Giancarlo Ruocco

List of Articles by Year
in descending order

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478 peer-reviewed articles	16,004 peer-reviewed citations	21553 61 peer-reviewed h-index	537315 4.22 score
532 documents	17878 doc citations	22595 65 h-index	19898 citing authors

#	Article	IF	Citations
1	Live-cell imaging of circular and long noncoding RNAs associated with FUS pathological aggregates by Pepper fluorescent RNA. Rna, 2025, 31, 529-548.	2.5	7
2	Compact Assessment of Molecular Surface Complementarities Enhances Neural Network-Aided Prediction of Key Binding Residues. Journal of Chemical Information and Modeling, 2025, 65, 2695-2709.	3.2	2
3	A compact electromagnetic syringe stirrer and temperature controller for the reliable dispensing of living cells and microparticles. HardwareX, 2025, 22, e00638.	1.0	1
4	Optical signature of retinal Tau fibrillation. Scientific Reports, 2025, 15, .	2.7	4
5	Toward universal models for collective interactions in biomolecular condensates. Biophysics Reviews, 2025, 6, .	2.3	1
6	Modelling, simulation, and experimental characterization of particle sedimentation inside a horizontal syringe. Microfluidics and Nanofluidics, 2025, 29, .	2.1	5
7	Probing phased-array focused ultrasound transducers using realistic 3D in-silico trabecular skull models: A numerical study. Ultrasonics, 2025, 154, 107692.	3.6	4
8	Virus-like particles of retroviral origin in protein aggregation and neurodegenerative diseases. Molecular Aspects of Medicine, 2025, 103, 101369.	7.5	6
9	Transverse collective excitations in liquids: Is the phonon theory of liquid thermodynamics correct?. Physical Review E, 2025, 111, .	1.5	3
10	A recurrent Hopfield network for estimating meso-scale effective connectivity in MEG. Neural Networks, 2024, 170, 72-93.	5.3	9
11	Microfluidic fiber spinning for 3D bioprinting: Harnessing microchannels to build macrotissues. International Journal of Bioprinting, 2024, 10, 1404.	2.5	21
12	Photonic Stochastic Emergent Storage for deep classification by scattering-intrinsic patterns. Nature Communications, 2024, 15, .	10.8	8
13	High-Throughput Interactome Determination via Sulfur Anomalous Scattering. Journal of Physical Chemistry Letters, 2024, 15, 3478-3485.	2.9	5
14	Computational Approaches to Predict Protein–Protein Interactions in Crowded Cellular Environments. Chemical Reviews, 2024, 124, 3932-3977.	42.5	102
15	Biophysical modeling of the whole-cell dynamics of C. elegans motor and interneurons families. PLoS ONE, 2024, 19, e0298105.	1.5	5
16	The nature of non-phononic excitations in disordered systems. Nature Communications, 2024, 15, .	10.8	25
17	A size-dependent division strategy accounts for leukemia cell size heterogeneity. Communications Physics, 2024, 7, .	3.5	18
18	Dynamic Gene Expression Mitigates Mutational Escape in Lysis-Driven Bacteria Cancer Therapy. Biodesign Research, 2024, 6, 0049.	4.4	4

