

Philipp Maass

List of Publications by Year in descending order

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159
papers

5,489
citations

101543

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91884

69
g-index

161
all docs

161
docs citations

161
times ranked

3469
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Scaling behaviour in the growth of companies. <i>Nature</i> , 1996, 379, 804-806. | 27.8 | 637 |
| 2 | Fundamental questions relating to ion conduction in disordered solids. <i>Reports on Progress in Physics</i> , 2009, 72, 046501. | 20.1 | 360 |
| 3 | Ion transport anomalies in glasses. <i>Physical Review Letters</i> , 1992, 68, 3064-3067. | 7.8 | 293 |
| 4 | The dynamic structure model for ion transport in glasses. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 1222-1236. | 3.1 | 288 |
| 5 | Non-Debye relaxation in structurally disordered ionic conductors: Effect of Coulomb interaction. <i>Physical Review Letters</i> , 1991, 66, 52-55. | 7.8 | 239 |
| 6 | Anomalous fluctuations in the dynamics of complex systems: from DNA and physiology to econophysics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 302-321. | 2.6 | 199 |
| 7 | <i>Colloquium</i>: Cluster growth on surfaces: Densities, size distributions, and morphologies. <i>Reviews of Modern Physics</i> , 2013, 85, 921-939. | 45.6 | 146 |
| 8 | Non-Debye relaxations in disordered ionic solids. <i>Chemical Physics</i> , 2002, 284, 439-467. | 1.9 | 117 |
| 9 | Nonstandard relaxation behavior in ionically conducting materials. <i>Physical Review B</i> , 1995, 51, 8164-8177. | 3.2 | 112 |
| 10 | Novel Surface Modes in Spinodal Decomposition. <i>Physical Review Letters</i> , 1997, 79, 893-896. | 7.8 | 107 |
| 11 | Towards a theory for the mixed alkali effect in glasses. <i>Journal of Non-Crystalline Solids</i> , 1999, 255, 35-46. | 3.1 | 103 |
| 12 | Mixed alkali effects in ionic conductors: a new model and computer simulations. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1109-1112. | 3.1 | 95 |
| 13 | Spin-lattice relaxation: Non-Bloembergen-Purcell-Pound behavior by structural disorder and Coulomb interactions. <i>Physical Review Letters</i> , 1993, 71, 573-576. | 7.8 | 88 |
| 14 | Phase separation in confined geometries: Solving the Cahn-Hilliard equation with generic boundary conditions. <i>Computer Physics Communications</i> , 2001, 133, 139-157. | 7.5 | 87 |
| 15 | Description of far-from-equilibrium processes by mean-field lattice gas models. <i>Advances in Physics</i> , 2003, 52, 523-638. | 14.4 | 85 |
| 16 | Microscopic Explanation of the Non-Arrhenius Conductivity in Glassy Fast Ionic Conductors. <i>Physical Review Letters</i> , 1996, 77, 1528-1531. | 7.8 | 82 |
| 17 | Multiple Scaling Regimes in Simple Aging Models. <i>Physical Review Letters</i> , 2000, 84, 5403-5406. | 7.8 | 75 |
| 18 | Scaling behavior in economics: The problem of quantifying company growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 244, 1-24. | 2.6 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Tuning Molecular Self-Assembly on Bulk Insulator Surfaces by Anchoring of the Organic Building Blocks. <i>Advanced Materials</i> , 2013, 25, 3948-3956. | 21.0 | 66 |
| 20 | Diverging time and length scales of spinodal decomposition modes in thin films. <i>Europhysics Letters</i> , 1998, 42, 49-54. | 2.0 | 65 |
| 21 | Second Layer Nucleation in Thin Film Growth. <i>Physical Review Letters</i> , 1999, 83, 3490-3493. | 7.8 | 61 |
| 22 | Soft ellipsoid model for Gaussian polymer chains. <i>Journal of Chemical Physics</i> , 2001, 114, 7655-7668. | 3.0 | 54 |
| 23 | Influence of hydrodynamic interactions on the dynamics of long-range interacting colloidal particles. <i>Europhysics Letters</i> , 1999, 46, 537-541. | 2.0 | 53 |
| 24 | Mixed Barrier Model for the Mixed Glass Former Effect in Ion Conducting Glasses. <i>Physical Review Letters</i> , 2009, 102, 145902. | 7.8 | 50 |
| 25 | Hopping in the glass configuration space: Subaging and generalized scaling laws. <i>Physical Review B</i> , 2001, 64, . | 3.2 | 48 |
| 26 | Hydration strongly affects the molecular and electronic structure of membrane phospholipids. <i>Journal of Chemical Physics</i> , 2012, 136, 114709. | 3.0 | 48 |
| 27 | Time-dependent density functional theory and the kinetics of lattice gas systems in contact with a wall. <i>Journal of Chemical Physics</i> , 1998, 108, 3028-3037. | 3.0 | 46 |
| 28 | Classical Driven Transport in Open Systems with Particle Interactions and General Couplings to Reservoirs. <i>Physical Review Letters</i> , 2012, 108, 060603. | 7.8 | 44 |
| 29 | Second-Layer Induced Island Morphologies in Thin-Film Growth of Fullerenes. <i>Physical Review Letters</i> , 2011, 107, 016101. | 7.8 | 43 |
