Giancarlo Ruocco

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3718499/publications.pdf

Version: 2024-02-01

459 papers

15,854 citations

64 h-index 28297 105 g-index

476 all docs

476 docs citations

476 times ranked

9476 citing authors

| # | Article | IF | CITATIONS |
|----|--|--------------|-----------|
| 1 | Bacterial ratchet motors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9541-9545. | 7.1 | 559 |
| 2 | The Widom line as the crossover between liquid-like and gas-like behaviour in supercriticalÂfluids. Nature Physics, 2010, 6, 503-507. | 16.7 | 418 |
| 3 | Computer generation of optimal holograms for optical trap arrays. Optics Express, 2007, 15, 1913. | 3.4 | 406 |
| 4 | Dynamics of Glasses and Glass-Forming Liquids Studied by Inelastic X-ray Scattering. Science, 1998, 280, 1550-1555. | 12.6 | 315 |
| 5 | Microscopic dynamics in liquid metals: The experimental point of view. Reviews of Modern Physics, 2005, 77, 881-933. | 45. 6 | 288 |
| 6 | Is the Fragility of a Liquid Embedded in the Properties of Its Glass?. Science, 2003, 302, 849-852. | 12.6 | 274 |
| 7 | Acoustic Attenuation in Glasses and its Relation with the Boson Peak. Physical Review Letters, 2007, 98, 025501. | 7.8 | 261 |
| 8 | Brillouin microscopy: an emerging tool for mechanobiology. Nature Methods, 2019, 16, 969-977. | 19.0 | 244 |
| 9 | Collective Dynamics in Water by High Energy Resolution Inelastic X-Ray Scattering. Physical Review Letters, 1995, 75, 850-853. | 7.8 | 241 |
| 10 | Self-Starting Micromotors in a Bacterial Bath. Physical Review Letters, 2009, 102, 048104. | 7.8 | 227 |
| 11 | Saddles in the Energy Landscape Probed by Supercooled Liquids. Physical Review Letters, 2000, 85, 5356-5359. | 7.8 | 211 |
| 12 | Shocks in Nonlocal Media. Physical Review Letters, 2007, 99, 043903. | 7.8 | 194 |
| 13 | Evidence of High Frequency Propagating Modes in Vitreous Silica. Physical Review Letters, 1996, 77, 3835-3838. | 7.8 | 191 |
| 14 | Transition fromNormaltoFastSound in Liquid Water. Physical Review Letters, 1996, 77, 83-86. | 7.8 | 175 |
| 15 | Viscoelastic behavior of water in the terahertz-frequency range: An inelastic x-ray scattering study. Physical Review E, 1999, 60, 5505-5521. | 2.1 | 159 |
| 16 | Amorphous silica-like carbon dioxide. Nature, 2006, 441, 857-860. | 27.8 | 153 |
| 17 | Heterogeneous shear elasticity of glasses: the origin of the boson peak. Scientific Reports, 2013, 3, 1407. | 3.3 | 151 |
| 18 | A perfect crystal X-ray analyser with meV energy resolution. Nuclear Instruments & Methods in Physics Research B, 1996, 111, 181-186. | 1.4 | 141 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Mixing of Longitudinal and Transverse Dynamics in Liquid Water. Physical Review Letters, 1997, 79, 1678-1681. | 7.8 | 138 |
| 20 | Comparison of Faxén's correction for a microsphere translating or rotating near a surface. Physical Review E, 2009, 79, 026301. | 2.1 | 137 |
| 21 | Routes to Gelation in a Clay Suspension. Physical Review Letters, 2004, 93, 258301. | 7.8 | 136 |
| 22 | Observation of a Gradient Catastrophe Generating Solitons. Physical Review Letters, 2009, 102, 083902. | 7.8 | 136 |
| 23 | More on the Phase Diagram of Laponite. Langmuir, 2006, 22, 1106-1111. | 3.5 | 131 |
| 24 | X-ray Monochromator with 2 $\tilde{A}-108$ Energy Resolution. Journal of Synchrotron Radiation, 1996, 3, 62-64. | 2.4 | 126 |
| 25 | Dynamically Correlated Regions and Configurational Entropy in Supercooled Liquids. Journal of Physical Chemistry B, 2008, 112, 10652-10658. | 2.6 | 126 |
| 26 | Connected Network of Minima as a Model Glass: Long Time Dynamics. Physical Review Letters, 1998, 81, 4648-4651. | 7.8 | 124 |
| 27 | Equivalence of the sound velocity in water and ice at mesoscopic wavelengths. Nature, 1996, 379, 521-523. | 27.8 | 120 |
| 28 | Inflammation, neurodegeneration and protein aggregation in the retina as ocular biomarkers for Alzheimer's disease in the 3xTg-AD mouse model. Cell Death and Disease, 2018, 9, 685. | 6.3 | 120 |
| 29 | Low-frequency atomic motion in a model glass. Europhysics Letters, 1996, 34, 681-686. | 2.0 | 108 |
| 30 | The high-frequency dynamics of liquid water. Journal of Physics Condensed Matter, 1999, 11, R259-R293. | 1.8 | 108 |
| 31 | High-frequency longitudinal and transverse dynamics in water. Physical Review E, 2005, 71, 011501. | 2.1 | 106 |
| 32 | Relaxation Processes in Harmonic Glasses?. Physical Review Letters, 2000, 84, 5788-5791. | 7.8 | 103 |
| 33 | Observation of Large Momentum Phononlike Modes in Glasses. Physical Review Letters, 1996, 76, 3356-3359. | 7.8 | 102 |
| 34 | Glass–glass transition during aging of a colloidal clay. Nature Communications, 2014, 5, 4049. | 12.8 | 101 |
| 35 | Evidence for a Crossover in the Frequency Dependence of the Acoustic Attenuation in Vitreous Silica. Physical Review Letters, 2006, 97, 035501. | 7.8 | 100 |
| 36 | Liquidlike Behavior of Supercritical Fluids. Physical Review Letters, 2006, 97, 245702. | 7.8 | 98 |