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19	Three-dimensional Anderson localization of light in materials with fluctuating electric and magnetic properties. Optics Express, 2024, 32, 41776.	2.3	0
20	Osmolyte-induced protein stability changes explained by graph theory. Computational and Structural Biotechnology Journal, 2024, 23, 4077-4087.	2.7	7
21	Photonic emergent Learning. EPJ Web of Conferences, 2024, 309, 15004.	0.2	0
22	A microfluidic scanning flow cytometer with superior signal-to-noise-ratio for label-free characterization of small particles. EPJ Web of Conferences, 2024, 309, 04002.	0.2	1
23	Side-scattering spectroscopy of biological aggregates. EPJ Web of Conferences, 2024, 309, 04022.	0.2	0
24	Stochastically structured illumination microscopy scan less super resolution imaging. npj Imaging, 2024, 2, .	2.8	4
25	Is the mechanism of “fast sound” the same in liquids with long-range interactions and disparate mass metallic alloys?. Journal of Chemical Physics, 2024, 161, .	2.2	1
26	Computational models of dopamine release measured by fast scan cyclic voltammetry in vivo. PNAS Nexus, 2023, 2, .	2.4	7
27	A low-cost, label-free microfluidic scanning flow cytometer for high-accuracy quantification of size and refractive index of particles. Lab on A Chip, 2023, 23, 2039-2047.	4.0	9
28	Retinal fingerprints of ALS in patients: Ganglion cell apoptosis and TDP-43/p62 misplacement. Frontiers in Aging Neuroscience, 2023, 15, .	2.7	20
29	Electrostatic complementarity at the interface drives transient protein-protein interactions. Scientific Reports, 2023, 13, .	2.7	53
30	Differences in the organization of interface residues tunes the stability of the SARS-CoV-2 spike-ACE2 complex. Frontiers in Molecular Biosciences, 2023, 10, .	2.4	8
31	A model eye for fluorescent characterization of retinal cultures and tissues. Scientific Reports, 2023, 13, .	2.7	8
32	Ab initio study of collective eigenmodes in dynamics of molten salts. Journal of Molecular Liquids, 2023, 387, 122622.	3.9	8
33	Collective behavior and self-organization in neural rosette morphogenesis. Frontiers in Cell and Developmental Biology, 2023, 11, .	2.8	34
34	Modeling of olfactory transduction in AWC ON neuron via coupled electrical-calcium dynamics. Biomolecular Concepts, 2023, 14, .	1.6	2
35	Biomimetic 3D bioprinting approaches to engineer the tumor microenvironment. International Journal of Bioprinting, 2023, 9, 1022.	2.5	11
36	Stress fluctuations and adiabatic speed of sound in liquids: a simple way to estimate it from ab initio simulations. Scientific Reports, 2023, 13, .	2.7	6

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37	Physics-informed deep neural network for image denoising. Optics Express, 2023, 31, 43838.	2.3	20
38	Heterogeneous-elasticity theory of instantaneous normal modes in liquids. Scientific Reports, 2023, 13, .	2.7	2
39	Inferring the stabilization effects of SARS-CoV-2 variants on the binding with ACE2 receptor. Communications Biology, 2022, 5, .	3.1	33
40	Thermometer: a webserver to predict protein thermal stability. Bioinformatics, 2022, 38, 2060-2061.	3.2	22
41	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.	1.9	16
42	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, .	5.2	12
43	Supervised perceptron learning vs unsupervised Hebbian unlearning: Approaching optimal memory retrieval in Hopfield-like networks. Journal of Chemical Physics, 2022, 156, .	2.2	21
44	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, .	2.7	26
45	Computational Modeling of the Thermodynamics of the Mesophilic and Thermophilic Mutants of Trp-Cage Miniprotein. ACS Omega, 2022, 7, 13448-13454.	3.4	6
46	A novel computational strategy for defining the minimal protein molecular surface representation. PLoS ONE, 2022, 17, e0266004.	1.5	5
47	Lactoferrin Inhibition of the Complex Formation between ACE2 Receptor and SARS CoV-2 Recognition Binding Domain. International Journal of Molecular Sciences, 2022, 23, 5436.	3.2	23
48	Deep learning for blind structured illumination microscopy. Scientific Reports, 2022, 12, .	2.7	27
49	Direct Visualization and Identification of Membrane Voltage-Gated Sodium Channels from Human iPSC-Derived Neurons by Multiple Imaging and Light Enhanced Spectroscopy. Small Methods, 2022, 6, .	5.9	5
50	Shape Complementarity Optimization of Antibody–Antigen Interfaces: The Application to SARS-CoV-2 Spike Protein. Frontiers in Molecular Biosciences, 2022, 9, .	2.4	15
51	Worldwide bilateral geopolitical interactions network inferred from national disciplinary profiles. Physical Review Research, 2022, 4, .	2.5	1
52	Spatial organization of hydrophobic and charged residues affects protein thermal stability and binding affinity. Scientific Reports, 2022, 12, .	2.7	94
53	Modelling skeletal pain harnessing tissue engineering. In Vitro Models, 2022, 1, 289-307.	1.3	16
54	Comment on “Deformations, relaxation, and broken symmetries in liquids, solids, and glasses: A unified topological field theory”. Physical Review E, 2022, 106, .	1.5	2