| 30 | Scaling and universality in animate and inanimate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 20-48. | 2.6 | 42 |
| 31 | Capture numbers and island size distributions in models of submonolayer surface growth. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 42 |
| 32 | Wind Speed Modeling by Nested ARIMA Processes. <i>Energies</i> , 2019, 12, 69. | 3.1 | 39 |
| 33 | Mixed Alkali Effect in Crystals of Li^+ - and Na^+ -Alumina Structure. <i>Physical Review Letters</i> , 1996, 76, 2338-2341. | 7.8 | 38 |
| 34 | Nucleation on top of islands in epitaxial growth. <i>Physical Review B</i> , 2000, 62, 8338-8359. | 3.2 | 38 |
| 35 | CAN STATISTICAL PHYSICS CONTRIBUTE TO THE SCIENCE OF ECONOMICS?. <i>Fractals</i> , 1996, 04, 415-425. | 3.7 | 37 |
| 36 | Hopping transport in the presence of site-energy disorder: Temperature and concentration scaling of conductivity spectra. <i>Physical Review B</i> , 2000, 61, 6057-6062. | 3.2 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Comparison of ion sites and diffusion paths in glasses obtained by molecular dynamics simulations and bond valence analysis. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 37 |
| 38 | One-dimensional transport of interacting particles: Currents, density profiles, phase diagrams, and symmetries. <i>Physical Review E</i> , 2013, 87, 062126. | 2.1 | 37 |
| 39 | Diffusion with memory: a model for mixed alkali effects in vitreous ionic conductors. <i>Journal of Physics A</i> , 1991, 24, L881-L886. | 1.6 | 34 |
| 40 | Stochastic modelling of ion dynamics in complex systems: Dipolar effects. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1283-1292. | 0.6 | 34 |
| 41 | Scaling of Island Densities in Submonolayer Growth of Binary Alloys. <i>Physical Review Letters</i> , 2007, 99, 016106. | 7.8 | 33 |
| 42 | Exponential Distribution of Long Heart Beat Intervals During Atrial Fibrillation and Their Relevance for White Noise Behaviour in Power Spectrum. <i>Journal of Biological Physics</i> , 2007, 32, 383-392. | 1.5 | 33 |
| 43 | Network forming units in alkali borate and borophosphate glasses and the mixed glass former effect. <i>RSC Advances</i> , 2011, 1, 1370. | 3.6 | 32 |
| 44 | Work distribution in a time-dependent logarithmic harmonic potential: exact results and asymptotic analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 075002. | 2.1 | 32 |
| 45 | Ion diffusion and mechanical losses in mixed alkali glasses. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 5178-5187. | 3.1 | 31 |
| 46 | Investigation of the Structures of Sodium Borophosphate Glasses by Reverse Monte Carlo Modeling to Examine the Origins of the Mixed Glass Former Effect. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1503-1511. | 3.1 | 31 |
| 47 | Effective Medium Theory of Conduction in Stretched Polymer Electrolytes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6149-6155. | 2.6 | 29 |
| 48 | Soft particle model for block copolymers. <i>Journal of Chemical Physics</i> , 2007, 127, 134905. | 3.0 | 29 |
| 49 | Phase transitions and optimal transport in stochastic roundabout traffic. <i>Physical Review E</i> , 2016, 94, 012304. | 2.1 | 29 |
| 50 | Diffusion Limited Percolation: A Model for Transport in Ionic Glasses. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991, 95, 977-983. | 0.9 | 24 |
| 51 | Brownian Asymmetric Simple Exclusion Process. <i>Physical Review Letters</i> , 2018, 121, 160601. | 7.8 | 24 |
| 52 | Approaching the low-temperature limit in nucleation and two-dimensional growth of fcc (100) metal films Ag/Ag(100). <i>Physical Review B</i> , 2002, 66, . | 3.2 | 23 |
| 53 | Statistical analysis of fluctuations in the ECG morphology. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 354, 415-431. | 2.6 | 23 |
| 54 | Time-dependent density functional theory for driven lattice gas systems with interactions. <i>Europhysics Letters</i> , 2011, 93, 50003. | 2.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Power grid stability under perturbation of single nodes: Effects of heterogeneity and internal nodes. <i>Chaos</i> , 2018, 28, 103120. | 2.5 | 23 |
| 56 | Transport of disordered structures: Effect of long range interactions. <i>Solid State Ionics</i> , 1990, 40-41, 187-191. | 2.7 | 22 |
| 57 | Diffusion in disordered systems: non-Debye relaxation due to long-range interactions. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1022-1027. | 3.1 | 22 |
| 58 | LÃ©vy flights with quenched noise amplitudes. <i>Journal of Physics A</i> , 1998, 31, 2603-2609. | 1.6 | 22 |
| 59 | Exact density functionals in one dimension. <i>Journal of Physics A</i> , 2000, 33, L41-L46. | 1.6 | 21 |
| 60 | Modeling epitaxial growth of binary alloy nanostructures on a weakly interacting substrate. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 21 |
