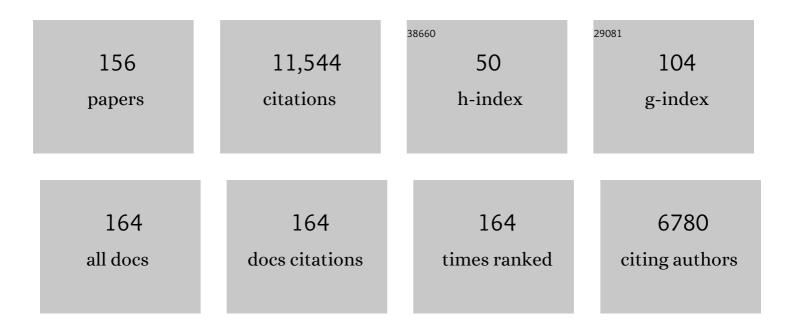
Igor Aronson

List of Publications by Year in descending order

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ICOP APONSON

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The world of the complex Ginzburg-Landau equation. Reviews of Modern Physics, 2002, 74, 99-143. | 16.4 | 1,508 |
| 2 | Patterns and collective behavior in granular media: Theoretical concepts. Reviews of Modern Physics, 2006, 78, 641-692. | 16.4 | 703 |
| 3 | Concentration Dependence of the Collective Dynamics of Swimming Bacteria. Physical Review Letters, 2007, 98, 158102. | 2.9 | 579 |
| 4 | Swimming bacteria power microscopic gears. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 969-974. | 3.3 | 458 |
| 5 | Magnetic manipulation of self-assembled colloidal asters. Nature Materials, 2011, 10, 698-703. | 13.3 | 354 |
| 6 | Living liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1265-1270. | 3.3 | 330 |
| 7 | Reduction of Viscosity in Suspension of Swimming Bacteria. Physical Review Letters, 2009, 103, 148101. | 2.9 | 305 |
| 8 | Physical Properties of Collective Motion in Suspensions of Bacteria. Physical Review Letters, 2012, 109, 248109. | 2.9 | 275 |
| 9 | The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001. | 0.7 | 242 |
| 10 | Continuum Field Description of Crack Propagation. Physical Review Letters, 2000, 85, 118-121. | 2.9 | 234 |
| 11 | Model for self-polarization and motility of keratocyte fragments. Journal of the Royal Society Interface, 2012, 9, 1084-1092. | 1.5 | 178 |
| 12 | Self-Assembled Magnetic Surface Swimmers. Physical Review Letters, 2009, 102, 118103. | 2.9 | 173 |
| 13 | Enhanced mixing and spatial instability in concentrated bacterial suspensions. Physical Review E, 2009, 80, 031903. | 0.8 | 170 |
| 14 | Localized and Cellular Patterns in a Vibrated Granular Layer. Physical Review Letters, 1997, 79, 213-216. | 2.9 | 158 |
| 15 | Model for dynamical coherence in thin films of self-propelled microorganisms. Physical Review E, 2007, 75, 040901. | 0.8 | 156 |
| 16 | Continuum theory of partially fluidized granular flows. Physical Review E, 2002, 65, 061303. | 0.8 | 147 |
| 17 | Pattern formation of microtubules and motors: Inelastic interaction of polar rods. Physical Review E, 2005, 71, 050901. | 0.8 | 145 |
| 18 | Flocking ferromagnetic colloids. Science Advances, 2017, 3, e1601469. | 4.7 | 143 |