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55	Physics-informed machine learning for microscopy. EPJ Web of Conferences, 2022, 266, 04007.	0.2	1
56	Nonacoustic high-frequency collective excitations in a ZrCuAl metallic glass. Physical Review B, 2022, 106, .	2.4	2
57	Mitochondria inter-organelle relationships in cancer protein aggregation. Frontiers in Cell and Developmental Biology, 2022, 10, .	2.8	10
58	Comment on “Explaining the specific heat of liquids based on instantaneous normal modes”. Physical Review E, 2022, 106, .	1.5	4
59	A recurrent neural network model of C. elegans responses to aversive stimuli. Neurocomputing, 2021, 430, 1-13.	4.8	15
60	Exploring the Association Between Sialic Acid and SARS-CoV-2 Spike Protein Through a Molecular Dynamics-Based Approach. Frontiers in Medical Technology, 2021, 2, .	2.4	34
61	2D Zernike polynomial expansion: Finding the protein-protein binding regions. Computational and Structural Biotechnology Journal, 2021, 19, 29-36.	2.7	42
62	Computational optimization of angiotensin-converting enzyme 2 for SARS-CoV-2 Spike molecular recognition. Computational and Structural Biotechnology Journal, 2021, 19, 3006-3014.	2.7	20
63	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, .	2.4	52
64	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, .	5.2	1
65	Molecular Mechanisms Behind Anti SARS-CoV-2 Action of Lactoferrin. Frontiers in Molecular Biosciences, 2021, 8, .	2.4	51
66	Comment on “Collective modes and gapped momentum states in liquid Ga: Experiment, theory, and simulation”. Physical Review B, 2021, 103, .	2.4	3
67	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, .	5.2	39
68	Does blood type affect the COVID-19 infection pattern?. PLoS ONE, 2021, 16, e0251535.	1.5	30
69	Comment on “Universal Effect of Excitation Dispersion on the Heat Capacity and Gapped States in Fluids”. Physical Review Letters, 2021, 126, .	5.8	2
70	Computational optimization of transcranial focused ultrasound stimulation: Toward noninvasive, selective stimulation of deep brain structures. Applied Physics Letters, 2021, 118, .	2.3	3
71	In-Silico Evidence for a Two Receptor Based Strategy of SARS-CoV-2. Frontiers in Molecular Biosciences, 2021, 8, .	2.4	81
72	Spatial coherence of light inside three-dimensional media. Nature Communications, 2021, 12, .	10.8	9