| # | Article | IF | Citations |
|----|---|-----|-----------|
| 37 | Neuroinflammatory Processes, A1 Astrocyte Activation and Protein Aggregation in the Retina of Alzheimer's Disease Patients, Possible Biomarkers for Early Diagnosis. Frontiers in Neuroscience, 2019, 13, 925. | 2.8 | 98 |
| 38 | Optical Spatial Solitons in Soft Matter. Physical Review Letters, 2005, 95, 183902. | 7.8 | 97 |
| 39 | The history of the "fast sound" in liquid water. Condensed Matter Physics, 2008, 11, 29. | 0.7 | 96 |
| 40 | The Raman coupling function in amorphous silica and the nature of the long-wavelength excitations in disordered systems. Europhysics Letters, 1999, 47, 56-62. | 2.0 | 88 |
| 41 | Off-Equilibrium Effective Temperature in Monatomic Lennard-Jones Glass. Physical Review Letters, 2000, 84, 6054-6057. | 7.8 | 87 |
| 42 | Condensation in Disordered Lasers: Theory, <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>3</mml:mn><mml:mi mathvariant="normal">D</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> Simulations, and Experiments. Physical Review Letters, 2008, 101, 143901. | 7.8 | 87 |
| 43 | A perfect crystal X-ray analyser with $1.5~\rm meV$ energy resolution. Nuclear Instruments & Methods in Physics Research B, 1996, 117, 339-340. | 1.4 | 86 |
| 44 | Nondynamic Origin of the High-Frequency Acoustic Attenuation in Glasses. Physical Review Letters, 1999, 83, 5583-5586. | 7.8 | 86 |
| 45 | Landscapes and fragilities. Journal of Chemical Physics, 2004, 120, 10666-10680. | 3.0 | 85 |
| 46 | Density fluctuations in molten lithium: inelastic x-ray scattering study. Journal of Physics Condensed Matter, 2000, 12, 8009-8034. | 1.8 | 83 |
| 47 | Analysis of the network topology in liquid water and hydrogen sulphide by computer simulation. Journal of Chemical Physics, 1992, 96, 6167-6176. | 3.0 | 82 |
| 48 | Evidence of Two Viscous Relaxation Processes in the Collective Dynamics of Liquid Lithium. Physical Review Letters, 2000, 85, 4076-4079. | 7.8 | 80 |
| 49 | Glassy Behavior of Light. Physical Review Letters, 2006, 96, 065702. | 7.8 | 80 |
| 50 | Highâ€resolution lowâ€frequency Raman spectra of liquid H2O and D2O. Journal of Chemical Physics, 1990, 93, 7767-7773. | 3.0 | 79 |
| 51 | Competing Interactions in Arrested States of Colloidal Clays. Physical Review Letters, 2010, 104, 085701. | 7.8 | 78 |
| 52 | 3D models in the new era of immune oncology: focus on T cells, CAF and ECM. Journal of Experimental and Clinical Cancer Research, 2019, 38, 117. | 8.6 | 78 |
| 53 | Fast sound in liquid water. Physical Review E, 1993, 47, 1677-1684. | 2.1 | 77 |
| 54 | Diffraction-free light droplets for axially-resolved volume imaging. Scientific Reports, 2017, 7, 17. | 3.3 | 73 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Experimental Determination of the Structural Relaxation in Liquid Water. Physical Review Letters, 1999, 82, 775-778. | 7.8 | 71 |
| 56 | Topological signature of first-order phase transitions in a mean-field model. Europhysics Letters, 2003, 62, 775-781. | 2.0 | 71 |
| 57 | Evidence of anomalous dispersion of the generalized sound velocity in glasses. Physical Review B, 2004, 69, . | 3.2 | 71 |
| 58 | High Frequency Sound Waves in Vitreous Silica. Physical Review Letters, 1998, 80, 1236-1239. | 7.8 | 70 |
| 59 | Colloidal Attraction Induced by a Temperature Gradient. Langmuir, 2009, 25, 4247-4250. | 3.5 | 70 |
| 60 | Theoretical and computer-simulation study of the density fluctuations in liquid water. Physical Review A, 1989, 40, 7226-7238. | 2.5 | 69 |
| 61 | High-frequency vibrational dynamics in glasses. Journal of Physics Condensed Matter, 2001, 13, 9141-9164. | 1.8 | 69 |
| 62 | Dynamics and Thermodynamics beyond the critical point. Scientific Reports, 2013, 3, 1203. | 3.3 | 69 |
| 63 | Nature of the Short Wavelength Excitations in Vitreous Silica: An X-Ray Brillouin Scattering Study. Physical Review Letters, 2000, 85, 2136-2139. | 7.8 | 68 |
| 64 | Collective dynamics of liquid aluminum probed by inelastic x-ray scattering. Physical Review E, 2000, 63, . | 2.1 | 67 |
| 65 | Multipoint Holographic Optical Velocimetry in Microfluidic Systems. Physical Review Letters, 2006, 96, 134502. | 7.8 | 64 |
| 66 | Dichotomic aging behaviour in a colloidal glass. Soft Matter, 2013, 9, 10955. | 2.7 | 63 |
| 67 | Computer simulation of polarizable fluids: a consistent and fast way for dealing with polarizability and hyperpolarizability. Molecular Physics, 1994, 82, 875-886. | 1.7 | 62 |
| 68 | High Frequency Dynamics of Glass Forming Liquids at the Glass Transition. Physical Review Letters, 1998, 80, 544-547. | 7.8 | 62 |
| 69 | Inelastic x-ray scattering study of the collective dynamics in liquid sodium. Physical Review E, 2002, 65, 031205. | 2.1 | 62 |
| 70 | Vibrational excitations in systems with correlated disorder. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 862-866. | 0.8 | 61 |
| 71 | Phase Diagram and Complexity of Mode-Locked Lasers: From Order to Disorder. Physical Review Letters, 2009, 102, 083901. | 7.8 | 61 |
| 72 | Molecular dynamics simulation of the fragile glass-former orthoterphenyl: A flexible molecule model. Physical Review E, 2000, 62, 612-630. | 2.1 | 60 |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 73 | Pressure Evolution of the High-Frequency Sound Velocity in Liquid Water. Physical Review Letters, 2002, 89, 125502. | 7.8 | 60 |
| 74 | Parametric Resonance of Optically Trapped Aerosols. Physical Review Letters, 2007, 99, 010601. | 7.8 | 60 |
| 75 | Glass transition and density fluctuations in the fragile glass former orthoterphenyl. Physical Review E, 2001, 63, 061502. | 2.1 | 59 |
| 76 | Arrested state of clay-water suspensions: Gel or glass?. Physical Review E, 2008, 77, 020402. | 2.1 | 59 |
| 77 | High-frequency propagating modes in vitreous silica at 295 K. Physical Review B, 1997, 55, 8049-8051. | 3.2 | 58 |
| 78 | High-Frequency Dynamics in Metallic Glasses. Physical Review Letters, 2006, 96, 135501. | 7.8 | 57 |
| 79 | In-Silico Evidence for a Two Receptor Based Strategy of SARS-CoV-2. Frontiers in Molecular Biosciences, 2021, 8, 690655. | 3.5 | 57 |
| 80 | Size effects and quasilocalized vibrations. Philosophical Magazine, 2004, 84, 1361-1372. | 1.6 | 55 |
| 81 | Molecular dynamics results for stretched water. Journal of Chemical Physics, 1993, 99, 8095-8104. | 3.0 | 54 |
| 82 | Transport of self-propelling bacteria in micro-channel flow. Journal of Physics Condensed Matter, 2012, 24, 065101. | 1.8 | 54 |
| 83 | MLL4-associated condensates counterbalance Polycomb-mediated nuclear mechanical stress in Kabuki syndrome. Nature Genetics, 2020, 52, 1397-1411. | 21.4 | 53 |
| 84 | The low energy excess of vibrational states in v-SiO2: the role of transverse dynamics. Journal of Physics Condensed Matter, 2004, 16, 8519-8530. | 1.8 | 52 |
| 85 | Microglia-Derived Microvesicles Affect Microglia Phenotype in Glioma. Frontiers in Cellular Neuroscience, 2019, 13, 41. | 3.7 | 52 |
| 86 | Determination of the Infinite Frequency Sound Velocity in the Glass Formero-Terphenyl. Physical Review Letters, 1998, 80, 2161-2164. | 7.8 | 51 |
| 87 | Collective excitations in supercritical fluids: Analytical and molecular dynamics study of "positive― and "negative―dispersion. Journal of Chemical Physics, 2010, 133, 024502. | 3.0 | 51 |
| 88 | Single-Molecule Imaging with X-Ray Free-Electron Lasers: Dream or Reality?. Physical Review Letters, 2011, 106, 105504. | 7.8 | 51 |
| 89 | Acoustic dynamics of network-forming glasses at mesoscopic wavelengths. Nature Communications, 2013, 4, 1793. | 12.8 | 51 |
| 90 | Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids. Journal of Chemical Physics, 2002, 116, 10297-10306. | 3.0 | 50 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Structural Relaxation in Liquid Water by Inelastic UV Scattering. Physical Review Letters, 2004, 92, 255507. | 7.8 | 50 |
| 92 | On the analysis of the vibrational Boson peak and low-energy excitations in glasses. Journal of Non-Crystalline Solids, 2006, 352, 4541-4551. | 3.1 | 50 |
| 93 | Three-dimensional <i>ab initio</i> investigation of light-matter interaction in Mie lasers. Physical Review A, 2008, 78, . | 2.5 | 50 |
| 94 | A new class of multiple dispersion grating spectrometers. Journal of Physics E: Scientific Instruments, 1988, 21, 798-804. | 0.7 | 49 |
| 95 | High-frequency dynamics of glass-forming polybutadiene. Physical Review E, 1999, 59, 4470-4475. | 2.1 | 49 |
| 96 | General features of the energy landscape in Lennard-Jones-like model liquids. Journal of Chemical Physics, 2003, 119, 2120-2126. | 3.0 | 49 |
| 97 | Elastic properties of permanently densified silica: A Raman, Brillouin light, and x-ray scattering study. Physical Review B, 2010, 81, . | 3.2 | 49 |
| 98 | Numerical study of Raman scattering from fractals. Physical Review Letters, 1990, 65, 1136-1139. | 7.8 | 48 |
| 99 | Contrasting behaviour of acoustic modes in network and non-network glasses. Europhysics Letters, 2001, 54, 77-83. | 2.0 | 47 |
| 100 | High-Frequency Acoustic Modes in Liquid Gallium at the Melting Point. Physical Review Letters, 2002, 89, 255506. | 7.8 | 47 |
| 101 | Eigenmodes of a hydrodynamically coupled micron-size multiple-particle ring. Physical Review E, 2007, 76, 061402. | 2.1 | 47 |
| 102 | Spatio-temporal anomalous diffusion in heterogeneous media by nuclear magnetic resonance. Journal of Chemical Physics, 2011, 135, 034504. | 3.0 | 47 |
| 103 | Potential energy landscape and long-time dynamics in a simple model glass. Physical Review E, 2000, 61, 1681-1691. | 2.1 | 46 |
| 104 | Microscopic relaxation in supercritical and liquid neon. Journal of Chemical Physics, 2001, 114, 2259-2267. | 3.0 | 46 |
| 105 | High Frequency Dynamics in a Monatomic Glass. Physical Review Letters, 2004, 92, 025503. | 7.8 | 46 |
| 106 | Free-Energy Transition in a Gas of Noninteracting Nonlinear Wave Particles. Physical Review Letters, 2008, 101, 044101. | 7.8 | 46 |
| 107 | Kinetics of formation of supramolecular tubules of a sodium cholate derivative. Soft Matter, 2009, 5, 3018. | 2.7 | 46 |
| 108 | Theory of vibrational anomalies in glasses. Journal of Non-Crystalline Solids, 2015, 407, 133-140. | 3.1 | 46 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Probing the non-Debye low-frequency excitations in glasses through random pinning. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8700-8704. | 7.1 | 46 |
| 110 | Glassy behavior of light in random lasers. Physical Review B, 2006, 74, . | 3.2 | 45 |
| 111 | Behavior of Supercritical Fluids across the "Frenkel Line― Journal of Physical Chemistry Letters, 2017, 8, 4995-5001. | 4.6 | 45 |
| 112 | Background-deflection Brillouin microscopy reveals altered biomechanics of intracellular stress granules by ALS protein FUS. Communications Biology, 2018, 1, 139. | 4.4 | 45 |
| 113 | Raman spectra of water in the translational and librational regions. Molecular Physics, 1989, 67, 19-31. | 1.7 | 44 |
| 114 | Fast Relaxational Dynamics in theo-Terphenyl Glass. Physical Review Letters, 1999, 82, 1776-1779. | 7.8 | 43 |
| 115 | Structural disorder and anomalous diffusion in random packing of spheres. Scientific Reports, 2013, 3, 2631. | 3.3 | 41 |
| 116 | Disorder-induced light scattering in solids: Microscopic theory and applications to some model systems. Physical Review B, 1991, 44, 11734-11742. | 3.2 | 40 |
| 117 | Hydrodynamic interactions in two dimensions. Physical Review E, 2008, 78, 031406. | 2.1 | 40 |
| 118 | Raman spectra of water in the translational and librational regions. Molecular Physics, 1987, 61, 1199-1212. | 1.7 | 39 |
| 119 | Low-frequency Raman spectra of liquid water: A molecular dynamics simulation. Chemical Physics Letters, 1989, 159, 383-387. | 2.6 | 39 |
| 120 | Origin of the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>î»</mml:mi></mml:math> Transition in Liquid Sulfur. Physical Review Letters, 2007, 99, 025701. | 7.8 | 39 |
| 121 | Structural and microscopic relaxations in a colloidal glass. Soft Matter, 2015, 11, 466-471. | 2.7 | 39 |
| 122 | Perspectives on cavitation enhanced endothelial layer permeability. Colloids and Surfaces B: Biointerfaces, 2018, 168, 83-93. | 5.0 | 39 |
| 123 | Molecular Mechanisms Behind Anti SARS-CoV-2 Action of Lactoferrin. Frontiers in Molecular Biosciences, 2021, 8, 607443. | 3.5 | 39 |
| 124 | Topological Description of the Aging Dynamics in Simple Glasses. Physical Review Letters, 2001, 87, 055502. | 7.8 | 37 |
| 125 | Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustics approach. Applied Physics Letters, 2011, 98, 011901. | 3.3 | 37 |
| 126 | Heterogeneous Viscoelasticity: A Combined Theory of Dynamic and Elastic Heterogeneity. Physical Review Letters, 2015, 115, 015901. | 7.8 | 37 |