| 61 | Internal Friction and Vulnerability of Mixed Alkali Glasses. <i>Physical Review Letters</i> , 2005, 95, 115901. | 7.8 | 20 |
| 62 | Island size distributions in submonolayer growth: Prediction by mean field theory with coverage dependent capture numbers. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 20 |
| 63 | Nonlinear hopping transport in ring systems and open channels. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 645-654. | 2.8 | 20 |
| 64 | Resilience of electricity grids against transmission line overloads under wind power injection at different nodes. <i>Scientific Reports</i> , 2017, 7, 11562. | 3.3 | 20 |
| 65 | Heterogeneities in electricity grids strongly enhance non-Gaussian features of frequency fluctuations under stochastic power input. <i>Chaos</i> , 2019, 29, 103149. | 2.5 | 20 |
| 66 | Dynamics of disordered dipolar systems. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3168-3172. | 2.8 | 19 |
| 67 | Diffusion and Superdiffusion of a Particle in a Random Potential with Finite Correlation Time. <i>Physical Review Letters</i> , 1995, 74, 1895-1899. | 7.8 | 18 |
| 68 | Energetics and performance of a microscopic heat engine based on exact calculations of work and heat distributions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P03002. | 2.3 | 18 |
| 69 | Attempt time Monte Carlo: An alternative for simulation of stochastic jump processes with time-dependent transition rates. <i>Europhysics Letters</i> , 2011, 93, 40003. | 2.0 | 18 |
| 70 | Transport anomalies in glasses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 200, 80-94. | 2.6 | 17 |
| 71 | Reverse Monte Carlo modeling of ion conducting network glasses: An evaluation based on molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10444. | 2.8 | 17 |
| 72 | Wall-Induced Density Profiles and Density Correlations in Confined Takahashi Lattice Gases. <i>Journal of Statistical Physics</i> , 2000, 99, 273-312. | 1.2 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Stochastic theories and scaling relations for early-stage surface growth. European Physical Journal: Special Topics, 2008, 161, 151-165. | 2.6 | 16 |
| 74 | Work distributions for Ising chains in a time-dependent magnetic field. Physical Review E, 2009, 80, 020101. | 2.1 | 16 |
| 75 | Kinetic growth of nanoclusters with perpendicular magnetic anisotropy. Europhysics Letters, 2006, 75, 167-173. | 2.0 | 15 |
| 76 | Interfacial Water Facilitates Energy Transfer by Inducing Extended Vibrations in Membrane Lipids. Journal of Physical Chemistry B, 2012, 116, 6455-6460. | 2.6 | 15 |
| 77 | Real space renormalization group approach to spin-glass dynamics. Physical Review B, 2003, 68, . | 3.2 | 14 |
| 78 | Conductivity and spin lattice relaxation in disordered ionic conductors. Journal of Non-Crystalline Solids, 1994, 172-174, 1292-1299. | 3.1 | 13 |
| 79 | Folding and unfolding of a triple-branch DNA molecule with four conformational states. Philosophical Magazine, 2011, 91, 2049-2065. | 1.6 | 13 |
| 80 | Enhanced Autoionization of Water at Phospholipid Interfaces. Journal of Physical Chemistry C, 2013, 117, 510-514. | 3.1 | 13 |
| 81 | Counterintuitive Short Uphill Transitions in Single-File Diffusion. Journal of Physical Chemistry C, 2019, 123, 5714-5720. | 3.1 | 13 |
| 82 | Single-file transport in periodic potentials: The Brownian asymmetric simple exclusion process. Physical Review E, 2019, 100, 052121. | 2.1 | 13 |
| 83 | Anomalous ion transport in glasses. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 415-425. | 2.6 | 12 |
| 84 | SCALING AND UNIVERSALITY IN LIVING SYSTEMS. Fractals, 1996, 04, 427-451. | 3.7 | 12 |
| 85 | Binding energies between unlike atoms determined from island densities. Journal of Applied Physics, 2009, 105, 054312. | 2.5 | 12 |
| 86 | Long-Range Order Induced by Intrinsic Repulsion on an Insulating Substrate. Journal of Physical Chemistry C, 2015, 119, 24927-24931. | 3.1 | 12 |
| 87 | Structural Origin of the Mixed Glass Former Effect in Sodium Borophosphate Glasses Investigated with Neutron Diffraction and Reverse Monte Carlo Modeling. Journal of Physical Chemistry C, 2015, 119, 27275-27284. | 3.1 | 12 |
| 88 | Statistically interacting vacancy particles. Physical Review E, 2014, 89, 012137. | 2.1 | 11 |
| 89 | Frequency-Dependent Conductivity. Ionic Conductivity and Memory Effects in Glassy Electrolytes. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1991, 95, 1002-1006. | 0.9 | 10 |
| 90 | Static and Time Dependent Density Functional Theory with Internal Degrees of Freedom: Merits and Limitations Demonstrated for the Potts Model. Journal of Statistical Physics, 2004, 114, 1115-1125. | 1.2 | 10 |