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73	Asymmetric binomial statistics explains organelle partitioning variance in cancer cell proliferation. Communications Physics, 2021, 4, .	3.5	16
74	Transverse and Quantum Localization of Light: A Review on Theory and Experiments. Frontiers in Physics, 2021, 9, .	1.3	2
75	C. elegans-based chemosensation strategy for the early detection of cancer metabolites in urine samples. Scientific Reports, 2021, 11, .	2.7	33
76	Quantitative Description of Surface Complementarity of Antibody-Antigen Interfaces. Frontiers in Molecular Biosciences, 2021, 8, .	2.4	8
77	Alignment interactions drive structural transitions in biological tissues. Physical Review E, 2021, 104, .	1.5	13
78	Comment on “Universal Origin of Boson Peak Vibrational Anomalies in Ordered Crystals and in Amorphous Materials”. Physical Review Letters, 2021, 127, .	5.8	8
79	A Computational Approach to Investigate TDP-43 RNA-Recognition Motif 2 C-Terminal Fragments Aggregation in Amyotrophic Lateral Sclerosis. Biomolecules, 2021, 11, 1905.	3.1	10
80	Sources and uses of knowledge in a dynamic network technology. International Transactions in Operational Research, 2020, 27, 1821-1844.	2.6	7
81	Network dilution and asymmetry in an efficient brain. Philosophical Magazine, 2020, 100, 2544-2555.	0.8	9
82	Bioprinting stem cells: building physiological tissues one cell at a time. American Journal of Physiology - Cell Physiology, 2020, 319, C465-C480.	2.9	29
83	A novel strategy for molecular interfaces optimization: The case of Ferritin-Transferrin receptor interaction. Computational and Structural Biotechnology Journal, 2020, 18, 2678-2686.	2.7	12
84	Non-hydrodynamic modes in viscoelastic behaviour of simple fluids. Philosophical Magazine, 2020, 100, 2568-2581.	0.8	4
85	Reconstructing Nonparametric Productivity Networks. Entropy, 2020, 22, 1401.	1.2	7
86	On the Number of Limit Cycles in Diluted Neural Networks. Journal of Statistical Physics, 2020, 181, 2304-2321.	0.8	9
87	MLL4-associated condensates counterbalance Polycomb-mediated nuclear mechanical stress in Kabuki syndrome. Nature Genetics, 2020, 52, 1397-1411.	14.1	88
88	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.	1.6	24
89	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.	3.9	12
90	Sound damping in glasses: Interplay between anharmonicities and elastic heterogeneities. Physical Review B, 2020, 101, .	2.4	22

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91	Simulated Epidemics in 3D Protein Structures to Detect Functional Properties. Journal of Chemical Information and Modeling, 2020, 60, 1884-1891.	3.2	18
92	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.	1.0	6
93	Novel Approaches to the Development and Application of Informetric and Scientometric Tools. Journal of Data and Information Science, 2020, 5, 1-4.	1.0	0
94	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, .	2.4	2
95	Probing the Debye spectrum in glasses using small system sizes. Physical Review Research, 2020, 2, .	2.5	10
96	Novel Approaches to the Development and Application of Informetric and Scientometric Tools. Journal of Data and Information Science, 2020, 5, 1-4.	1.0	0
97	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, .	2.0	156
98	Theory of elastic constants of athermal amorphous solids with internal stresses. Granular Matter, 2019, 21, .	2.0	30
99	Biophysical modeling of C. elegans neurons: Single ion currents and whole-cell dynamics of AWCon and RMD. PLoS ONE, 2019, 14, e0218738.	1.5	44
100	Beyond the Maximum Storage Capacity Limit in Hopfield Recurrent Neural Networks. Entropy, 2019, 21, 726.	1.2	29
101	Self-consistent Euclidean-random-matrix theory. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 464002.	1.3	12
102	Relation between Heterogeneous Frozen Regions in Supercooled Liquids and Non-Debye Spectrum in the Corresponding Glasses. Physical Review Letters, 2019, 123, .	5.8	18
103	Investigation of the binding between olfactory receptors and odorant molecules in C. elegans organism. Biophysical Chemistry, 2019, 255, 106264.	1.4	8
104	Brillouin microscopy: an emerging tool for mechanobiology. Nature Methods, 2019, 16, 969-977.	13.1	472
105	On the number of limit cycles in asymmetric neural networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 053402.	1.2	16
106	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, .	7.6	103
107	Scattering Assisted Imaging. Scientific Reports, 2019, 9, .	2.7	12
108	Microglia-Derived Microvesicles Affect Microglia Phenotype in Glioma. Frontiers in Cellular Neuroscience, 2019, 13, .	2.4	64