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 127 | Disorder-induced single-mode transmission. Nature Communications, 2017, 8, 14571. | 12.8 | 37 |
| 128 | Temperature evolution of single particle correlation functions of liquid water. Journal of Chemical Physics, 1990, 92, 2540-2547. | 3.0 | 36 |
| 129 | Very-Long-Range Nature of Capillary Interactions in Liquid Films. Physical Review Letters, 2008, 100, 106103. | 7.8 | 36 |
| 130 | Ultrashort pulse propagation and the Anderson localization. Optics Letters, 2009, 34, 130. | 3.3 | 36 |
| 131 | Ergodic to non-ergodic transition in low concentration Laponite. Journal of Physics Condensed Matter, 2004, 16, S4993-S5002. | 1.8 | 35 |
| 132 | Hard-Sphere-like Dynamics in a Non-Hard-Sphere Liquid. Physical Review Letters, 2005, 94, 155301. | 7.8 | 35 |
| 133 | Thermal conductivity and terahertz vibrational dynamics of vitreous silica. Physical Review B, 2008, 77, . | 3.2 | 35 |
| 134 | Cancellation of Bessel beam side lobes for high-contrast light sheet microscopy. Scientific Reports, 2018, 8, 17178. | 3.3 | 35 |
| 135 | Raman scattering from fractals: Simulation on large structures by the method of moments. Physical Review B, 1995, 52, 3346-3355. | 3.2 | 34 |
| 136 | Adiabatic and isothermal sound waves: The case of supercritical nitrogen. Europhysics Letters, 2006, 75, 70-76. | 2.0 | 34 |
| 137 | Universal relation between viscous flow and fast dynamics in glass-forming materials. Physical Review B, 2010, 81 , . | 3.2 | 34 |
| 138 | Structural and dynamical consequences of density variation in vitreous silica. Journal of Physics Condensed Matter, 2003, 15, S995-S1005. | 1.8 | 33 |
| 139 | Collective dynamics in water by inelastic x-rays scattering. Physica Scripta, 1996, T66, 48-56. | 2.5 | 33 |
| 140 | Raman spectra of water in the translational and librational region. Molecular Physics, 1987, 62, 1467-1481. | 1.7 | 32 |
| 141 | Collective Dynamical Properties of Liquid Water. Physical Review Letters, 1988, 61, 1958-1961. | 7.8 | 32 |
| 142 | Vibrational dynamics and Raman scattering in fractals: A numerical study. Physical Review B, 1992, 45, 2126-2137. | 3.2 | 32 |
| 143 | Acoustic nature of the boson peak in vitreous silica. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2013-2020. | 0.6 | 32 |
| 144 | High-frequency dynamics of liquid and supercritical water. Physical Review E, 2007, 75, 051202. | 2.1 | 32 |

| # | Article | IF | Citations |
|-----|--|------|-----------|
| 145 | Relation among optical, thermal and thermo-optical properties and niobium concentration in tellurite glasses. Journal of Non-Crystalline Solids, 2010, 356, 2146-2150. | 3.1 | 32 |
| 146 | Vibrational dynamics and surface structure of amorphous selenium. Nature Communications, 2011, 2, 195. | 12.8 | 32 |
| 147 | Pressure-induced emergence of unusually high-frequency transverse excitations in a liquid alkali metal: Evidence of two types of collective excitations contributing to the transverse dynamics at high pressures. Journal of Chemical Physics, 2015, 143, 104502. | 3.0 | 32 |
| 148 | Phonon-like and single-particle dynamics in liquid lithium. Europhysics Letters, 2000, 50, 189-195. | 2.0 | 31 |
| 149 | Topology and phase transitions: From an exactly solvable model to a relation between topology and thermodynamics. Physical Review E, 2005, 71, 036152. | 2.1 | 31 |
| 150 | Light diffusion and localization in three-dimensional nonlinear disordered media. Physical Review A, 2007, 75, . | 2.5 | 31 |
| 151 | Aging after shear rejuvenation in a soft glassy colloidal suspension: Evidence for two different regimes. Physical Review E, 2007, 75, 011408. | 2.1 | 31 |
| 152 | High frequency dynamics in liquids and supercritical fluids: A comparative inelastic x-ray scattering study. Journal of Chemical Physics, 2009, 130, 064501. | 3.0 | 31 |
| 153 | Coherent potential approximation for diffusion and wave propagation in topologically disordered systems. Physical Review B, 2013, 88, . | 3.2 | 31 |
| 154 | Induced contributions in the rayleigh spectra of water: A molecular dynamics simulation. Chemical Physics Letters, 1987, 141, 297-300. | 2.6 | 30 |
| 155 | On the Maximum Storage Capacity of the Hopfield Model. Frontiers in Computational Neuroscience, 2016, 10, 144. | 2.1 | 30 |
| 156 | Structural and Microscopic Relaxation Processes in Liquid Hydrogen Fluoride. Physical Review Letters, 2002, 88, 255503. | 7.8 | 29 |
| 157 | Structural and Collisional Relaxations in Liquids and Supercritical Fluids. Physical Review Letters, 2007, 98, 085501. | 7.8 | 29 |
| 158 | High-frequency transverse dynamics in glasses. Journal of Physics Condensed Matter, 2003, 15, S1269-S1278. | 1.8 | 28 |
| 159 | Ageing dynamics in Laponite dispersions at various salt concentrations. Philosophical Magazine, 2007, 87, 449-458. | 1.6 | 28 |
| 160 | Dynamical Crossover at the Liquid-Liquid Transformation of a Compressed Molten Alkali Metal. Physical Review Letters, 2013, 111, 077801. | 7.8 | 28 |
| 161 | Pressure-Induced In-Glass Structural Transformation in the Amorphous Polymer Poly(methylmethacrylate). Physical Review Letters, 1998, 80, 4205-4208. | 7.8 | 27 |
| 162 | Evidence of short-time dynamical correlations in simple liquids. Physical Review E, 2002, 66, 031205. | 2.1 | 27 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Generalized fluctuation-dissipation relation and effective temperature in off-equilibrium colloids. Physical Review B, 2010, 81, . | 3.2 | 27 |
| 164 | Biophysical modeling of C. elegans neurons: Single ion currents and whole-cell dynamics of AWCon and RMD. PLoS ONE, 2019, 14, e0218738. | 2.5 | 27 |
| 165 | 2D Zernike polynomial expansion: Finding the protein-protein binding regions. Computational and Structural Biotechnology Journal, 2021, 19, 29-36. | 4.1 | 27 |
| 166 | Experimental Evidence of the Acousticlike Character of the High Frequency Excitations in Glasses. Physical Review Letters, 2000, 85, 1266-1269. | 7.8 | 26 |
| 167 | Aging under shear: Structural relaxation of a non-Newtonian fluid. Physical Review E, 2005, 71, 011505. | 2.1 | 26 |
| 168 | Effect of dilution in asymmetric recurrent neural networks. Neural Networks, 2018, 104, 50-59. | 5.9 | 26 |
| 169 | Acoustic-phonon dispersion in CdTe at 7.5 GPa. Physical Review B, 1997, 56, 8691-8694. | 3.2 | 25 |
| 170 | Frustration and Sound Attenuation in Structural Glasses. Physical Review Letters, 2000, 84, 4874-4877. | 7.8 | 25 |
| 171 | Laser Beam Filamentation in Fractal Aggregates. Physical Review Letters, 2006, 97, 123903. | 7.8 | 25 |
| 172 | Nonergodicity Factor, Fragility, and Elastic Properties of Polymeric Glassy Sulfur. Journal of Physical Chemistry B, 2011, 115, 14052-14063. | 2.6 | 25 |
| 173 | Exploring the Association Between Sialic Acid and SARS-CoV-2 Spike Protein Through a Molecular Dynamics-Based Approach. Frontiers in Medical Technology, 2020, 2, 614652. | 2.5 | 25 |
| 174 | Characterizing Hydropathy of Amino Acid Side Chain in a Protein Environment by Investigating the Structural Changes of Water Molecules Network. Frontiers in Molecular Biosciences, 2021, 8, 626837. | 3.5 | 25 |
| 175 | On the connection between low frequency vibrational and relaxational motion in glasses. Journal of Non-Crystalline Solids, 1996, 203, 12-18. | 3.1 | 24 |
| 176 | Line broadening in the collective dynamics of liquid and solid water. Physical Review B, 1996, 54, 14892-14895. | 3.2 | 24 |
| 177 | Dynamics of Dense Supercritical Neon at the Transition from Hydrodynamical to Single-Particle Regimes. Physical Review Letters, 1998, 80, 3515-3518. | 7.8 | 24 |
| 178 | Topological properties of the mean-field 4model. Physical Review E, 2004, 70, 041101. | 2.1 | 24 |
| 179 | Collective excitations in soft-sphere fluids. Physical Review E, 2014, 90, 042301. | 2.1 | 24 |
| 180 | Evolution from ordinary to fast sound in water at room temperature. Chemical Physics Letters, 1993, 209, 408-416. | 2.6 | 23 |

