

Giancarlo Ruocco

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425
papers

13,145
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h-index

95
g-index

476
ext. papers

14,509
ext. citations

4.8
avg, IF

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L-index

#	Paper	IF	Citations
425	Bacterial ratchet motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9541-5	11.5	425
424	The Widom line as the crossover between liquid-like and gas-like behaviour in supercritical fluids. <i>Nature Physics</i> , 2010 , 6, 503-507	16.2	308
423	Dynamics of Glasses and Glass-Forming Liquids Studied by Inelastic X-ray Scattering. <i>Science</i> , 1998 , 280, 1550-1555	33.3	286
422	Computer generation of optimal holograms for optical trap arrays. <i>Optics Express</i> , 2007 , 15, 1913-22	3.3	276
421	Microscopic dynamics in liquid metals: The experimental point of view. <i>Reviews of Modern Physics</i> , 2005 , 77, 881-933	40.5	254
420	Is the fragility of a liquid embedded in the properties of its glass?. <i>Science</i> , 2003 , 302, 849-52	33.3	254
419	Acoustic attenuation in glasses and its relation with the boson peak. <i>Physical Review Letters</i> , 2007 , 98, 025501	7.4	215
418	Collective dynamics in water by high energy resolution inelastic X-ray scattering. <i>Physical Review Letters</i> , 1995 , 75, 850-853	7.4	214
417	Saddles in the energy landscape probed by supercooled liquids. <i>Physical Review Letters</i> , 2000 , 85, 5356-9	7.4	195
416	Self-starting micromotors in a bacterial bath. <i>Physical Review Letters</i> , 2009 , 102, 048104	7.4	189
415	Evidence of High Frequency Propagating Modes in Vitreous Silica. <i>Physical Review Letters</i> , 1996 , 77, 3835-8	7.4	182
414	Shocks in nonlocal media. <i>Physical Review Letters</i> , 2007 , 99, 043903	7.4	171
413	Transition from Normal to Fast Sound in Liquid Water. <i>Physical Review Letters</i> , 1996 , 77, 83-86	7.4	155
412	Viscoelastic behavior of water in the terahertz-frequency range: an inelastic x-ray scattering study. <i>Physical Review E</i> , 1999 , 60, 5505-21	2.4	147
411	Amorphous silica-like carbon dioxide. <i>Nature</i> , 2006 , 441, 857-60	50.4	138
410	A perfect crystal X-ray analyser with meV energy resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 111, 181-186	1.2	130
409	Routes to gelation in a clay suspension. <i>Physical Review Letters</i> , 2004 , 93, 258301	7.4	125

408	Mixing of Longitudinal and Transverse Dynamics in Liquid Water. <i>Physical Review Letters</i> , 1997 , 79, 1678-1681	7.4	122
407	More on the phase diagram of Laponite. <i>Langmuir</i> , 2006 , 22, 1106-11	4	121
406	Connected Network of Minima as a Model Glass: Long Time Dynamics. <i>Physical Review Letters</i> , 1998 , 81, 4648-4651	7.4	121
405	X-ray Monochromator with 2×10^8 Energy Resolution. <i>Journal of Synchrotron Radiation</i> , 1996 , 3, 62-4	2.4	118
404	Observation of a gradient catastrophe generating solitons. <i>Physical Review Letters</i> , 2009 , 102, 083902	7.4	116
403	Dynamically correlated regions and configurational entropy in supercooled liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10652-8	3.4	115
402	Heterogeneous shear elasticity of glasses: the origin of the boson peak. <i>Scientific Reports</i> , 2013 , 3, 1407	4.9	113
401	Equivalence of the sound velocity in water and ice at mesoscopic wavelengths. <i>Nature</i> , 1996 , 379, 521-523	5.4	110
400	Comparison of FaxB's correction for a microsphere translating or rotating near a surface. <i>Physical Review E</i> , 2009 , 79, 026301	2.4	104
399	Relaxation processes in harmonic glasses?. <i>Physical Review Letters</i> , 2000 , 84, 5788-91	7.4	101
398	Brillouin microscopy: an emerging tool for mechanobiology. <i>Nature Methods</i> , 2019 , 16, 969-977	21.6	99
397	Low-frequency atomic motion in a model glass. <i>Europhysics Letters</i> , 1996 , 34, 681-686	1.6	98
396	The high-frequency dynamics of liquid water. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, R259-R293	1.8	97
395	Observation of large momentum phononlike modes in glasses. <i>Physical Review Letters</i> , 1996 , 76, 3356-3359	7.4	97
394	High-frequency longitudinal and transverse dynamics in water. <i>Physical Review E</i> , 2005 , 71, 011501	2.4	90
393	Evidence for a crossover in the frequency dependence of the acoustic attenuation in vitreous silica. <i>Physical Review Letters</i> , 2006 , 97, 035501	7.4	86
392	A perfect crystal X-ray analyser with 1.5 meV energy resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 117, 339-340	1.2	85
391	Glass-glass transition during aging of a colloidal clay. <i>Nature Communications</i> , 2014 , 5, 4049	17.4	84