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| 19 | Transport Powered by Bacterial Turbulence. Physical Review Letters, 2014, 112, 158101. | 2.9 | 139 |
| 20 | Collisions of deformable cells lead to collective migration. Scientific Reports, 2015, 5, 9172. | 1.6 | 129 |
| 21 | Emergence of agent swarm migration and vortex formation through inelastic collisions. New Journal of Physics, 2008, 10, 023036. | 1.2 | 126 |
| 22 | Stability limits of spirals and traveling waves in nonequilibrium media. Physical Review A, 1992, 46, R2992-R2995. | 1.0 | 124 |
| 23 | Continuum description of avalanches in granular media. Physical Review E, 2001, 64, 020301. | 0.8 | 122 |
| 24 | Nonlinear Field Equations for Aligning Self-Propelled Rods. Physical Review Letters, 2012, 109, 268701. | 2.9 | 121 |
| 25 | Dendritic Flux Avalanches and Nonlocal Electrodynamics in Thin Superconducting Films. Physical Review Letters, 2005, 94, 037002. | 2.9 | 119 |
| 26 | Active turbulence in a gas of self-assembled spinners. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12870-12875. | 3.3 | 118 |
| 27 | Active colloids. Physics-Uspekhi, 2013, 56, 79-92. | 0.8 | 109 |
| 28 | Viscosity of bacterial suspensions: Hydrodynamic interactions and self-induced noise. Physical Review E, 2011, 83, 050904. | 0.8 | 102 |
| 29 | Collective Motion of Self-Propelled Particles with Memory. Physical Review Letters, 2015, 114, 168001. | 2.9 | 97 |
| 30 | Dynamic Self-Assembly and Patterns in Electrostatically Driven Granular Media. Physical Review Letters, 2003, 90, 114301. | 2.9 | 95 |
| 31 | Tuning antimicrobial properties of biomimetic nanopatterned surfaces. Nanoscale, 2018, 10, 6639-6650. | 2.8 | 95 |
| 32 | Partially fluidized shear granular flows: Continuum theory and molecular dynamics simulations. Physical Review E, 2003, 68, 021301. | 0.8 | 93 |
| 33 | Effects of Adhesion Dynamics and Substrate Compliance on the Shape and Motility of Crawling Cells. PLoS ONE, 2013, 8, e64511. | 1.1 | 92 |
| 34 | Formation of self-organized nanoscale porous structures in anodic aluminum oxide. Physical Review B, 2006, 73, . | 1.1 | 89 |
| 35 | Modeling crawling cell movement on soft engineered substrates. Soft Matter, 2014, 10, 1365-1373. | 1.2 | 85 |
| 36 | Driven Magnetic Particles on a Fluid Surface: Pattern Assisted Surface Flows. Physical Review Letters, 2007, 99, 158301. | 2.9 | 84 |

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| 37 | Three-dimensional model for the effective viscosity of bacterial suspensions. Physical Review E, 2009, 80, 041922. | 0.8 | 84 |
| 38 | Electrostatically Driven Granular Media: Phase Transitions and Coarsening. Physical Review Letters, 2000, 84, 3306-3309. | 2.9 | 80 |
| 39 | Theory of self-assembly of microtubules and motors. Physical Review E, 2006, 74, 031915. | 0.8 | 79 |
| 40 | Large-Scale Chaos and Fluctuations in Active Nematics. Physical Review Letters, 2014, 113, 038302. | 2.9 | 74 |
| 41 | Structure Formation in Electromagnetically Driven Granular Media. Physical Review Letters, 2005, 94, 108002. | 2.9 | 73 |
| 42 | Engineering bacterial vortex lattice via direct laser lithography. Nature Communications, 2018, 9, 4486. | 5.8 | 73 |
| 43 | Nucleation of Vortices by Rapid Thermal Quench. Physical Review Letters, 1999, 83, 2600-2603. | 2.9 | 71 |
| 44 | Swirling motion in a system of vibrated elongated particles. Physical Review E, 2007, 75, 051301. | 0.8 | 71 |
| 45 | Theory of interaction and bound states of spiral waves in oscillatory media. Physical Review E, 1993, 47, 3231-3241. | 0.8 | 69 |
| 46 | Dynamics of Axial Separation in Long Rotating Drums. Physical Review Letters, 1999, 82, 4643-4646. | 2.9 | 67 |
| 47 | Computational approaches to substrate-based cell motility. Npj Computational Materials, 2016, 2, . | 3.5 | 64 |
| 48 | Order Parameter Description of Stationary Partially Fluidized Shear Granular Flows. Physical Review Letters, 2003, 90, 254301. | 2.9 | 61 |
| 49 | Continuum theory of axial segregation in a long rotating drum. Physical Review E, 1999, 60, 1975-1987. | 0.8 | 59 |
| 50 | Emergence of reconfigurable wires and spinners via dynamic self-assembly. Scientific Reports, 2015, 5, 9528. | 1.6 | 52 |
| 51 | Polar jets of swimming bacteria condensed by a patterned liquid crystal. Nature Physics, 2020, 16, 481-487. | 6.5 | 51 |
| 52 | Periodic and Disordered Structures in a Modulated Gas-Driven Granular Layer. Physical Review Letters, 2003, 90, 134301. | 2.9 | 50 |
| 53 | Collective behavior in out-of-equilibrium colloidal suspensions. Comptes Rendus Physique, 2013, 14, 518-527. | 0.3 | 50 |
| 54 | Self-assembled tunable networks of sticky colloidal particles. Nature Communications, 2014, 5, 3117. | 5.8 | 50 |