| # | Article | IF | Citations |
|-----|--|-----|-----------|
| 181 | Brillouin and Umklapp scattering in polybutadiene: Comparison of neutron and x-ray scattering. Physical Review E, 1999, 60, R2464-R2467. | 2.1 | 23 |
| 182 | Molecular dynamics simulation of the fragile glass former orthoterphenyl: A flexible molecule model. II. Collective dynamics. Physical Review E, 2001, 64, 021511. | 2.1 | 23 |
| 183 | Collective dynamics in molten potassium:â€,An inelastic x-ray scattering study. Journal of Chemical Physics, 2004, 120, 8089-8094. | 3.0 | 23 |
| 184 | The Raman coupling function in disordered solids: a light and neutron scattering study on glasses of different fragility. Journal of Physics Condensed Matter, 2007, 19, 205145. | 1.8 | 23 |
| 185 | Influence of an adsorbing polymer on the aging dynamics of Laponite clay suspensions. Philosophical Magazine, 2008, 88, 4213-4221. | 1.6 | 23 |
| 186 | Dynamic light scattering study of temperature and pH sensitive colloidal microgels. Journal of Non-Crystalline Solids, 2015, 407, 361-366. | 3.1 | 23 |
| 187 | What is the Right Theory for Anderson Localization of Light? An Experimental Test. Physical Review Letters, 2018, 120, 067401. | 7.8 | 23 |
| 188 | Does blood type affect the COVID-19 infection pattern? PLoS ONE, 2021, 16, e0251535. | 2.5 | 23 |
| 189 | Energy landscape, two-level systems, and entropy barriers in Lennard-Jones clusters. Physical Review B, 1999, 60, 3200-3205. | 3.2 | 22 |
| 190 | Intramolecular origin of the fast relaxations observed in the Brillouin light scattering spectra of molecular glass formers. Physical Review E, 2000, 62, R7595-R7598. | 2.1 | 22 |
| 191 | The potential energy landscape in the Lennard-Jones binary mixture model. Journal of Physics Condensed Matter, 2003, 15, S1227-S1236. | 1.8 | 22 |
| 192 | Collective Thermal Diffusion of Silica Colloids Studied by Nonlinear Optics. Langmuir, 2009, 25, 12495-12500. | 3.5 | 22 |
| 193 | Computer simulation study of thermodynamic scaling of dynamics of 2Ca(NO3)2·3KNO3. Journal of Chemical Physics, 2011, 135, 164510. | 3.0 | 22 |
| 194 | Do social sciences and humanities behave like life and hard sciences?. Scientometrics, 2017, 112, 607-653. | 3.0 | 22 |
| 195 | C. elegans-based chemosensation strategy for the early detection of cancer metabolites in urine samples. Scientific Reports, 2021, 11, 17133. | 3.3 | 22 |
| 196 | Isotropic induced scattering in liquid H2S. Molecular Physics, 1983, 50, 1083-1087. | 1.7 | 21 |
| 197 | Benassiet al.Reply. Physical Review Letters, 1997, 78, 4670-4670. | 7.8 | 21 |
| 198 | Generalized fluctuation relation and effective temperatures in a driven fluid. Physical Review E, 2005, 71, 020101. | 2.1 | 21 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Vibrational anomalies and marginal stability of glasses. European Physical Journal: Special Topics, 2013, 216, 83-93. | 2.6 | 21 |
| 200 | Beyond the Maximum Storage Capacity Limit in Hopfield Recurrent Neural Networks. Entropy, 2019, 21, 726. | 2.2 | 21 |
| 201 | Spatial organization of hydrophobic and charged residues affects protein thermal stability and binding affinity. Scientific Reports, 2022, 12, . | 3.3 | 21 |
| 202 | Theoretical model for the temperature dependence of Raman scattering inl±-Agl. Physical Review B, 1982, 26, 2216-2223. | 3.2 | 20 |
| 203 | Evaluation of brillouin scattering intensities from rare gas crystals. Molecular Physics, 1987, 61, 1391-1414. | 1.7 | 20 |
| 204 | Low frequency polarized and depolarized light scattering in Hâ€bonded liquids: CH3(CH2)nâ^'1OH (n=1,,5). Journal of Chemical Physics, 1989, 91, 6752-6757. | 3.0 | 20 |
| 205 | Fluctuations of Entropy Production in the Isokinetic Ensemble. Journal of Statistical Physics, 2004, 115, 1655-1668. | 1.2 | 20 |
| 206 | Shear-banding phenomena and dynamical behavior in a Laponite suspension. Physical Review E, 2008, 77, 031406. | 2.1 | 20 |
| 207 | Time-Dependent Nonlinear Optical Susceptibility of an Out-of-Equilibrium Soft Material. Physical Review Letters, 2009, 102, 038303. | 7.8 | 20 |
| 208 | Breaking the Contrast Limit in Single-Pass Fabry-Pérot Spectrometers. Physical Review Applied, 2016, 6, . | 3.8 | 20 |
| 209 | Elasto-optic constants in silicate glasses: Experiment and theory. Physical Review B, 1993, 48, 5987-5996. | 3.2 | 19 |
| 210 | Determination of the Short-Wavelength Propagation Threshold in the Collective Excitations of Liquid Ammonia. Physical Review Letters, 2000, 84, 4136-4139. | 7.8 | 19 |
| 211 | Inelastic X-ray scattering and the high-frequency dynamics of disordered systems. Physica B: Condensed Matter, 2002, 318, 341-349. | 2.7 | 19 |
| 212 | Bibliometric indicators: the origin of their log-normal distribution and why they are not a reliable proxy for an individual scholar $\hat{a} \in \mathbb{N}$ s talent. Palgrave Communications, 2017, 3, . | 4.7 | 19 |
| 213 | Inferring the stabilization effects of SARS-CoV-2 variants on the binding with ACE2 receptor. Communications Biology, 2022, 5, 1421. | 4.4 | 19 |
| 214 | High frequency viscous relaxation from the Brillouin spectra of nâ€pentanol. Journal of Chemical Physics, 1990, 93, 7751-7755. | 3.0 | 18 |
| 215 | Numerical study of the low-frequency atomic dynamics in a Lennard-Jones glass. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 473-484. | 0.6 | 18 |
| 216 | Microscopic dynamics and relaxation processes in liquid hydrogen fluoride. Physical Review B, 2004, 70, . | 3.2 | 18 |