- 390 Liquidlike behavior of supercritical fluids. *Physical Review Letters*, **2006**, 97, 245702 7.4 81
- 389 Optical spatial solitons in soft matter. *Physical Review Letters*, **2005**, 95, 183902 7.4 81
- 388 Off-equilibrium effective temperature in monatomic Lennard-Jones glass. *Physical Review Letters*, **2000**, 84, 6054-7 7.4 80
- 387 Nondynamic Origin of the High-Frequency Acoustic Attenuation in Glasses. *Physical Review Letters*, **1999**, 83, 5583-5586 7.4 80
- 386 Landscapes and fragilities. *Journal of Chemical Physics*, **2004**, 120, 10666-80 3.9 79
- 385 Condensation in disordered lasers: theory, 3D+1 simulations, and experiments. *Physical Review Letters*, **2008**, 101, 143901 7.4 78
- 384 Evidence of two viscous relaxation processes in the collective dynamics of liquid lithium. *Physical Review Letters*, **2000**, 85, 4076-9 7.4 78
- 383 The Raman coupling function in amorphous silica and the nature of the long-wavelength excitations in disordered systems. *Europhysics Letters*, **1999**, 47, 56-62 1.6 78
- 382 Density fluctuations in molten lithium: inelastic x-ray scattering study. *Journal of Physics Condensed Matter*, **2000**, 12, 8009-8034 1.8 76
- 381 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 9.8 75
- 380 Fast sound in liquid water. *Physical Review E*, **1993**, 47, 1677-1684 2.4 74
- 379 Analysis of the network topology in liquid water and hydrogen sulphide by computer simulation. *Journal of Chemical Physics*, **1992**, 96, 6167-6176 3.9 72
- 378 Competing interactions in arrested States of colloidal clays. *Physical Review Letters*, **2010**, 104, 085701 7.4 71
- 377 High-resolution low-frequency Raman spectra of liquid H₂O and D₂O. *Journal of Chemical Physics*, **1990**, 93, 7767-7773 3.9 70
- 376 High Frequency Sound Waves in Vitreous Silica. *Physical Review Letters*, **1998**, 80, 1236-1239 7.4 69
- 375 Theoretical and computer-simulation study of the density fluctuations in liquid water. *Physical Review A*, **1989**, 40, 7226-7238 2.6 69
- 374 Nature of the short wavelength excitations in vitreous silica: An X-Ray brillouin scattering study. *Physical Review Letters*, **2000**, 85, 2136-9 7.4 66
- 373 High-frequency vibrational dynamics in glasses. *Journal of Physics Condensed Matter*, **2001**, 13, 9141-9164.8 66