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| 55 | Dynamic states of swimming bacteria in a nematic liquid crystal cell with homeotropic alignment. New Journal of Physics, 2017, 19, 055006. | 1.2 | 50 |
| 56 | Topological Defects in a Living Nematic Ensnare Swimming Bacteria. Physical Review X, 2017, 7, . | 2.8 | 50 |
| 57 | Confinement and substrate topography control cell migration in a 3D computational model. Communications Physics, 2019, 2, . | 2.0 | 50 |
| 58 | Patterns in thin vibrated granular layers: Interfaces, hexagons, and superoscillons. Physical Review E, 2000, 61, 5600-5610. | 0.8 | 49 |
| 59 | Random bursts determine dynamics of active filaments. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10703-10707. | 3.3 | 48 |
| 60 | Stick-slip friction and nucleation dynamics of ultrathin liquid films. Physical Review B, 2002, 65, . | 1.1 | 47 |
| 61 | Emergence of self-organized multivortex states in flocks of active rollers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9706-9711. | 3.3 | 46 |
| 62 | Resonances, Instabilities, and Structure Selection of Driven Josephson Lattice in Layered Superconductors. Physical Review Letters, 2000, 85, 3938-3941. | 2.9 | 45 |
| 63 | Phase Separation and Coarsening in Electrostatically Driven Granular Media. Physical Review Letters, 2002, 88, 204301. | 2.9 | 45 |
| 64 | Effects of cross-links on motor-mediated filament organization. New Journal of Physics, 2007, 9, 421-421. | 1.2 | 45 |
| 65 | Individual behavior and pairwise interactions between microswimmers in anisotropic liquid. Physical Review E, 2015, 91, 013009. | 0.8 | 43 |
| 66 | A particle-field approach bridges phase separation and collective motion in active matter. Nature Communications, 2020, 11, 5365. | 5.8 | 43 |
| 67 | Nonlocal rheological properties of granular flows near a jamming limit. Physical Review E, 2008, 78, 031303. | 0.8 | 42 |
| 68 | Comment on "Long-Lived Giant Number Fluctuations in a Swarming Granular Nematic". Science, 2008, 320, 612-612. | 6.0 | 42 |
| 69 | Shape-programmed 3D printed swimming microtori for the transport of passive and active agents. Nature Communications, 2019, 10, 4932. | 5.8 | 42 |
| 70 | A Model of Hydrodynamic Interaction Between Swimming Bacteria. Bulletin of Mathematical Biology, 2010, 72, 148-183. | 0.9 | 40 |
| 71 | Correlation properties of collective motion in bacterial suspensions. New Journal of Physics, 2013, 15, 105021. | 1.2 | 40 |
| 72 | Spiral actin-polymerization waves can generate amoeboidal cell crawling. New Journal of Physics, 2014, 16, 055007. | 1.2 | 40 |