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|-----|---|-----|-----------|
| 91 | Influence of external magnetic fields on the growth of alloy nanoclusters. Journal of Physics Condensed Matter, 2007, 19, 086227. | 1.8 | 10 |
| 92 | Constant dielectric loss in disordered ionic conductors: Theoretical aspects. Solid State Ionics, 2009, 180, 446-450. | 2.7 | 10 |
| 93 | Exact density functional for hard-rod mixtures derived from Markov chain approach. Physical Review E, 2012, 85, 042107. | 2.1 | 10 |
| 94 | Determining molecule diffusion coefficients on surfaces from a locally fixed probe: Analysis of signal fluctuations. Physical Review B, 2013, 87, . | 3.2 | 10 |
| 95 | Bridging between load-flow and Kuramoto-like power grid models: A flexible approach to integrating electrical storage units. Chaos, 2019, 29, 103151. | 2.5 | 10 |
| 96 | Conductivity versus spin-lattice relaxation: Contrasting behavior in a correlated disordered structure. Journal of Chemical Physics, 1995, 103, 5776-5780. | 3.0 | 9 |
| 97 | Phase Transitions in Brownian Pumps. Physical Review Letters, 2014, 112, 150601. | 7.8 | 9 |
| 98 | A unified model for ion conduction in crystals of γ - and δ -alumina structure. Journal of Chemical Physics, 1998, 109, 2316-2324. | 3.0 | 8 |
| 99 | Hopping dynamics in random energy landscapes: An effective medium approach. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1915-1922. | 0.6 | 8 |
| 100 | Density correlations in lattice gases in contact with a confining wall. Physical Review E, 2000, 61, 422-428. | 2.1 | 8 |
| 101 | Gaussian ellipsoid model for confined polymer systems. Journal of Chemical Physics, 2002, 117, 4564-4577. | 3.0 | 8 |
| 102 | Orbital field distributions and anomalous spin relaxation in disordered magnetic systems. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 200-207. | 2.6 | 8 |
| 103 | Dipolar interactions and constant dielectric loss spectra. European Physical Journal: Special Topics, 2008, 161, 79-96. | 2.6 | 8 |
| 104 | Structure of glassy lithium sulfate films sputtered in nitrogen: Insight from Raman spectroscopy and <i>ab initio</i> calculations. Physical Review B, 2008, 77, . | 3.2 | 8 |
| 105 | Anatomical and spiral wave reentry in a simplified model for atrial electrophysiology. Journal of Theoretical Biology, 2017, 419, 100-107. | 1.7 | 8 |
| 106 | Comment on "Determination of Interlayer Diffusion Parameters for Ag/Ag(111)". Physical Review Letters, 2001, 87, 149605. | 7.8 | 7 |
| 107 | Kinetics in one-dimensional lattice gas and Ising models from time-dependent density-functional theory. Physical Review E, 2002, 65, 066112. | 2.1 | 7 |
| 108 | Quasicrystalline order in binary dipolar systems. European Physical Journal B, 2004, 42, 85-94. | 1.5 | 7 |