372	Evidence of anomalous dispersion of the generalized sound velocity in glasses. <i>Physical Review B</i> , 2004 , 69,	3.3	65
371	Glassy behavior of light. <i>Physical Review Letters</i> , 2006 , 96, 065702	7.4	64
370	Experimental Determination of the Structural Relaxation in Liquid Water. <i>Physical Review Letters</i> , 1999 , 82, 775-778	7.4	64
369	Collective dynamics of liquid aluminum probed by inelastic x-ray scattering. <i>Physical Review E</i> , 2000 , 63,	2.4	63
368	Dynamics and Thermodynamics beyond the critical point. <i>Scientific Reports</i> , 2013 , 3, 1203	4.9	61
367	Colloidal attraction induced by a temperature gradient. <i>Langmuir</i> , 2009 , 25, 4247-50	4	60
366	Inelastic x-ray scattering study of the collective dynamics in liquid sodium. <i>Physical Review E</i> , 2002 , 65, 031205	2.4	60
365	Molecular dynamics simulation of the fragile glass-former orthoterphenyl: A flexible molecule model. <i>Physical Review E</i> , 2000 , 62, 612-30	2.4	60
364	Computer simulation of polarizable fluids: a consistent and fast way for dealing with polarizability and hyperpolarizability. <i>Molecular Physics</i> , 1994 , 82, 875-886	1.7	60
363	Topological signature of first-order phase transitions in a mean-field model. <i>Europhysics Letters</i> , 2003 , 62, 775-781	1.6	59
362	High Frequency Dynamics of Glass Forming Liquids at the Glass Transition. <i>Physical Review Letters</i> , 1998 , 80, 544-547	7.4	59
361	Arrested state of clay-water suspensions: gel or glass?. <i>Physical Review E</i> , 2008 , 77, 020402	2.4	58
360	High-frequency propagating modes in vitreous silica at 295 K. <i>Physical Review B</i> , 1997 , 55, 8049-8051	3.3	56
359	Dichotomic aging behaviour in a colloidal glass. <i>Soft Matter</i> , 2013 , 9, 10955	3.6	54
358	Multipoint holographic optical velocimetry in microfluidic systems. <i>Physical Review Letters</i> , 2006 , 96, 134502	7.4	54
357	Glass transition and density fluctuations in the fragile glass former orthoterphenyl. <i>Physical Review E</i> , 2001 , 63, 061502	2.4	54
356	Phase diagram and complexity of mode-locked lasers: from order to disorder. <i>Physical Review Letters</i> , 2009 , 102, 083901	7.4	53
355	Vibrational excitations in systems with correlated disorder. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 862-866		53

354	Pressure evolution of the high-frequency sound velocity in liquid water. <i>Physical Review Letters</i> , 2002 , 89, 125502	7.4	53
353	Transport of self-propelling bacteria in micro-channel flow. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 065101	1.8	50
352	High-frequency dynamics in metallic glasses. <i>Physical Review Letters</i> , 2006 , 96, 135501	7.4	50
351	Parametric resonance of optically trapped aerosols. <i>Physical Review Letters</i> , 2007 , 99, 010601	7.4	50
350	Molecular dynamics results for stretched water. <i>Journal of Chemical Physics</i> , 1993 , 99, 8095-8104	3.9	50
349	The low energy excess of vibrational states in v-SiO ₂ : the role of transverse dynamics. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 8519-8530	1.8	49
348	Structural relaxation in liquid water by inelastic UV scattering. <i>Physical Review Letters</i> , 2004 , 92, 255507	7.4	48
347	Size effects and quasilocalized vibrations. <i>Philosophical Magazine</i> , 2004 , 84, 1361-1372	1.6	48
346	Determination of the Infinite Frequency Sound Velocity in the Glass Former o-Terphenyl. <i>Physical Review Letters</i> , 1998 , 80, 2161-2164	7.4	48
345	3D models in the new era of immune oncology: focus on T cells, CAF and ECM. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019 , 38, 117	12.8	47
344	Numerical study of Raman scattering from fractals. <i>Physical Review Letters</i> , 1990 , 65, 1136-1139	7.4	47
343	A new class of multiple dispersion grating spectrometers. <i>Journal of Physics E: Scientific Instruments</i> , 1988 , 21, 798-804		47
342	On the analysis of the vibrational Boson peak and low-energy excitations in glasses. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 4541-4551	3.9	46
341	Quasisaddles as relevant points of the potential energy surface in the dynamics of supercooled liquids. <i>Journal of Chemical Physics</i> , 2002 , 116, 10297-10306	3.9	46
340	Neuroinflammatory Processes, A1 Astrocyte Activation and Protein Aggregation in the Retina of Alzheimer's Disease Patients, Possible Biomarkers for Early Diagnosis. <i>Frontiers in Neuroscience</i> , 2019 , 13, 925	5.1	45
339	Kinetics of formation of supramolecular tubules of a sodium cholate derivative. <i>Soft Matter</i> , 2009 , 5, 3018	3.6	45
338	High-frequency dynamics of glass-forming polybutadiene. <i>Physical Review E</i> , 1999 , 59, 4470-4475	2.4	45
337	Single-molecule imaging with x-ray free-electron lasers: dream or reality?. <i>Physical Review Letters</i> , 2011 , 106, 105504	7.4	44