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| 73 | Transverse instability of avalanches in granular flows down an incline. Physical Review E, 2006, 73, 050302. | 0.8 | 39 |
| 74 | Formation of periodic and localized patterns in an oscillating granular layer. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 103-110. | 1.2 | 38 |
| 75 | Theory of Pattern Formation of Metallic Microparticles in Poorly Conducting Liquids. Physical Review Letters, 2004, 92, 234301. | 2.9 | 38 |
| 76 | Formation of nanoscale pore arrays during anodization of aluminum. Europhysics Letters, 2005, 70, 836-842. | 0.7 | 38 |
| 77 | Formation of asymmetric states of spiral waves in oscillatory media. Physical Review E, 1993, 48, R9-R12. | 0.8 | 36 |
| 78 | Controlled Dynamics of Interfaces in a Vibrated Granular Layer. Physical Review Letters, 1999, 82, 731-734. | 2.9 | 36 |
| 79 | Crystallization kinetics and self-induced pinning in cellular patterns. Physical Review E, 2000, 62, R5-R8. | 0.8 | 36 |
| 80 | Organizing bacterial vortex lattices by periodic obstacle arrays. Communications Physics, 2020, 3, . | 2.0 | 34 |
| 81 | Interaction of Vortices in a Complex Vector Field and Stability of a "Vortex Molecule― Physical Review Letters, 2000, 84, 634-637. | 2.9 | 33 |
| 82 | Stick-slip dynamics of a granular layer under shear. Physical Review E, 2004, 69, 031302. | 0.8 | 33 |
| 83 | Rapid expulsion of microswimmers by a vortical flow. Nature Communications, 2016, 7, 11114. | 5.8 | 33 |
| 84 | Fight the flow: the role of shear in artificial rheotaxis for individual and collective motion. Nanoscale, 2019, 11, 10944-10951. | 2.8 | 32 |
| 85 | Hexagons and interfaces in a vibrated granular layer. Physical Review E, 1999, 59, R1327-R1330. | 0.8 | 30 |
| 86 | Lattice Boltzmann simulation of asymmetric flow in nematic liquid crystals with finite anchoring. Journal of Chemical Physics, 2016, 144, 084905. | 1.2 | 30 |
| 87 | Rheological and structural properties of dilute active filament solutions. Physical Review E, 2008, 77, 011918. | 0.8 | 29 |
| 88 | Model for dynamic self-assembled magnetic surface structures. Physical Review E, 2010, 82, 015301. | 0.8 | 29 |
| 89 | Cold Active Motion: How Time-Independent Disorder Affects the Motion of Self-Propelled Agents. Physical Review Letters, 2018, 120, 238101. | 2.9 | 29 |
| 90 | Spiral Motion in a Noisy Complex Ginzburg-Landau Equation. Physical Review Letters, 1998, 80, 2646-2649. | 2.9 | 28 |

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| 91 | Motion of two micro-wedges in a turbulent bacterial bath. European Physical Journal: Special Topics, 2015, 224, 1275-1286. | 1.2 | 27 |
| 92 | Flexibility of bacterial flagella in external shear results in complex swimming trajectories. Journal of the Royal Society Interface, 2015, 12, 20140904. | 1.5 | 27 |
| 93 | Dynamic self-assembly and self-organized transport of magnetic micro-swimmers. Scientific Reports, 2017, 7, 14726. | 1.6 | 27 |
| 94 | Phase Imprinting in Equilibrating Fermi Gases: The Transience of Vortex Rings and Other Defects. Physical Review Letters, 2014, 113, 125301. | 2.9 | 25 |
| 95 | Harnessing Medium Anisotropy To Control Active Matter. Accounts of Chemical Research, 2018, 51, 3023-3030. | 7.6 | 25 |
| 96 | Bacterial active matter. Reports on Progress in Physics, 2022, 85, 076601. | 8.1 | 25 |
| 97 | Dynamics of vortex lines in the three-dimensional complex Ginzburg-Landau equation: Instability, stretching, entanglement, and helices. Physical Review E, 1998, 57, 5276-5286. | 0.8 | 24 |
| 98 | Modular approach for modeling cell motility. European Physical Journal: Special Topics, 2014, 223, 1265-1277. | 1.2 | 24 |
| 99 | Mechanical shear controls bacterial penetration in mucus. Scientific Reports, 2019, 9, 9713. | 1.6 | 24 |
| 100 | Instability and Stretching of Vortex Lines in the Three-Dimensional Complex Ginzburg-Landau Equation. Physical Review Letters, 1997, 79, 4174-4177. | 2.9 | 23 |
| 101 | Ginzburg-Landau Theory of Spiral Surface Growth. Physical Review Letters, 1998, 80, 1770-1773. | 2.9 | 22 |
| 102 | Understanding Dense Active Nematics from Microscopic Models. Physical Review Letters, 2019, 123, 258001. | 2.9 | 22 |
| 103 | Effective shear viscosity and dynamics of suspensions of micro-swimmers from small to moderate concentrations. Journal of Mathematical Biology, 2011, 62, 707-740. | 0.8 | 21 |
| 104 | Nonequilibrium dislocation dynamics and instability of driven vortex lattices in two dimensions. Physical Review B, 1998, 58, 14541-14547. | 1.1 | 20 |
| 105 | Viscosity Control of the Dynamic Self-Assembly in Ferromagnetic Suspensions. Physical Review Letters, 2013, 110, 198001. | 2.9 | 20 |
| 106 | Continuum modeling of myxobacteria clustering. New Journal of Physics, 2013, 15, 035029. | 1.2 | 20 |
| 107 | Parallel magnetic field suppresses dissipation in superconducting nanostrips. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10274-E10280. | 3.3 | 20 |
| 108 | Interaction of spirals in oscillatory media. Physical Review Letters, 1991, 67, 404-404. | 2.9 | 19 |