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|-----|---|-----|-----------|
| 109 | Dielectric Response in Strongly Disordered Materials: Analytic Approaches. Zeitschrift Fur Physikalische Chemie, 2004, 218, 1375-1384. | 2.8 | 7 |
| 110 | Monodisperse hard rods in external potentials. Physical Review E, 2015, 92, 042112. | 2.1 | 7 |
| 111 | Asymptotics of work distribution for a Brownian particle in a time-dependent anharmonic potential. Physica Scripta, 2015, T165, 014024. | 2.5 | 7 |
| 112 | Emergent colloidal currents across ordered and disordered landscapes. Communications Physics, 2021, 4, . | 5.3 | 7 |
| 113 | NMR relaxation in disordered systems. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 433-437. | 2.6 | 6 |
| 114 | Models for Ion Transport in Amorphous Materials: Recent Advances. Zeitschrift Fur Physikalische Chemie, 2009, 223, 1187-1200. | 2.8 | 6 |
| 115 | Thermodynamics of two-stroke engine based on periodically driven two-level system. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 472-476. | 2.7 | 6 |
| 116 | Interacting hard rods on a lattice: Distribution of microstates and density functionals. Journal of Chemical Physics, 2013, 139, 054113. | 3.0 | 6 |
| 117 | Initiation of atrial fibrillation by interaction of pacemakers with geometrical constraints. Journal of Theoretical Biology, 2015, 366, 13-23. | 1.7 | 6 |
| 118 | Density profiles of a self-gravitating lattice gas in one, two, and three dimensions. Physical Review E, 2018, 97, 042131. | 2.1 | 6 |
| 119 | Statistics of work performed by optical tweezers with general time-variation of their stiffness. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 275001. | 2.1 | 6 |
| 120 | Driven transport of soft Brownian particles through pore-like structures: Effective size method. Journal of Chemical Physics, 2021, 155, 184102. | 3.0 | 6 |
| 121 | Random walk on a linear chain with a quenched distribution of jump lengths. Physical Review E, 1997, 55, 71-78. | 2.1 | 5 |
| 122 | The dynamic structure model and the decoupling of secondary relaxations near the glass transition. Solid State Ionics, 1998, 105, 217-224. | 2.7 | 5 |
| 123 | Equilibrium and non-equilibrium dynamics in random-energy landscapes. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1249-1261. | 0.6 | 5 |
| 124 | Comment on "Radial-Fluctuation-Induced Stabilization of the Ordered State in Two-Dimensional Classical Clusters". Physical Review Letters, 2001, 86, 4711-4711. | 7.8 | 5 |
| 125 | Simulation of MBE-growth of alloy nanoclusters in a magnetic field. Materials Science and Engineering C, 2007, 27, 1325-1327. | 7.3 | 5 |
| 126 | Hydrodynamic Interactions Can Induce Jamming in Flow-Driven Systems. Physical Review Letters, 2021, 127, 214501. | 7.8 | 5 |