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335	High-frequency acoustic modes in liquid gallium at the melting point. <i>Physical Review Letters</i> , 2002 , 89, 255506	7.4	44
334	Contrasting behaviour of acoustic modes in network and non-network glasses. <i>Europhysics Letters</i> , 2001 , 54, 77-83	1.6	44
333	Collective excitations in supercritical fluids: analytical and molecular dynamics study of "positive" and "negative" dispersion. <i>Journal of Chemical Physics</i> , 2010 , 133, 024502	3.9	43
332	Elastic properties of permanently densified silica: A Raman, Brillouin light, and x-ray scattering study. <i>Physical Review B</i> , 2010 , 81,	3.3	43
331	Fast Relaxational Dynamics in the o-Terphenyl Glass. <i>Physical Review Letters</i> , 1999 , 82, 1776-1779	7.4	43
330	Free-energy transition in a gas of noninteracting nonlinear wave particles. <i>Physical Review Letters</i> , 2008 , 101, 044101	7.4	42
329	High frequency dynamics in a monatomic glass. <i>Physical Review Letters</i> , 2004 , 92, 025503	7.4	42
328	Microscopic relaxation in supercritical and liquid neon. <i>Journal of Chemical Physics</i> , 2001 , 114, 2259-2267	3.9	42
327	Spatio-temporal anomalous diffusion in heterogeneous media by nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2011 , 135, 034504	3.9	41
326	Potential energy landscape and long-time dynamics in a simple model glass. <i>Physical Review E</i> , 2000 , 61, 1681-91	2.4	41
325	Diffraction-free light droplets for axially-resolved volume imaging. <i>Scientific Reports</i> , 2017 , 7, 17	4.9	40
324	Acoustic dynamics of network-forming glasses at mesoscopic wavelengths. <i>Nature Communications</i> , 2013 , 4, 1793	17.4	40
323	Raman spectra of water in the translational and librational regions. <i>Molecular Physics</i> , 1989 , 67, 19-31	1.7	39
322	Glassy behavior of light in random lasers. <i>Physical Review B</i> , 2006 , 74,	3.3	38
321	Raman spectra of water in the translational and librational regions. <i>Molecular Physics</i> , 1987 , 61, 1199-1212	1.7	38
320	Eigenmodes of a hydrodynamically coupled micron-size multiple-particle ring. <i>Physical Review E</i> , 2007 , 76, 061402	2.4	37
319	In-Silico evidence for two receptors based strategy of SARS-CoV-2		37