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 217 | High frequency dynamics and structural relaxation process in liquid ammonia. Journal of Chemical Physics, 2007, 127, 084508. | 3.0 | 18 |
| 218 | Bioprinting stem cells: building physiological tissues one cell at a time. American Journal of Physiology - Cell Physiology, 2020, 319, C465-C480. | 4.6 | 18 |
| 219 | Phase diagram of a solution undergoing inverse melting. Physical Review E, 2008, 78, 020502. | 2.1 | 17 |
| 220 | A comparison of three multidisciplinarity indices based on the diversity of Scopus subject areas of authors' documents, their bibliography and their citing papers. Scientometrics, 2020, 125, 1145-1158. | 3.0 | 17 |
| 221 | Analysis of the Raman spectral shape inî±-Agl. Physical Review B, 1983, 28, 7269-7276. | 3.2 | 16 |
| 222 | Observation of Umklapp processes in noncrystalline materials. Physical Review B, 2001, 64, . | 3.2 | 16 |
| 223 | Microscopic Structure in Liquid Hydrogen and Deuterium: An X-Ray Scattering Study. Journal of Low Temperature Physics, 2002, 129, 117-131. | 1.4 | 16 |
| 224 | Comment on "Glass-Specific Behavior in the Damping of Acousticlike Vibrations― Physical Review Letters, 2007, 98, 079601; author reply 079602. | 7.8 | 16 |
| 225 | When disorder helps. Nature Materials, 2008, 7, 842-843. | 27.5 | 16 |
| 226 | Dual aging behaviour in a clay–polymer dispersion. Soft Matter, 2014, 10, 4513. | 2.7 | 16 |
| 227 | Aging behavior of the localization length in a colloidal glass. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 118-122. | 4.7 | 16 |
| 228 | Optical computation of a spin glass dynamics with tunable complexity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , . | 7.1 | 16 |
| 229 | Quantifying cellular forces and biomechanical properties by correlative micropillar traction force and Brillouin microscopy. Biomedical Optics Express, 2019, 10, 2202. | 2.9 | 16 |
| 230 | Collision induced light scattering in gaseous H2S. Molecular Physics, 1983, 49, 1179-1186. | 1.7 | 15 |
| 231 | Cusp-like temperature behavior of the nonergodicity factor in polybutadiene revealed by a joint light and x-ray Brillouin scattering investigation. Physical Review B, 2002, 65, . | 3.2 | 15 |
| 232 | Brillouin scattering investigations of fast dynamics in glass forming systems. Journal of Non-Crystalline Solids, 2002, 307-310, 148-153. | 3.1 | 15 |
| 233 | Relationship between phase transitions and topological changes in one-dimensional models. Physical Review E, 2005, 72, 016122. | 2.1 | 15 |
| 234 | Aging of the nonlinear optical susceptibility in doped colloidal suspensions. Physical Review B, 2007, 75, . | 3.2 | 15 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Generalised hydrodynamic description of the time correlation functions of liquid metals: <i>ab initio</i> molecular dynamics study. Molecular Physics, 2013, 111, 3457-3464. | 1.7 | 15 |
| 236 | Sound damping in glasses: Interplay between anharmonicities and elastic heterogeneities. Physical Review B, 2020, 101, . | 3.2 | 15 |
| 237 | X-ray diffraction and Raman scattering measurements on silica xerogels. Journal of Non-Crystalline Solids, 2002, 307-310, 135-141. | 3.1 | 14 |
| 238 | Nonlinear optics in the X-ray regime: nonlinear waves and self-action effects. Optics Express, 2008, 16, 8324. | 3.4 | 14 |
| 239 | Inelastic x-ray scattering from high pressure fluids in a diamond anvil cell. Applied Physics Letters, 2009, 94, . | 3.3 | 14 |
| 240 | Landau-Placzek ratio for heat density dynamics and its application to heat capacity of liquids. Journal of Chemical Physics, 2013, 138, 034502. | 3.0 | 14 |
| 241 | A quantitative measure to compare the disciplinary profiles of research systems and their evolution over time. Journal of Informetrics, 2014, 8, 710-727. | 2.9 | 14 |
| 242 | Theory of elastic constants of athermal amorphous solids with internal stresses. Granular Matter, 2019, 21, 1. | 2.2 | 14 |
| 243 | Perturbative approach to the dynamics of a linear chain with hierarchical coupling. Physical Review B, 1995, 51, 11399-11405. | 3.2 | 13 |
| 244 | Quantum effects in the dynamics of He probed by inelastic x-ray scattering. Physical Review E, 2001, 64, 021203. | 2.1 | 13 |
| 245 | Prigogineâ^'Defay Ratio for an Ionic Glass-Former: Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2009, 113, 3099-3104. | 2.6 | 13 |
| 246 | Reply to "Comment on â€~Behavior of Supercritical Fluids across the Frenkel Line'― Journal of Physical Chemistry B, 2018, 122, 6120-6123. | 2.6 | 13 |
| 247 | Comment on "Emergence and Evolution of the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>k</mml:mi></mml:mrow></mml:math> Gap in Spectra of Liquid and Supercritical States― Physical Review Letters, 2018, 120, 219601. | 7.8 | 13 |
| 248 | Hyperuniformity in amorphous speckle patterns. Optics Express, 2018, 26, 15594. | 3.4 | 13 |
| 249 | Molecular dynamics simulations of liquid water: Voronoi polyhedra and network topology. Journal of Molecular Structure, 1991, 250, 259-270. | 3.6 | 12 |
| 250 | Sound wave propagation and existence of a two step relaxation process in a glass-former melt. Physical Review E, 1998, 57, 720-729. | 2.1 | 12 |
| 251 | Elastic Constant Inhomogeneity and the Broadening of the Dynamic Structure Factor in One-Dimensional Disordered Systems. Physical Review Letters, 1999, 83, 3450-3453. | 7.8 | 12 |
| 252 | Crossover between equilibrium and shear-controlled dynamics in sheared liquids. Physical Review E, 2002, 66, 061505. | 2.1 | 12 |

| # | Article | IF | Citations |
|-----|---|-----|-----------|
| 253 | Saddles and softness in simple model liquids. Journal of Chemical Physics, 2004, 121, 7533-7534. | 3.0 | 12 |
| 254 | An empirical approach to compare the performance of heterogeneous academic fields. Scientometrics, 2013, 97, 601-625. | 3.0 | 12 |
| 255 | Demonstration of self-healing and scattering resilience of acoustic Bessel beams. Applied Physics Letters, 2019, 114, . | 3.3 | 12 |
| 256 | Simulated Epidemics in 3D Protein Structures to Detect Functional Properties. Journal of Chemical Information and Modeling, 2020, 60, 1884-1891. | 5.4 | 12 |
| 257 | Lactoferrin Inhibition of the Complex Formation between ACE2 Receptor and SARS CoV-2 Recognition Binding Domain. International Journal of Molecular Sciences, 2022, 23, 5436. | 4.1 | 12 |
| 258 | Deep learning for blind structured illumination microscopy. Scientific Reports, 2022, 12, . | 3.3 | 12 |
| 259 | Nonequilibrium thermodynamic description of the coupling between structural and entropic modes in supercooled liquids. Physical Review E, 2003, 67, 015102. | 2.1 | 11 |
| 260 | Dynamics and geometric properties of thek-trigonometric model. Journal of Physics A, 2003, 36, 8565-8601. | 1.6 | 11 |
| 261 | Aging and flow in a complex fluid. Journal of Non-Crystalline Solids, 2006, 352, 4928-4933. | 3.1 | 11 |
| 262 | Relation between Heterogeneous Frozen Regions in Supercooled Liquids and Non-Debye Spectrum in the Corresponding Glasses. Physical Review Letters, 2019, 123, 155502. | 7.8 | 11 |
| 263 | Rational design and synthesis of a novel BODIPY-based probe for selective imaging of tau tangles in human iPSC-derived cortical neurons. Scientific Reports, 2022, 12, 5257. | 3.3 | 11 |
| 264 | Mode-locking transitions in nanostructured weakly disordered lasers. Physical Review B, 2007, 76, . | 3.2 | 10 |
| 265 | Viscosity measurements in a solution undergoing inverse melting. Philosophical Magazine, 2007, 87, 553-558. | 1.6 | 10 |
| 266 | Mode competitions and dynamical frequency pulling in Mie nanolasers: 3D ab-initio Maxwell-Bloch computations. Optics Express, 2008, 16, 8342. | 3.4 | 10 |
| 267 | Crossover between hydrodynamic and kinetic modes in binary liquid alloys. Physical Review B, 2008, 77, | 3.2 | 10 |
| 268 | Measurement of the Four-Point Susceptibility of an Out-of-Equilibrium Colloidal Solution of Nanoparticles Using Time-Resolved Light Scattering. Physical Review Letters, 2012, 109, 097401. | 7.8 | 10 |
| 269 | Sound attenuation and anharmonic damping in solids with correlated disorder. Condensed Matter Physics, 2010, 13, 23606. | 0.7 | 10 |
| 270 | Rovibrational Raman spectra and polarizability constants of the H2S molecule. Molecular Physics, 1985, 54, 1229-1240. | 1.7 | 9 |