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| 109 | Membrane tension feedback on shape and motility of eukaryotic cells. Physica D: Nonlinear Phenomena, 2016, 318-319, 26-33. | 1.3 | 19 |
| 110 | Spontaneous topological charging of tactoids in a living nematic. New Journal of Physics, 2018, 20, 043027. | 1.2 | 19 |
| 111 | Instability of expanding bacterial droplets. Nature Communications, 2018, 9, 1322. | 5.8 | 17 |
| 112 | Stability of spatially homogeneous chaotic regimes in unidirectional chains. Nonlinearity, 1990, 3, 639-651. | 0.6 | 16 |
| 113 | Control of microswimmers by spiral nematic vortices: Transition from individual to collective motion and contraction, expansion, and stable circulation of bacterial swirls. Physical Review Research, 2020, 2, . | 1.3 | 15 |
| 114 | Topological defects in active liquid crystals. Physics-Uspekhi, 2019, 62, 892-909. | 0.8 | 14 |
| 115 | Surface anchoring controls orientation of a microswimmer in nematic liquid crystal. Communications Physics, 2020, 3, . | 2.0 | 14 |
| 116 | Quantifying hydrodynamic collective states of magnetic colloidal spinners and rollers. Physical Review Fluids, 2019, 4, . | 1.0 | 14 |
| 117 | Interactions of semiflexible filaments and molecular motors. Physical Review E, 2007, 76, 051905. | 0.8 | 13 |
| 118 | Effect of noise on solid-to-liquid transition in small granular systems under shear. Physical Review E, 2009, 80, 041305. | 0.8 | 11 |
| 119 | Confinement and Collective Escape of Active Particles. Physical Review Letters, 2022, 128, 108001. | 2.9 | 11 |
| 120 | Emergent coherent states and flow rectification in active magnetic colloidal monolayers. Soft Matter, 2013, 9, 6757. | 1.2 | 10 |
| 121 | Swimmers by design. Nature, 2016, 531, 312-313. | 13.7 | 10 |
| 122 | Flagella bending affects macroscopic properties of bacterial suspensions. Journal of the Royal Society Interface, 2017, 14, 20161031. | 1.5 | 10 |
| 123 | Erosive granular avalanches: a cross confrontation between theory and experiment. Granular Matter, 2007, 10, 3-11. | 1.1 | 9 |
| 124 | Nucleation of spontaneous vortices in trapped Fermi gases undergoing a BCS-BEC crossover. Physical Review B, 2011, 84, . | 1.1 | 9 |
| 125 | Selfâ€Propulsion and Shear Flow Align Active Particles in Nozzles and Channels. Advanced Intelligent Systems, 2021, 3, 2000178. | 3.3 | 9 |
| 126 | Dynamics of vortices in current-carrying superconducting films. Journal of Low Temperature Physics, 1992, 89, 859-868. | 0.6 | 8 |