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109	Demonstration of self-healing and scattering resilience of acoustic Bessel beams. Applied Physics Letters, 2019, 114, .	2.3	17
110	Quantifying cellular forces and biomechanical properties by correlative micropillar traction force and Brillouin microscopy. Biomedical Optics Express, 2019, 10, 2202.	1.9	25
111	Analysis of high frame-rate movies by variational methods. Mathematics for Applications, 2019, 8, 59-77.	0.1	0
112	Perspectives on cavitation enhanced endothelial layer permeability. Colloids and Surfaces B: Biointerfaces, 2018, 168, 83-93.	4.4	54
113	Effect of dilution in asymmetric recurrent neural networks. Neural Networks, 2018, 104, 50-59.	5.3	34
114	What is the Right Theory for Anderson Localization of Light? An Experimental Test. Physical Review Letters, 2018, 120, .	5.8	26
115	Cancellation of Bessel beam side lobes for high-contrast light sheet microscopy. Scientific Reports, 2018, 8, .	2.7	52
116	Background-deflection Brillouin microscopy reveals altered biomechanics of intracellular stress granules by ALS protein FUS. Communications Biology, 2018, 1, .	3.1	69
117	The Mixing of Polarizations in the Acoustic Excitations of Disordered Media With Local Isotropy. Frontiers in Physics, 2018, 6, .	1.3	5
118	Comment on “Emergence and Evolution of the k Gap in Spectra of Liquid and Supercritical States”. Physical Review Letters, 2018, 120, .	5.8	16
119	Assessing the interdependencies between scientific disciplinary profiles. Scientometrics, 2018, 116, 1785-1803.	1.6	6
120	Hyperuniformity in amorphous speckle patterns. Optics Express, 2018, 26, 15594.	2.3	14
121	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.	5.2	61
122	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, .	6.6	159
123	Disorder-induced single-mode transmission. Nature Communications, 2017, 8, .	10.8	39
124	Isotopic Effect on the Gel and Glass Formation of a Charged Colloidal Clay: Laponite. Journal of Physical Chemistry B, 2017, 121, 4576-4582.	2.0	12
125	Do social sciences and humanities behave like life and hard sciences?. Scientometrics, 2017, 112, 607-653.	1.6	26
126	Diffraction-free light droplets for axially-resolved volume imaging. Scientific Reports, 2017, 7, .	2.7	83

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127	Analytical description of the transverse Anderson localization of light. Journal of Optics (United Kingdom), 2017, 19, 045602.	1.5	3
128	Behavior of Supercritical Fluids across the “Frenkel Line”. Journal of Physical Chemistry Letters, 2017, 8, 4995-5001.	2.9	64
129	Relaxation is a Two-Step Process for Metallic Glasses. Physics Magazine, 2017, 10, .	0.0	4
130	Bibliometric indicators: the origin of their log-normal distribution and why they are not a reliable proxy for an individual scholar’s talent. Palgrave Communications, 2017, 3, .	3.2	23
131	Moment-Preserving Theory of Vibrational Dynamics of Topologically Disordered Systems. Frontiers in Physics, 2017, 5, .	1.3	3
132	On the Maximum Storage Capacity of the Hopfield Model. Frontiers in Computational Neuroscience, 2017, 10, .	1.6	41
133	Breaking the Contrast Limit in Single-Pass Fabry-Pérot Spectrometers. Physical Review Applied, 2016, 6, .	2.8	28
134	Theory of heterogeneous viscoelasticity. Philosophical Magazine, 2016, 96, 620-635.	0.8	7
135	Laser propulsion of nanobullets by adiabatic compression of surface plasmon polaritons. Scientific Reports, 2015, 5, .	2.7	3
136	Heterogeneous Viscoelasticity: A Combined Theory of Dynamic and Elastic Heterogeneity. Physical Review Letters, 2015, 115, .	5.8	45
137	P0532 : HBx-DLEU2 lncRNA complex affects transcription of new target promoters. Journal of Hepatology, 2015, 62, S514-S515.	6.7	1
138	Structural and microscopic relaxations in a colloidal glass. Soft Matter, 2015, 11, 466-471.	1.9	45
139	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, .	2.2	38
140	Theory of vibrational anomalies in glasses. Journal of Non-Crystalline Solids, 2015, 407, 133-140.	2.6	67
141	Dynamic light scattering study of temperature and pH sensitive colloidal microgels. Journal of Non-Crystalline Solids, 2015, 407, 361-366.	2.6	25
142	Dual aging behaviour in a clay–polymer dispersion. Soft Matter, 2014, 10, 4513.	1.9	19
143	A quantitative measure to compare the disciplinary profiles of research systems and their evolution over time. Journal of Informetrics, 2014, 8, 710-727.	1.9	16
144	Charge-density correlations in pressurized liquid lithium calculated usingab initiomolecular dynamics. Physical Review B, 2014, 90, .	2.4	10