318	Structural disorder and anomalous diffusion in random packing of spheres. <i>Scientific Reports</i> , 2013 , 3, 2631	4.9	36
317	Hydrodynamic interactions in two dimensions. <i>Physical Review E</i> , 2008 , 78, 031406	2.4	36
316	Three-dimensional ab initio investigation of light-matter interaction in Mie lasers. <i>Physical Review A</i> , 2008 , 78,	2.6	36
315	Disorder-induced light scattering in solids: Microscopic theory and applications to some model systems. <i>Physical Review B</i> , 1991 , 44, 11734-11742	3.3	36
314	Hard-sphere-like dynamics in a non-hard-sphere liquid. <i>Physical Review Letters</i> , 2005 , 94, 155301	7.4	35
313	Theory of vibrational anomalies in glasses. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 133-140	3.9	34
312	Heterogeneous Viscoelasticity: A Combined Theory of Dynamic and Elastic Heterogeneity. <i>Physical Review Letters</i> , 2015 , 115, 015901	7.4	34
311	Temperature evolution of single particle correlation functions of liquid water. <i>Journal of Chemical Physics</i> , 1990 , 92, 2540-2547	3.9	34
310	Behavior of Supercritical Fluids across the "Frenkel Line". <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4995-5001	6.4	33
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307	Raman scattering from fractals: Simulation on large structures by the method of moments. <i>Physical Review B</i> , 1995 , 52, 3346-3355	3.3	33
306	Background-deflection Brillouin microscopy reveals altered biomechanics of intracellular stress granules by ALS protein FUS. <i>Communications Biology</i> , 2018 , 1, 139	6.7	33
305	Structural and microscopic relaxations in a colloidal glass. <i>Soft Matter</i> , 2015 , 11, 466-71	3.6	32
304	Origin of the lambda transition in liquid sulfur. <i>Physical Review Letters</i> , 2007 , 99, 025701	7.4	32
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302	Low-frequency Raman spectra of liquid water: A molecular dynamics simulation. <i>Chemical Physics Letters</i> , 1989 , 159, 383-387	2.5	32
301	The history of the "fast sound" in liquid water. <i>Condensed Matter Physics</i> , 2008 , 11, 29	1.3	32

300	Adiabatic and isothermal sound waves: The case of supercritical nitrogen. <i>Europhysics Letters</i> , 2006 , 75, 70-76	1.6	31
299	Aging after shear rejuvenation in a soft glassy colloidal suspension: evidence for two different regimes. <i>Physical Review E</i> , 2007 , 75, 011408	2.4	31
298	Ergodic to non-ergodic transition in low concentration Laponite. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S4993-S5002	1.8	31
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295	Universal relation between viscous flow and fast dynamics in glass-forming materials. <i>Physical Review B</i> , 2010 , 81,	3.3	30
294	High frequency dynamics in liquids and supercritical fluids: A comparative inelastic x-ray scattering study. <i>Journal of Chemical Physics</i> , 2009 , 130, 064501	3.9	30
293	High-frequency dynamics of liquid and supercritical water. <i>Physical Review E</i> , 2007 , 75, 051202	2.4	30
292	Phonon-like and single-particle dynamics in liquid lithium. <i>Europhysics Letters</i> , 2000 , 50, 189-195	1.6	30
291	Topological description of the aging dynamics in simple glasses. <i>Physical Review Letters</i> , 2001 , 87, 055502	2.4	30
290	Vibrational dynamics and Raman scattering in fractals: A numerical study. <i>Physical Review B</i> , 1992 , 45, 2126-2137	3.3	30
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288	Relation among optical, thermal and thermo-optical properties and niobium concentration in tellurite glasses. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2146-2150	3.9	29
287	Ultrashort pulse propagation and the Anderson localization. <i>Optics Letters</i> , 2009 , 34, 130-2	3	29
286	Thermal conductivity and terahertz vibrational dynamics of vitreous silica. <i>Physical Review B</i> , 2008 , 77,	3.3	29
285	Raman spectra of water in the translational and librational region. <i>Molecular Physics</i> , 1987 , 62, 1467-1481	1.7	29
284	Perspectives on cavitation enhanced endothelial layer permeability. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 168, 83-93	6	28
283	Structural and collisional relaxations in liquids and supercritical fluids. <i>Physical Review Letters</i> , 2007 , 98, 085501	7.4	28