| # | Article | IF | CITATIONS |
|-----|---|---------------|-----------|
| 271 | Comment on: â€~â€~Raman isosbestic points from liquid water'' and â€~â€~Temperature dependence of th and high frequency Raman scattering from liquid water''. Journal of Chemical Physics, 1988, 88, 4553-4555. | ne low 3.0 | 9 |
| 272 | Brillouin scattering intensities in glasses: Theory and experiment. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1989, 59, 3-15. | 0.6 | 9 |
| 273 | Inelastic X-ray scattering determination of the dynamic structure factor of liquid lithium. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2027-2035. | 0.6 | 9 |
| 274 | Molecular dynamics simulation study of the high frequency sound waves in the fragile glass former orthoterphenyl. Journal of Chemical Physics, 2002, 116, 1077-1084. | 3.0 | 9 |
| 275 | Brillouin light and X-ray study of glass-forming polybutadiene. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 273-281. | 0.6 | 9 |
| 276 | X-ray and neutron scattering studies in vitreous silica: Acoustic nature of vibrational dynamics in the mesoscopic range. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 223-232. | 0.6 | 9 |
| 277 | Comment on "Collective dynamics in liquid lithium, sodium, and aluminum― Physical Review E, 2004, 70, 013201; author reply 013202. | 2.1 | 9 |
| 278 | Fragility inp-spin models. Physical Review E, 2004, 69, 061505. | 2.1 | 9 |
| 279 | High frequency dynamics in liquid nickel: An inelastic x-ray scattering study. Journal of Chemical Physics, 2008, 128, 234502. | 3.0 | 9 |
| 280 | Charge-density correlations in pressurized liquid lithium calculated using <i> ab initio </i> molecular dynamics. Physical Review B, 2014, 90, . | 3.2 | 9 |
| 281 | Isotopic Effect on the Gel and Glass Formation of a Charged Colloidal Clay: Laponite. Journal of Physical Chemistry B, 2017, 121, 4576-4582. | 2.6 | 9 |
| 282 | Scattering Assisted Imaging. Scientific Reports, 2019, 9, 4591. | 3.3 | 9 |
| 283 | A recurrent neural network model of C. elegans responses to aversive stimuli. Neurocomputing, 2021, 430, 1-13. | 5.9 | 9 |
| 284 | Computational optimization of angiotensin-converting enzyme 2 for SARS-CoV-2 Spike molecular recognition. Computational and Structural Biotechnology Journal, 2021, 19, 3006-3014. | 4.1 | 9 |
| 285 | Spatial coherence of light inside three-dimensional media. Nature Communications, 2021, 12, 4199. | 12.8 | 9 |
| 286 | Thermometer: a webserver to predict protein thermal stability. Bioinformatics, 2022, 38, 2060-2061. | 4.1 | 9 |
| 287 | Diffraction Studies of Liquid Deuterium Sulphide. Europhysics Letters, 1989, 8, 441-446. | 2.0 | 8 |
| 288 | Dynamical correlations in liquid hydrogen–sulphide. Journal of Chemical Physics, 1990, 93, 9012-9017. | 3.0 | 8 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 289 | Computer Simulation of Polarizarle Fluids: On the Determination of the Induced Dipoles. Molecular Simulation, 1995, 15, 281-300. | 2.0 | 8 |
| 290 | Orientational and induced contributions to the depolarized Rayleigh spectra of liquid and supercooled ortho-terphenyl. Journal of Chemical Physics, 2002, 117, 3289-3295. | 3.0 | 8 |
| 291 | A stroll in the energy landscape. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 151-161. | 0.6 | 8 |
| 292 | Inelastic X-ray scattering study of the collective dynamics in simple liquid metals. Journal of Non-Crystalline Solids, 2002, 312-314, 121-127. | 3.1 | 8 |
| 293 | High frequency acoustic modes in vitreous beryllium fluoride probed by inelastic x-ray scattering. Journal of Chemical Physics, 2003, 118, 311-316. | 3.0 | 8 |
| 294 | Flow between rotating finite disks with a closed end condition studied by heterodyne photon-correlation. Journal of Fluid Mechanics, 2005, 525, 27-36. | 3.4 | 8 |
| 295 | Fragility and glassy dynamics of 2Ca(NO3)2â«3KNO3 under pressure: Molecular dynamics simulations. Journal of Chemical Physics, 2008, 128, 191104. | 3.0 | 8 |
| 296 | Binding site identification of G protein-coupled receptors through a 3D Zernike polynomials-based method: application to C. elegans olfactory receptors. Journal of Computer-Aided Molecular Design, 2022, 36, 11-24. | 2.9 | 8 |
| 297 | Supervised perceptron learning vs unsupervised Hebbian unlearning: Approaching optimal memory retrieval in Hopfield-like networks. Journal of Chemical Physics, 2022, 156, 104107. | 3.0 | 8 |
| 298 | A Microscopic Theory for the Brillouin Intensities Evaluation in Noble-Gas Crystals. Europhysics Letters, 1986, 2, 877-881. | 2.0 | 7 |
| 299 | On the multiple grating spectrometers resolving power. Optics Communications, 1988, 67, 399-403. | 2.1 | 7 |
| 300 | The super-gratings: How to improve the limiting resolution of grating spectrometers. Optics Communications, 1990, 76, 185-190. | 2.1 | 7 |
| 301 | Vibrational dynamics of percolating clusters: Fracton wavefunctions and Raman coupling coefficients. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 65, 243-250. | 0.6 | 7 |
| 302 | Microscopic model for the two-phonon Raman spectra of alkali halides. Physical Review B, 1993, 47, 11830-11838. | 3.2 | 7 |
| 303 | Origin of light scattering from disordered systems. Physica A: Statistical Mechanics and Its Applications, 1995, 216, 32-44. | 2.6 | 7 |
| 304 | Brillouin and Raman cross sections in silicate glasses. Physical Review B, 1995, 52, 976-981. | 3.2 | 7 |
| 305 | Vibrational origin of the fast relaxation processes in molecular glass formers. Europhysics Letters, 2002, 60, 92-98. | 2.0 | 7 |
| 306 | Saddles and dynamics in a solvable mean-field model. Journal of Chemical Physics, 2003, 118, 8301-8306. | 3.0 | 7 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 307 | Reply to "Comment on â€~Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids' ―[J. Chem. Phys. 118, 5263 (2002)]. Journal of Chemical Physics, 2003, 118, 5265-5266. | 3.0 | 7 |
| 308 | 6th International discussion meeting on relaxations in complex systems New results, directions and opportunities August 30th–September 5th 2009, Rome, Italy. Journal of Non-Crystalline Solids, 2011, 357, 241-242. | 3.1 | 7 |
| 309 | Generalized collective excitations in supercritical argon. Molecular Physics, 2011, 109, 2929-2934. | 1.7 | 7 |
| 310 | Molecular dynamics beyonds the limits: Massive scaling on 72 racks of a BlueGene/P and supercooled glass dynamics of a 1 billion particles system. Journal of Computational Physics, 2012, 231, 3432-3445. | 3.8 | 7 |
| 311 | On the number of limit cycles in asymmetric neural networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 053402. | 2.3 | 7 |
| 312 | A novel strategy for molecular interfaces optimization: The case of Ferritin-Transferrin receptor interaction. Computational and Structural Biotechnology Journal, 2020, 18, 2678-2686. | 4.1 | 7 |
| 313 | Alignment interactions drive structural transitions in biological tissues. Physical Review E, 2021, 104, 044606. | 2.1 | 7 |
| 314 | Emission spectroscopy of 15 kWe arcjet plumes. , 1990, , . | | 6 |
| 315 | Evaluation of Brillouin scattering intensities from rare gas crystals. Molecular Physics, 1990, 71, 97-108. | 1.7 | 6 |
| 316 | Absolute two-phonon Raman cross section in potassium chloride. Physical Review B, 1991, 43, 14268-14271. | 3.2 | 6 |
| 317 | Quenches and crunches: Does the system explore in ageing the same part of the configuration space explored in equilibrium?. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 695-705. | 0.6 | 6 |
| 318 | Phase transitions and topology in 2+k XY mean-field models. Physical Review E, 2007, 76, 051119. | 2.1 | 6 |
| 319 | Dynamics of Laponite solutions: An interpretation within the coupling model scheme. Journal of Non-Crystalline Solids, 2007, 353, 3885-3890. | 3.1 | 6 |
| 320 | Shear thickening in a solution undergoing inverse melting. Philosophical Magazine, 2008, 88, 4109-4116. | 1.6 | 6 |
| 321 | Pressure behavior of the sound velocity of liquid water at room temperature in the terahertz regime. Physical Review B, 2011, 84, . | 3.2 | 6 |
| 322 | Acoustic Dissipation and Density of States in Liquid, Supercooled, and Glassy Glycerol. Physical Review Letters, 2011, 106, 155701. | 7.8 | 6 |
| 323 | Theory of heterogeneous viscoelasticity. Philosophical Magazine, 2016, 96, 620-635. | 1.6 | 6 |
| 324 | Assessing the interdependencies between scientific disciplinary profiles. Scientometrics, 2018, 116, 1785-1803. | 3.0 | 6 |

| # | Article | IF | Citations |
|-----|---|-----|-----------|
| 325 | Self-consistent Euclidean-random-matrix theory. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 464002. | 2.1 | 6 |
| 326 | Investigation of the binding between olfactory receptors and odorant molecules in C. elegans organism. Biophysical Chemistry, 2019, 255, 106264. | 2.8 | 6 |
| 327 | Sources and uses of knowledge in a dynamic network technology. International Transactions in Operational Research, 2020, 27, 1821-1844. | 2.7 | 6 |
| 328 | Network dilution and asymmetry in an efficient brain. Philosophical Magazine, 2020, 100, 2544-2555. | 1.6 | 6 |
| 329 | Characterization of molecular-atomic transformation in fluid hydrogen under pressure via long-wavelength asymptote of charge density fluctuations. Journal of Molecular Liquids, 2020, 312, 113274. | 4.9 | 6 |
| 330 | Asymmetric binomial statistics explains organelle partitioning variance in cancer cell proliferation. Communications Physics, 2021, 4, . | 5.3 | 6 |
| 331 | Quenches and crunches: does the system explore in ageing the same part of the configuration space explored in equilibrium?. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 695-705. | 0.6 | 6 |
| 332 | Optonongenetic enhancement of activity in primary cortical neurons. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 643. | 1.5 | 6 |
| 333 | Modeling the instantaneous normal mode spectra of liquids as that of unstable elastic media. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 6 |
| 334 | Raman activity in thel²phase of silver iodide: Low-temperature ordered crystal. Physical Review B, 1988, 38, 10883-10893. | 3.2 | 5 |
| 335 | Properties of the double well potential and relaxation processes in a model glass. PhysChemComm, 1999, 2, 20. | 0.8 | 5 |
| 336 | Is there any evidence of a positive sound dispersion in the high frequency dynamics of noble gases?. Journal of Physics and Chemistry of Solids, 2000, 61, 477-483. | 4.0 | 5 |
| 337 | Spectroscopic cell for fast pressure jumps across the glass transition line. Review of Scientific Instruments, 2004, 75, 2631-2637. | 1.3 | 5 |
| 338 | High-frequency transverse-like excitations in glassy glycerol. Philosophical Magazine, 2004, 84, 1453-1461. | 1.6 | 5 |
| 339 | Inelastic X-ray scattering and high-frequency dynamics of molecular liquids. Pure and Applied Chemistry, 2004, 76, 79-89. | 1.9 | 5 |
| 340 | High frequency dynamics of an orientationally disordered molecular crystal. Journal of Non-Crystalline Solids, 2006, 352, 4552-4555. | 3.1 | 5 |
| 341 | High frequency collective dynamics in liquid potassium. Journal of Non-Crystalline Solids, 2007, 353, 3154-3159. | 3.1 | 5 |
| 342 | Role of saddles in topologically driven phase transitions: The case of the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math> -dimensional spherical model. Physical Review E, 2008, 77, 052101. | 2.1 | 5 |