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145	Collective excitations in soft-sphere fluids. Physical Review E, 2014, 90, .	1.5	33
146	Aging behavior of the localization length in a colloidal glass. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 118-122.	4.2	20
147	Glass–glass transition during aging of a colloidal clay. Nature Communications, 2014, 5, .	10.8	120
148	Period doubling induced by thermal noise amplification in genetic circuits. Scientific Reports, 2014, 4, .	2.7	3
149	Dynamical Crossover at the Liquid-Liquid Transformation of a Compressed Molten Alkali Metal. Physical Review Letters, 2013, 111, .	5.8	33
150	An empirical approach to compare the performance of heterogeneous academic fields. Scientometrics, 2013, 97, 601-625.	1.6	12
151	Coherent potential approximation for diffusion and wave propagation in topologically disordered systems. Physical Review B, 2013, 88, .	2.4	39
152	Acoustic dynamics of network-forming glasses at mesoscopic wavelengths. Nature Communications, 2013, 4, .	10.8	55
153	Dichotomic aging behaviour in a colloidal glass. Soft Matter, 2013, 9, 10955.	1.9	73
154	Dynamics and Thermodynamics beyond the critical point. Scientific Reports, 2013, 3, .	2.7	85
155	Generalised hydrodynamic description of the time correlation functions of liquid metals:ab initiomolecular dynamics study. Molecular Physics, 2013, 111, 3457-3464.	1.1	19
156	Structural disorder and anomalous diffusion in random packing of spheres. Scientific Reports, 2013, 3, .	2.7	49
157	Landau-Placzek ratio for heat density dynamics and its application to heat capacity of liquids. Journal of Chemical Physics, 2013, 138, .	2.2	16
158	Vibrational anomalies and marginal stability of glasses. European Physical Journal: Special Topics, 2013, 216, 83-93.	1.0	27
159	Heterogeneous shear elasticity of glasses: the origin of the boson peak. Scientific Reports, 2013, 3, .	2.7	187
160	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, .	5.8	11
161	Transport of self-propelling bacteria in micro-channel flow. Journal of Physics Condensed Matter, 2012, 24, 065101.	1.6	62
162	Low energy neutron production by inverse β decay in metallic hydride surfaces. European Physical Journal C, 2012, 72, .	3.0	4

