 7.4 | 13 |
| 26 | Hydrodynamic waves in regions with smooth loss of convexity of isentropes: general phenomenological theory. <i>Physical Review Letters</i> , 2001 , 86, 4037-40 | 7.4 | 1 |

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|----|---|-----|-----|
| 25 | New type of turbulence, or how symmetry results in chaos. <i>Macromolecular Symposia</i> , 2000 , 160, 225-232.8 | | 1 |
| 24 | Extensive chaos in the nikolaevskii model. <i>Physical Review E</i> , 2000 , 62, R17-20 | 2.4 | 24 |
| 23 | Statistical properties of chaos at onset of electroconvection in a homeotropically aligned nematic layer. <i>Physical Review E</i> , 1999 , 59, 3729-3732 | 2.4 | 5 |
| 22 | Short-wavelength instability and transition to chaos in distributed systems with additional symmetry. <i>Physics-USpekhi</i> , 1997 , 40, 159-180 | 2.8 | 24 |
| 21 | Dynamical Aspects of Spatiotemporal Chaos at the Onset of Electroconvection in Homeotropic Nematics. <i>Journal of the Physical Society of Japan</i> , 1997 , 66, 3329-3332 | 1.5 | 22 |
| 20 | Soft-mode turbulence in electrohydrodynamic convection of a homeotropically aligned nematic layer. <i>Physical Review E</i> , 1997 , 56, R6256-R6259 | 2.4 | 46 |
| 19 | Short-Wave Instability in Extended Systems with Additional Symmetry. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1997 , 07, 997-1006 | 2 | 4 |
| 18 | Dynamics of Eckhaus Modes in One-Dimensional Electroconvection Patterns in Nematics. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 302, 357-362 | | 2 |
| 17 | Soft-Mode Turbulence in Electrohydrodynamic Convection in Homeotropic System of Nematics 1997 , 126-128 | | |
| 16 | Universal Defect Dynamics in Two-Dimensional Convective Roll Patterns. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 3419-3422 | 1.5 | 1 |
| 15 | New scenario for transition to turbulence?. <i>Physical Review Letters</i> , 1996 , 76, 1631-1634 | 7.4 | 65 |
| 14 | Short-wavelength instability in systems with slow long-wavelength dynamics. <i>Physical Review E</i> , 1996 , 54, 4973-4981 | 2.4 | 26 |
| 13 | Universal spatiotemporal scaling in the dynamics of one-dimensional pattern selection. <i>Physical Review E</i> , 1995 , 51, 5132-5135 | 2.4 | 3 |
| 12 | Wave number selection in convection and related problems. <i>Physical Review E</i> , 1994 , 50, 1194-1197 | 2.4 | 13 |
| 11 | Phase-slip dynamics in one-dimensional distributed systems. <i>Physical Review A</i> , 1992 , 45, 4175-4177 | 2.6 | 5 |
| 10 | Interface in nematics. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990 , 12, 1325-1333 | | |
| 9 | Emission of waves by moving kinks in a spatially modulated sine-Gordon system. <i>Physical Review B</i> , 1990 , 41, 11271-11281 | 3.3 | 9 |
| 8 | Domain boundaries in convection patterns. <i>Physical Review A</i> , 1990 , 42, 7244-7263 | 2.6 | 142 |

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|---|--|-----|----|
| 7 | Instabilities in the array of phase-slip centers in superconducting filaments. <i>Journal of Low Temperature Physics</i> , 1989 , 77, 209-234 | 1.3 | 2 |
| 6 | On strong transitions between structures of differing symmetry accompanying weakly supercritical convection. <i>Prikladnaya Matematika I Mekhanika</i> , 1988 , 52, 59-62 | | |
| 5 | Bifurcations in distributed kinetic systems with aperiodic instability. <i>Physica D: Nonlinear Phenomena</i> , 1984 , 14, 67-87 | 3.3 | 46 |
| 4 | Thermochemical instability of transparent media induced by an absorbing inclusion. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1983 , 31, 85-88 | | 7 |
| 3 | Shape of the liquid-phase surface in melting of highly absorbing media by laser radiation. <i>Soviet Journal of Quantum Electronics</i> , 1978 , 8, 462-466 | | 2 |
| 2 | Interaction of the radiation from a flash tube with the cooling liquid. <i>Journal of Engineering Physics</i> , 1975 , 28, 182-186 | | |
| 1 | Theory, Observation, and Ultrafast Response of the Hybrid Anapole Regime in Light Scattering. <i>Laser and Photonics Reviews</i> , 2100114 | 8.3 | 12 |