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281	Induced contributions in the rayleigh spectra of water: A molecular dynamics simulation. <i>Chemical Physics Letters</i> , 1987 , 141, 297-300	2.5	28
280	Evidence of short-time dynamical correlations in simple liquids. <i>Physical Review E</i> , 2002 , 66, 031205	2.4	27
279	Pressure-Induced In-Glass Structural Transformation in the Amorphous Polymer Poly(methylmethacrylate). <i>Physical Review Letters</i> , 1998 , 80, 4205-4208	7.4	27
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277	Vibrational dynamics and surface structure of amorphous selenium. <i>Nature Communications</i> , 2011 , 2, 195	17.4	26
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275	Frustration and sound attenuation in structural glasses. <i>Physical Review Letters</i> , 2000 , 84, 4874-7	7.4	25
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269	Dynamical crossover at the liquid-liquid transformation of a compressed molten alkali metal. <i>Physical Review Letters</i> , 2013 , 111, 077801	7.4	23
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267	Topological properties of the mean-field ϕ^4 model. <i>Physical Review E</i> , 2004 , 70, 041101	2.4	23
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263	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. <i>Journal of Chemical Physics</i> , 2015 , 143, 104502	3.9	22
262	Dynamic light scattering study of temperature and pH sensitive colloidal microgels. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 361-366	3.9	22
261	Nonergodicity factor, fragility, and elastic properties of polymeric glassy sulfur. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14052-63	3.4	22
260	Influence of an adsorbing polymer on the aging dynamics of Laponite clay suspensions. <i>Philosophical Magazine</i> , 2008 , 88, 4213-4221	1.6	22
259	Ageing dynamics in Laponite dispersions at various salt concentrations. <i>Philosophical Magazine</i> , 2007 , 87, 449-458	1.6	22
258	Laser beam filamentation in fractal aggregates. <i>Physical Review Letters</i> , 2006 , 97, 123903	7.4	22
257	High-frequency transverse dynamics in glasses. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S1269-S1278	7.8	22
256	Molecular dynamics simulation of the fragile glass former orthoterphenyl: a flexible molecule model. II. Collective dynamics. <i>Physical Review E</i> , 2001 , 64, 021511	2.4	22
255	Brillouin and Umklapp scattering in polybutadiene: comparison of neutron and x-ray scattering. <i>Physical Review E</i> , 1999 , 60, R2464-7	2.4	22
254	Line broadening in the collective dynamics of liquid and solid water. <i>Physical Review B</i> , 1996 , 54, 14892-14895	3.9	22
253	Collective thermal diffusion of silica colloids studied by nonlinear optics. <i>Langmuir</i> , 2009 , 25, 12495-5004	4	21
252	Benassi et al. Reply. <i>Physical Review Letters</i> , 1997 , 78, 4670-4670	7.4	21
251	Collective dynamics in molten potassium: an inelastic x-ray scattering study. <i>Journal of Chemical Physics</i> , 2004 , 120, 8089-94	3.9	21
250	Intramolecular origin of the fast relaxations observed in the brillouin light scattering spectra of molecular glass formers. <i>Physical Review E</i> , 2000 , 62, R7595-8	2.4	21
249	Collective excitations in soft-sphere fluids. <i>Physical Review E</i> , 2014 , 90, 042301	2.4	20
248	The potential energy landscape in the Lennard-Jones binary mixture model. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S1227-S1236	1.8	20
247	Energy landscape, two-level systems, and entropy barriers in Lennard-Jones clusters. <i>Physical Review B</i> , 1999 , 60, 3200-3205	3.3	20

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