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163	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.	2.8	7
164	Single-Molecule Imaging with X-Ray Free-Electron Lasers: Dream or Reality?. Physical Review Letters, 2011, 106, .	5.8	57
165	Vibrational dynamics and surface structure of amorphous selenium. Nature Communications, 2011, 2, .	10.8	43
166	Longitudinal acoustic compliance and tagged particle susceptibility in liquid and supercooled glycerol. Journal of Non-Crystalline Solids, 2011, 357, 515-517.	2.6	1
167	Spatio-temporal anomalous diffusion in heterogeneous media by nuclear magnetic resonance. Journal of Chemical Physics, 2011, 135, .	2.2	51
168	Nonergodicity Factor, Fragility, and Elastic Properties of Polymeric Glassy Sulfur. Journal of Physical Chemistry B, 2011, 115, 14052-14063.	2.0	27
169	Pressure behavior of the sound velocity of liquid water at room temperature in the terahertz regime. Physical Review B, 2011, 84, .	2.4	6
170	Acoustic Dissipation and Density of States in Liquid, Supercooled, and Glassy Glycerol. Physical Review Letters, 2011, 106, .	5.8	6
171	Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustics approach. Applied Physics Letters, 2011, 98, 011901.	2.3	40
172	Generalized collective excitations in supercritical argon. Molecular Physics, 2011, 109, 2929-2934.	1.1	8
173	Computer simulation study of thermodynamic scaling of dynamics of 2Ca(NO3)2·3KNO3. Journal of Chemical Physics, 2011, 135, .	2.2	22
174	The Widom line as the crossover between liquid-like and gas-like behaviour in supercritical fluids. Nature Physics, 2010, 6, 503-507.	10.6	575
175	Collective excitations in supercritical fluids: Analytical and molecular dynamics study of “positive” and “negative” dispersion. Journal of Chemical Physics, 2010, 133, .	2.2	61
176	Competing Interactions in Arrested States of Colloidal Clays. Physical Review Letters, 2010, 104, .	5.8	83
177	Universal relation between viscous flow and fast dynamics in glass-forming materials. Physical Review B, 2010, 81, .	2.4	35
178	Elastic properties of permanently densified silica: A Raman, Brillouin light, and x-ray scattering study. Physical Review B, 2010, 81, .	2.4	55
179	Generalized fluctuation-dissipation relation and effective temperature in off-equilibrium colloids. Physical Review B, 2010, 81, .	2.4	27
180	Bacterial ratchet motors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9541-9545.	5.2	675

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181	Relation among optical, thermal and thermo-optical properties and niobium concentration in tellurite glasses. Journal of Non-Crystalline Solids, 2010, 356, 2146-2150.	2.6	35
182	Inelastic x-ray scattering from high pressure fluids in a diamond anvil cell. Applied Physics Letters, 2009, 94, .	2.3	15
183	Reply to “Comment on ‘Phase diagram of a solution undergoing inverse melting’ ”. Physical Review E, 2009, 79, .	1.5	4
184	Observation of a Gradient Catastrophe Generating Solitons. Physical Review Letters, 2009, 102, .	5.8	145
185	Characterization of archeological human bone tissue by enhanced backscattering of light. Applied Physics Letters, 2009, 94, .	2.3	5
186	Phase Diagram and Complexity of Mode-Locked Lasers: From Order to Disorder. Physical Review Letters, 2009, 102, .	5.8	70
187	High frequency dynamics in liquids and supercritical fluids: A comparative inelastic x-ray scattering study. Journal of Chemical Physics, 2009, 130, .	2.2	31
188	Optical trapping studies of colloidal interactions in liquid films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 343, 133-136.	4.2	3
189	Prigogine–Defay Ratio for an Ionic Glass-Former: Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2009, 113, 3099-3104.	2.0	13
190	Collective Thermal Diffusion of Silica Colloids Studied by Nonlinear Optics. Langmuir, 2009, 25, 12495-12500.	3.0	24
191	Slow dynamics of liquid Se studied by Infrared Photon Correlation Spectroscopy. Journal of Non-Crystalline Solids, 2009, 355, 1797-1800.	2.6	3
192	Ultrashort pulse propagation and the Anderson localization. Optics Letters, 2009, 34, 130.	2.2	36
193	Colloidal Attraction Induced by a Temperature Gradient. Langmuir, 2009, 25, 4247-4250.	3.0	75
194	Self-Starting Micromotors in a Bacterial Bath. Physical Review Letters, 2009, 102, .	5.8	265
195	Time-Dependent Nonlinear Optical Susceptibility of an Out-of-Equilibrium Soft Material. Physical Review Letters, 2009, 102, .	5.8	21
196	Kinetics of formation of supramolecular tubules of a sodium cholate derivative. Soft Matter, 2009, 5, 3018.	1.9	51
197	Comparison of Faxén’s correction for a microsphere translating or rotating near a surface. Physical Review E, 2009, 79, .	1.5	164
198	Saddles of the energy landscape and folding of model proteins. Europhysics Letters, 2009, 87, 18002.	1.3	4

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