| # | Article | IF | CITATIONS |
|-----|--|-------------|-----------|
| 343 | Reconstructing Nonparametric Productivity Networks. Entropy, 2020, 22, 1401. | 2.2 | 5 |
| 344 | On the Number of Limit Cycles in Diluted Neural Networks. Journal of Statistical Physics, 2020, 181, 2304-2321. | 1,2 | 5 |
| 345 | Heat capacity of liquids: A hydrodynamic approach. Condensed Matter Physics, 2015, 18, 13606. | 0.7 | 5 |
| 346 | Probing the Debye spectrum in glasses using small system sizes. Physical Review Research, 2020, 2, . | 3.6 | 5 |
| 347 | A Computational Approach to Investigate TDP-43 RNA-Recognition Motif 2 C-Terminal Fragments Aggregation in Amyotrophic Lateral Sclerosis. Biomolecules, 2021, 11, 1905. | 4.0 | 5 |
| 348 | Shape Complementarity Optimization of Antibody–Antigen Interfaces: The Application to SARS-CoV-2 Spike Protein. Frontiers in Molecular Biosciences, 2022, 9, . | 3.5 | 5 |
| 349 | Study of the order-disorder transition in \hat{l}_{\pm} -AgI by temperature dependence of the depolarization ratio. Solid State Ionics, 1981, 5, 473-476. | 2.7 | 4 |
| 350 | Nonâ€Lorentzian depolarized Raman line shapes innâ€pentanol. Journal of Chemical Physics, 1992, 97, 6136-6143. | 3.0 | 4 |
| 351 | Longitudinal collective modes in liquid water. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 817-824. | 0.4 | 4 |
| 352 | Low-frequency Raman scattering in model disordered solids: percolators above threshold. Physica A: Statistical Mechanics and Its Applications, 1997, 247, 23-29. | 2.6 | 4 |
| 353 | The fast Î ² process in <i>m</i> -tricresyl phosphate and its possible connection with the boson peak: A light scattering analysis. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 435-442. | 0.6 | 4 |
| 354 | ScopignoetÂal.Reply:. Physical Review Letters, 2005, 95, . | 7.8 | 4 |
| 355 | Some remarks on the low-energy excitations in glasses: interpretation of Boson peak data. Philosophical Magazine, 2007, 87, 593-602. | 1.6 | 4 |
| 356 | Reply to "Comment on  Phase diagram of a solution undergoing inverse melting' ― Physical Review 2009, 79, . | w_E, 2.1 | 4 |
| 357 | Characterization of archeological human bone tissue by enhanced backscattering of light. Applied Physics Letters, 2009, 94, 101101. | 3.3 | 4 |
| 358 | Saddles of the energy landscape and folding of model proteins. Europhysics Letters, 2009, 87, 18002. | 2.0 | 4 |
| 359 | Low energy neutron production by inverse \hat{l}^2 decay in metallic hydride surfaces. European Physical Journal C, 2012, 72, 1. | 3.9 | 4 |
| 360 | Relaxation is a Two-Step Process for Metallic Glasses. Physics Magazine, 2017, 10, . | 0.1 | 4 |

| # | Article | IF | Citations |
|-----|---|-----|-----------|
| 361 | Comment on "Universal Origin of Boson Peak Vibrational Anomalies in Ordered Crystals and in Amorphous Materials― Physical Review Letters, 2021, 127, 179601. | 7.8 | 4 |
| 362 | Effects of correlations between silver ions in the Raman spectral shape of \hat{l}_{\pm} -Agl. Solid State Ionics, 1983, 9-10, 1377-1382. | 2.7 | 3 |
| 363 | Rayleigh band of gaseous H2S. Molecular Physics, 1986, 57, 1153-1162. | 1.7 | 3 |
| 364 | Setteet al.Reply:. Physical Review Letters, 1996, 76, 3657-3657. | 7.8 | 3 |
| 365 | Setteet al.Reply:. Physical Review Letters, 1997, 78, 976-976. | 7.8 | 3 |
| 366 | Dynamic structure factor of glassy o-terphenyl: a Brillouin light scattering study. Journal of Non-Crystalline Solids, 1998, 235-237, 208-211. | 3.1 | 3 |
| 367 | Structural and entropic modes in supercooled liquids: experimental and theoretical investigation. Journal of Physics Condensed Matter, 2003, 15, S1181-S1192. | 1.8 | 3 |
| 368 | Brillouin ultraviolet light scattering on vitreous silica. Journal of Non-Crystalline Solids, 2005, 351, 1919-1923. | 3.1 | 3 |
| 369 | Optical trapping studies of colloidal interactions in liquid films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 343, 133-136. | 4.7 | 3 |
| 370 | Slow dynamics of liquid Se studied by Infrared Photon Correlation Spectroscopy. Journal of Non-Crystalline Solids, 2009, 355, 1797-1800. | 3.1 | 3 |
| 371 | Collective Excitations in Supercritical Fluids. Springer Proceedings in Physics, 2015, , 77-102. | 0.2 | 3 |
| 372 | Period doubling induced by thermal noise amplification in genetic circuits. Scientific Reports, 2015, 4, 7088. | 3.3 | 3 |
| 373 | The Mixing of Polarizations in the Acoustic Excitations of Disordered Media With Local Isotropy. Frontiers in Physics, 2018, 6, . | 2.1 | 3 |
| 374 | Non-hydrodynamic modes in viscoelastic behaviour of simple fluids. Philosophical Magazine, 2020, 100, 2568-2581. | 1.6 | 3 |
| 375 | Comment on $\hat{a}\in \infty$ Collective modes and gapped momentum states in liquid Ga: Experiment, theory, and simulation $\hat{a}\in \Omega$ Physical Review B, 2021, 103, . | 3.2 | 3 |
| 376 | Quantitative Description of Surface Complementarity of Antibody-Antigen Interfaces. Frontiers in Molecular Biosciences, 2021, 8, 749784. | 3.5 | 3 |
| 377 | Induced Light Scattering in Disordered Solids. , 1985, , 567-588. | | 3 |
| 378 | Velocity autocorrelations across the molecularâ€"atomic fluid transformation in hydrogen under pressure. Condensed Matter Physics, 2020, 23, 23607. | 0.7 | 3 |

| # | Article | IF | CITATIONS |
|-----|--|-----------------|-------------|
| 379 | Computational Modeling of the Thermodynamics of the Mesophilic and Thermophilic Mutants of Trp-Cage Miniprotein. ACS Omega, 2022, 7, 13448-13454. | 3.5 | 3 |
| 380 | Disorder induced Raman scattering in \hat{l}^2 -Agl. Solid State Ionics, 1986, 18-19, 883-887. | 2.7 | 2 |
| 381 | The fluctuation origin of disorder-induced light scattering. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 348-351. | 2.6 | 2 |
| 382 | Self-diffusion in liquid water: a geometrical approach. Chemical Physics Letters, 1992, 188, 332-337. | 2.6 | 2 |
| 383 | Off-equilibrium dynamics in the energy landscape of a simple model glass. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 163-169. | 0.6 | 2 |
| 384 | Publisher's Note: Parametric Resonance of Optically Trapped Aerosols [Phys. Rev. Lett.99, 010601 (2007)]. Physical Review Letters, 2007, 99, . | 7.8 | 2 |
| 385 | ScopignoetÂal.Reply:. Physical Review Letters, 2007, 98, . | 7.8 | 2 |
| 386 | High-frequency dynamics of liquid and supercritical nitrogen. Philosophical Magazine, 2007, 87, 665-671. | 1.6 | 2 |
| 387 | About the formation of C60 fine particles with reprecipitation method in ethanol/carbon disulfide mixture. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 402-405. | 3.9 | 2 |
| 388 | Nonlinear refraction of hard x rays. Physical Review B, 2008, 77, . | 3.2 | 2 |
| 389 | Response to "Comment on †Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustic approach†M―[Appl. Phys. Lett. 98, 246101 (2011)]. Applied Physics Letters, 2011, 98, 246102. | 3.3 | 2 |
| 390 | Laser propulsion of nanobullets by adiabatic compression of surface plasmon polaritons. Scientific Reports, 2015, 5, 17652. | 3.3 | 2 |
| 391 | Analytical description of the transverse Anderson localization of light. Journal of Optics (United) Tj ETQq1 1 0.784 | 314 rgBT 2.2 | /Qverlock 1 |
| 392 | Moment-Preserving Theory of Vibrational Dynamics of Topologically Disordered Systems. Frontiers in Physics, 2017, 5, . | 2.1 | 2 |
| 393 | The 17th International Conference on Scientometrics and Informetrics. Scientometrics, 2020, 125, 831-834. | 3.0 | 2 |
| 394 | Microscopic structure and collective modes in liquid hydrogen: a preliminary inelastic X-ray scattering study. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 305-312. | 0.6 | 2 |
| 395 | Brillouin light and X-ray study of glass-forming polybutadiene. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 273-281. | 0.6 | 2 |
| 396 | A novel computational strategy for defining the minimal protein molecular surface representation. PLoS ONE, 2022, 17, e0266004. | 2.5 | 2 |