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|-----|--|-----|-----------|
| 127 | Effective-Medium Approximation for Energy-Dependent Hopping on a Lattice. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 93-97. | 1.5 | 4 |
| 128 | Influence of adatom interactions on second-layer nucleation. <i>Physical Review B</i> , 2002, 66, . | 3.2 | 4 |
| 129 | Spin precession in disordered systems: Anomalous relaxation due to heavy-tailed field distributions. <i>Europhysics Letters</i> , 2003, 62, 439-445. | 2.0 | 4 |
| 130 | Aging in the shear-transformation-zone theory of plastic deformation. <i>Physical Review E</i> , 2008, 78, 056109. | 2.1 | 4 |
| 131 | Dynamics and energetics for a molecular zipper model under external driving. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P11009. | 2.3 | 4 |
| 132 | Self-consistent rate theory for submonolayer surface growth of multicomponent systems. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 4 |
| 133 | On asymptotic behavior of work distributions for driven Brownian motion. <i>European Physical Journal B</i> , 2015, 88, 1. | 1.5 | 4 |
| 134 | Stress-stress fluctuation formula for elastic constants in the $\langle \mathbf{m} \mathbf{m}^T \rangle$ ensemble. <i>Physical Review E</i> , 2018, 97, 053002. | 2.1 | 4 |
| 135 | Complex oscillation modes in the Belousov-Zhabotinsky reaction by weak diffusive coupling. <i>Physical Review E</i> , 2019, 99, 022202. | 2.1 | 4 |
| 136 | Nonequilibrium Transport and Phase Transitions in Driven Diffusion of Interacting Particles. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2020, 75, 449-463. | 1.5 | 4 |
| 137 | A New Approach to Simulate the Morphology of Thin Films. <i>Europhysics Letters</i> , 1993, 24, 569-574. | 2.0 | 3 |
| 138 | Percolation effects in mixed Al_2O_3 -alumina crystals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 197-202. | 2.6 | 3 |
| 139 | Coherent backscattering of electromagnetic waves in random media. <i>Europhysics Letters</i> , 2012, 98, 14005. | 2.0 | 3 |
| 140 | Diffusion Coefficients from Signal Fluctuations: Influence of Molecular Shape and Rotational Diffusion. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2237-2243. | 2.5 | 3 |
| 141 | Growth kinetics of racemic heptahelicene-2-carboxylic acid nanowires on calcite (104). <i>Journal of Chemical Physics</i> , 2016, 145, 134702. | 3.0 | 3 |
| 142 | Cycle Completion Times Probe Interactions with Environment. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6887-6891. | 4.6 | 3 |
| 143 | Nearly Constant Loss Spectra in Glasses: Dipolar Interaction Effects. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 2 |
| 144 | Irregular excitation patterns in reaction-diffusion systems due to perturbation by secondary pacemakers. <i>Physical Review E</i> , 2013, 87, 042904. | 2.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Network-Forming Units, Energy Landscapes, and Conductivity Activation Energies in Alkali Borophosphate Glasses: Analytical Approaches. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6260-6268. | 3.1 | 2 |
| 146 | Modeling specific action potentials in the human atria based on a minimal single-cell model. <i>PLoS ONE</i> , 2018, 13, e0190448. | 2.5 | 2 |
| 147 | Hopping in a rearranging structure. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 609-620. | 0.6 | 1 |
| 148 | Random flights with quenched noise amplitudes. , 1999, , 61-76. | | 1 |
| 149 | Unfolding kinetics of periodic DNA hairpins. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 205102. | 1.8 | 1 |
| 150 | Collective particle transport in a peristaltic ratchet system. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012184. | 0.4 | 1 |
| 151 | Molecular Self-Assembly: Quantifying the Balance between Intermolecular Attraction and Repulsion from Distance and Length Distributions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21583-21590. | 3.1 | 1 |
| 152 | Molecular Stripe Patterns on Surfaces in the Presence of Long-Range Repulsive Electrostatic Interactions: Monte Carlo Simulations and Mean-Field Theory. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20650-20657. | 3.1 | 1 |
| 153 | STOCHASTIC MODELING OF ION DYNAMICS IN GLASSES. , 2002, , . | | 1 |
| 154 | Predicting conductivities of alkali borophosphate glasses based on site energy distributions derived from network former unit concentrations. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021, . | 2.8 | 1 |
| 155 | Aging, Rejuvenation and Memory Effects in Systems far from Equilibrium. <i>AIP Conference Proceedings</i> , 2008, , . | 0.4 | 0 |
| 156 | Diffusion and Cluster Growth of Binary Alloys on Surfaces. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 355-376. | 2.8 | 0 |
| 157 | Determination of diffusion tensors from oscillating and circulating scanning probe tips. <i>Europhysics Letters</i> , 2015, 110, 66003. | 2.0 | 0 |
| 158 | Optimized Adjustment of Single Action-potentials to Case-specific Atrial Physiology: Towards Clinical Implementation. , 0, , . | | 0 |
| 159 | (Invited) Second-Layer Growth Kinetics As a Decisive Factor for Non-Equilibrium Thin-Film Morphologies. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1140-1140. | 0.0 | 0 |