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| 127 | Velocity statistics of dynamic spinners in out-of-equilibrium magnetic suspensions. Soft Matter, 2015, 11, 6055-6061. | 1.2 | 8 |
| 128 | Zig-zag Self-assembly of Magnetic Octahedral Fe3O4 Nanocrystals using in situ Liquid Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 36-37. | 0.2 | 8 |
| 129 | Rotating lamellipodium waves in polarizing cells. Communications Physics, 2018, 1, . | 2.0 | 8 |
| 130 | Effect of vibration on solid-to-liquid transition in small granular systems under shear. Granular Matter, 2012, 14, 151-156. | 1.1 | 7 |
| 131 | Phase slips in superconducting weak links. Physical Review B, 2017, 95, . | 1.1 | 7 |
| 132 | Emergence of lanes and turbulent-like motion in active spinner fluid. Communications Physics, 2021, 4, | 2.0 | 7 |
| 133 | Dynamics of the constrained polymer collapse. Europhysics Letters, 2003, 62, 848-854. | 0.7 | 6 |
| 134 | Statistics of Active Transport in Xenopus Melanophores Cells. Biophysical Journal, 2010, 99, 3216-3223. | 0.2 | 6 |
| 135 | Macroscopic Model of Substrate-Based Cell Motility. Biological and Medical Physics Series, 2016, , 1-67. | 0.3 | 6 |
| 136 | Reversals and collisions optimize protein exchange in bacterial swarms. Physical Review E, 2017, 95, 032408. | 0.8 | 6 |
| 137 | Direct Lattice Shaking of Bose Condensates: Finite Momentum Superfluids. Physical Review Letters, 2017, 118, 220401. | 2.9 | 6 |
| 138 | Minimal model of directed cell motility on patterned substrates. Physical Review E, 2017, 96, 052408. | 0.8 | 6 |
| 139 | Superfluid swimmers. Physical Review Research, 2021, 3, . | 1.3 | 6 |
| 140 | Patterns and intrinsic fluctuations in semi-dilute motor-filament systems. Europhysics Letters, 2010, 90, 28001. | 0.7 | 5 |
| 141 | Self-organized superconducting textures in thin films. Physical Review B, 2011, 84, . | 1.1 | 5 |
| 142 | Qualification of 3-D Printed Mortar With Electrical Conductivity Measurements. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8. | 2.4 | 4 |
| 143 | Ceneric equilibration dynamics of planar defects in trapped atomic superfluids. Physical Review A, 2015, 91, . | 1.0 | 3 |
| 144 | Mechanical Model of Globular Transition in Polymers. ChemPlusChem, 2015, 80, 37-41. | 1.3 | 3 |

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| 145 | Development of microwave and impedance spectroscopy methods for in-situ nondestructive evaluation of alkali silica reaction in concrete. AIP Conference Proceedings, 2017, , . | 0.3 | 3 |
| 146 | Rashmi Desai and Raymond Kapral: Dynamics ofÂSelf-Organized and Self-Assembled Structures. Journal of Statistical Physics, 2011, 142, 220-222. | 0.5 | 1 |
| 147 | Motor-Mediated Microtubule Self-Organization in Dilute and Semi-Dilute Filament Solutions. Mathematical Modelling of Natural Phenomena, 2011, 6, 119-137. | 0.9 | 1 |
| 148 | Collisions of deformable cells lead to collective migration. , 0, . | | 1 |
| 149 | PHASE-FIELD DESCRIPTION OF SUBSTRATE-BASED MOTILITY OF EUKARYOTIC CELLS. World Scientific Lecture Notes in Complex Systems, 2014, , 93-104. | 0.1 | 1 |
| 150 | Spontaneous polarization and cell guidance on asymmetric nanotopography. Communications Physics, 2022, 5, . | 2.0 | 1 |
| 151 | Forces that control self-organization of chemically-propelled Janus tori. Communications Physics, 2022, 5, . | 2.0 | 1 |
| 152 | Dynamics of quasiperiodic wave motions in unidirectional strings of oscillators. Radiophysics and Quantum Electronics, 1988, 31, 22-31. | 0.1 | 0 |
| 153 | Nonlinear dynamics of the localized states of multidimensional fields. Uspekhi Fizicheskikh Nauk, 1990, 33, 300-302. | 0.3 | 0 |
| 154 | Properties of electrostatically-driven granular medium: Phase transitions and charge transfer. AIP Conference Proceedings, 2000, , . | 0.3 | 0 |
| 155 | Reply to comment by Baohua Ji. European Physical Journal: Special Topics, 2014, 223, 1407-1408. | 1.2 | 0 |
| 156 | Comment on Falcke et al., "Polymerization, bending, tension: What happens at the leading edge of motile cells?― European Physical Journal: Special Topics, 2014, 223, 1431-1432. | 1.2 | 0 |