| # | Article | IF | Citations |
|-----|--|-----|-----------|
| 397 | Direct Visualization and Identification of Membrane Voltageâ€Gated Sodium Channels from Human iPSCâ€Derived Neurons by Multiple Imaging and Light Enhanced Spectroscopy. Small Methods, 2022, 6, . | 8.6 | 2 |
| 398 | Geometrical aspects of self diffusion in liquid water. Journal of Molecular Structure, 1991, 250, 171-179. | 3.6 | 1 |
| 399 | A model for low frequency Raman scattering in hydrogen- bonded solids. Journal of Molecular Structure, 1991, 250, 395-401. | 3.6 | 1 |
| 400 | On the self-consistent equation for the microscopic local electric field in dielectric systems. Molecular Physics, 1991, 73, 745-756. | 1.7 | 1 |
| 401 | Theory of Raman and Brillouin scattering in disordered solid. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 65, 161-172. | 0.6 | 1 |
| 402 | Low-frequency light scattering from disordered hydrogen-bonded solids. Physical Review B, 1992, 46, 2845-2852. | 3.2 | 1 |
| 403 | STATISTICAL BEHAVIOR OF CHARACTERISTIC LENGTHS OF VIBRATIONS ON TWO-DIMENSIONAL RANDOM FRACTALS. Fractals, 1993, 01, 1044-1050. | 3.7 | 1 |
| 404 | Study of the longitudinal dynamics of glass-forming systems in the mesoscopic energy—momentum region. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 533-545. | 0.6 | 1 |
| 405 | Short-time dynamics in simple disordered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 233-241. | 0.6 | 1 |
| 406 | Microscopic structure and collective modes in liquid hydrogen: A preliminary inelastic X-ray scattering study. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 305-312. | 0.6 | 1 |
| 407 | Sample environment and experimental setup for inelastic x-ray scattering measurements of liquid hydrogen fluoride and (HF)x(H2O)1â^'x solutions. Review of Scientific Instruments, 2005, 76, 013905. | 1.3 | 1 |
| 408 | Ageing of the nonlinear optical susceptibility in soft matter. Journal of Physics Condensed Matter, 2007, 19, 205129. | 1.8 | 1 |
| 409 | Relaxation dynamics and acoustic properties in simple liquids. Journal of Non-Crystalline Solids, 2007, 353, 3160-3163. | 3.1 | 1 |
| 410 | Longitudinal acoustic compliance and tagged particle susceptibility in liquid and supercooled glycerol. Journal of Non-Crystalline Solids, 2011, 357, 515-517. | 3.1 | 1 |
| 411 | P0532 : HBx-DLEU2 IncRNA complex affects transcription of new target promoters. Journal of Hepatology, 2015, 62, S514-S515. | 3.7 | 1 |
| 412 | AWC C. elegans neuron: a biological sensor model. , 2020, , . | | 1 |
| 413 | Do we understand the solid-like elastic properties of confined liquids?. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2021288118. | 7.1 | 1 |
| 414 | Comment on "Universal Effect of Excitation Dispersion on the Heat Capacity and Gapped States in Fluids― Physical Review Letters, 2021, 126, 229601. | 7.8 | 1 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 415 | Computational optimization of transcranial focused ultrasound stimulation: Toward noninvasive, selective stimulation of deep brain structures. Applied Physics Letters, 2021, 118, 233702. | 3.3 | 1 |
| 416 | Transverse and Quantum Localization of Light: A Review on Theory and Experiments. Frontiers in Physics, 2021, 9, . | 2.1 | 1 |
| 417 | A THEORETICAL MODEL FOR THE CONTINUOUS ORDER-DISORDER TRANSITION AT 703 K IN SUPERIONIC α-Agl. Journal De Physique Colloque, 1981, 42, C6-196-C6-198. | 0.2 | 1 |
| 418 | Potential energy landscape of simple structural glasses. European Physical Journal Special Topics, 1998, 08, Pr6-63-Pr6-67. | 0.2 | 1 |
| 419 | Study of the High Frequency Dynamics in Glass-Forming Systems. Japanese Journal of Applied Physics, 1999, 38, 126. | 1.5 | 1 |
| 420 | Gel and glass transition in fragile colloidal clays. Condensed Matter Physics, 2019, 22, 43607. | 0.7 | 1 |
| 421 | Rayleigh scattering and disorder-induced mixing of polarizations in amorphous solids at the nanoscale: 1-octyl-3-methylimidazolium chloride glass. Physical Review B, 2020, 102, . | 3.2 | 1 |
| 422 | Worldwide bilateral geopolitical interactions network inferred from national disciplinary profiles. Physical Review Research, 2022, 4, . | 3.6 | 1 |
| 423 | A model for the long time dynamics in a simple glass: Off-equilibrium properties. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1987-1992. | 0.6 | 0 |
| 424 | Amorphous Materials: Inelastic X-ray Scattering. , 2001, , 201-204. | | 0 |
| 425 | Evidence of a submegahertz acoustic dispersion in liquid and glassy <i>o</i> terphenyl. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 357-364. | 0.6 | 0 |
| 426 | Study of the dynamic structure factor of hydrogen fluoride by inelastic X-ray scattering. Philosophical Magazine, 2004, 84, 1507-1512. | 1.6 | 0 |
| 427 | Ninth International Workshop on Disordered Systems Andalo-Molveno (Trento), Italy, 10–13 March 2003. Philosophical Magazine, 2004, 84, 1303-1303. | 1.6 | О |
| 428 | Relaxation dynamics in (HF)x(H2O)1â^'x solutions. Journal of Chemical Physics, 2005, 123, 034502. | 3.0 | 0 |
| 429 | Parametric excitation of optically trapped aerosols. , 2007, 6644, 274. | | 0 |
| 430 | Linear and nonlinear light diffusion in disordered photonic structures., 2007,,. | | 0 |
| 431 | Non Local Solitons and Filamentation in Soft Matter. , 2007, , . | | O |
| 432 | Observation of aging of the nonlinear susceptibility in soft-matter., 2007,,. | | 0 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 433 | Complexity and coherence in Random Lasers. , 2007, , . | | O |
| 434 | A glassy model for random lasers. Philosophical Magazine, 2007, 87, 587-592. | 1.6 | 0 |
| 435 | Contribution of the terahertz vibrations to the high-temperature thermal conductivity of vitreous silica. Philosophical Magazine, 2008, 88, 3915-3923. | 1.6 | O |
| 436 | Gas of dark solitons generated by an optical shock. , 2008, , . | | 0 |
| 437 | Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustics approach. , 2011, , . | | 0 |
| 438 | HBx–DLEU2 IncRNA complex affects transcription of new target promoters. Digestive and Liver Disease, 2015, 47, e30. | 0.9 | 0 |
| 439 | Mathematical modeling of the Caenorhabditis elegans RMD motor neurons. , 2020, , . | | 0 |
| 440 | Optical computation of the spin glass dynamics. , 2021, , . | | 0 |
| 441 | MLL4 protein tunes chromatin compaction and regulates nuclear mechanical stress., 2021,,. | | 0 |
| 442 | DMD based scalable computation of the spin glass thermodynamics. , 2021, , . | | 0 |
| 443 | Scalable optical computation of the spin glass thermodynamics. , 2021, , . | | 0 |
| 444 | Terahertz scattering microscopy For dermatology diagnostics. JPhys Photonics, 0, , . | 4.6 | 0 |
| 445 | Disorder-Induced Light Scattering in α-Agl. Springer Series in Solid-state Sciences, 1984, , 437-439. | 0.3 | 0 |
| 446 | Longitudinal and Transverse Brillouin Intensities in Glasses: Experiments and Interaction Induced Contributions. Springer Proceedings in Physics, 1989, , 225-230. | 0.2 | 0 |
| 447 | Anomalous Sound Dispersion in Liquid Water. , 1994, , 81-84. | | 0 |
| 448 | MD Simulations of Stretched TIP4P-Water in the Supercooled Regime. , 1994, , 77-80. | | 0 |
| 449 | Molecular Dynamics on a Water Model with Polarizability and Hyperpolarizability. , 1994, , 73-76. | | O |
| 450 | Induced Light Scattering from Electrically Disordered Solids. , 1995, , 307-321. | | 0 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 451 | High-frequency collective excitations in liquid and solid water by inelastic X-ray scattering. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C366-C366. | 0.3 | O |
| 452 | Transverse localization of light for single-mode and secure information transport., 2017,,. | | 0 |
| 453 | A 1000-fold contrast enhancement in Fabry-Pérot interferometers. , 2017, , . | | O |
| 454 | Analysis of high frame-rate movies by variational methods. Mathematics for Applications, 2019, 8, 59-77. | 0.3 | 0 |
| 455 | Scattering assisted imaging (Conference Presentation). , 2020, , . | | O |
| 456 | Novel Approaches to the Development and Application of Informetric and Scientometric Tools. Journal of Data and Information Science, 2020, 5, 1-4. | 1.1 | 0 |
| 457 | DMD-based scattering assisted imaging with unknown speckle patterns (Conference Presentation)., 2020,,. | | O |
| 458 | Towards intracellular phase transitions in ALS disease by noncontact Brillouin microscopy (Conference Presentation). , 2020, , . | | 0 |
| 459 | Novel Approaches to the Development and Application of Informetric and Scientometric Tools. Journal of Data and Information Science, 2020, 5, 1-4. | 1.1 | O |