Giulio Monaco

List of Publications by Year
in descending order

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250	9,195	34076	53190
papers	citations	52 h-index	85 g-index

256	256	256	6205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Iron Partitioning in Earth's Mantle: Toward a Deep Lower Mantle Discontinuity. Science, 2003, 300, 789-791.	6.0	483
2	Electronic Transitions in Perovskite: Possible Nonconvecting Layers in the Lower Mantle. Science, 2004, 305, 383-386.	6.0	354
3	Dynamics of Glasses and Glass-Forming Liquids Studied by Inelastic X-ray Scattering. Science, 1998, 280, 1550-1555.	6.0	315
4	Is the Fragility of a Liquid Embedded in the Properties of Its Glass?. Science, 2003, 302, 849-852.	6.0	274
5	Equivalence of the Boson Peak in Glasses to the Transverse Acoustic vanÂHove Singularity in Crystals. Physical Review Letters, 2011, 106, 225501.	2.9	234
6	Atomic-Scale Relaxation Dynamics and Aging in a Metallic Glass Probed by X-Ray Photon Correlation Spectroscopy. Physical Review Letters, 2012, 109, 165701.	2.9	217
7	Evidence of High Frequency Propagating Modes in Vitreous Silica. Physical Review Letters, 1996, 77, 3835-3838.	2.9	191
8	Nature of the First-Order Phase Transition in Fluid Phosphorus at High Temperature and Pressure. Physical Review Letters, 2003, 90, 255701.	2.9	168
9	Glass-Specific Behavior in the Damping of Acousticlike Vibrations. Physical Review Letters, 2006, 96, 045502.	2.9	165
10	Viscoelastic behavior of water in the terahertz-frequency range: An inelastic x-ray scattering study. Physical Review E, 1999, 60, 5505-5521.	0.8	159
11	Breakdown of the Debye approximation for the acoustic modes with nanometric wavelengths in glasses. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3659-3663.	3.3	148
12	Sound Attenuation at Terahertz Frequencies and the Boson Peak of Vitreous Silica. Physical Review Letters, 2010, 104, 195501.	2.9	135
13	Role of Disorder in the Thermodynamics and Atomic Dynamics of Glasses. Physical Review Letters, 2014, 112, 025502.	2.9	125
14	Anomalous properties of the acoustic excitations in glasses on the mesoscopic length scale. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16907-16912.	3.3	124
15	Multiple-element spectrometer for non-resonant inelastic X-ray spectroscopy of electronic excitations. Journal of Synchrotron Radiation, 2009, 16, 469-476.	1.0	109
16	High-frequency longitudinal and transverse dynamics in water. Physical Review E, 2005, 71, 011501.	0.8	106
17	Relaxation Processes in Harmonic Glasses?. Physical Review Letters, 2000, 84, 5788-5791.	2.9	103
18	Fingerprints of order and disorder on the high-frequency dynamics of liquids. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21985-21989.	3.3	103

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19	Raman spectra of carbon-based materials excited at 1064 nm. Carbon, 1995, 33, 115-121.	5.4	99
20	Effect of Densification on the Density of Vibrational States of Glasses. Physical Review Letters, 2006, 97, 135501.	2.9	99
21	Improving the performance of high-resolution X-ray spectrometers with position-sensitive pixel detectors. Journal of Synchrotron Radiation, 2005, 12, 467-472.	1.0	91
22	Direct tomography with chemical-bond contrast. Nature Materials, 2011, 10, 489-493.	13.3	88
23	Nondynamic Origin of the High-Frequency Acoustic Attenuation in Glasses. Physical Review Letters, 1999, 83, 5583-5586.	2.9	86
24	X-Ray Raman Spectroscopic Study of Water in the Condensed Phases. Physical Review Letters, 2008, 100, 095502.	2.9	86
25	Quantifying the effective attenuation length in high-energy photoemission experiments. Physical Review B, 2005, 71, .	1.1	79
26	A large-solid-angle X-ray Raman scattering spectrometer at ID20 of the European Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2017, 24, 521-530.	1.0	76
27	Observation of the Onset of Strong Scattering on High Frequency Acoustic Phonons in Densified Silica Glass. Physical Review Letters, 2003, 90, 095502.	2.9	75
28	Coherent Peaks and Minimal Probing Depth in Photoemission Spectroscopy of Mott-Hubbard Systems. Physical Review Letters, 2006, 97, 116401.	2.9	74
29	Compressed correlation functions and fast aging dynamics in metallic glasses. Journal of Chemical Physics, 2013, 138, 054508.	1.2	73
30	Experimental setup for high energy photoemission using synchrotron radiation. Review of Scientific Instruments, 2005, 76, 023909.	0.6	72
31	Experimental Determination of the Structural Relaxation in Liquid Water. Physical Review Letters, 1999, 82, 775-778.	2.9	71
32	Evidence of anomalous dispersion of the generalized sound velocity in glasses. Physical Review B, 2004, 69, .	1.1	71
33	A Spin-Orbit Mott Insulator Beyond the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>j</mml:mi></mml:mrow><mml:mrow><mml:mtext>eff</mml:mtext></mml:mrow></mml:msub></mml:mrow></mml:math>	2.9	70
34	Nature of the Short Wavelength Excitations in Vitreous Silica: An X-Ray Brillouin Scattering Study. Physical Review Letters, 2000, 85, 2136-2139.	2.9	68
35	Role of Non-Hydrogen-Bonded Molecules in the Oxygen K-Edge Spectrum of Ice. Journal of Physical Chemistry B, 2010, 114, 3804-3808.	1.2	68
36	Inelastic x-ray scattering study of liquid Ga: Implications for the short-range order. Physical Review B, 2011, 84, .	1.1	66

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37	Raman-Scattering Measurements of the Vibrational Density of States of a Reactive Mixture During Polymerization: Effect on the Boson Peak. Physical Review Letters, 2009, 102, 027402.	2.9	64
38	Resonant X-Ray Scattering and the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>j</mml:mi></mml:mrow><mml:mrow><mml:mi>eff</mml:mi></mml:mrow></mml:msub><mml:mo mathvariant="bold">=</mml:mo><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math>Electron Ground State in Iridate Perovskites. Physical Review Letters, 2014, 112, 026403.	2.9	64
39	High Frequency Dynamics of Glass Forming Liquids at the Glass Transition. Physical Review Letters, 1998, 80, 544-547.	2.9	62
40	Resonant inelastic hard x-ray scattering with diced analyzer crystals and position-sensitive detectors. Review of Scientific Instruments, 2006, 77, 053102.	0.6	62
41	High-energy photoemission in silver: resolving d and sp contributions in valence band spectra. Journal of Physics Condensed Matter, 2005, 17, 2671-2679.	0.7	61
42	Connection between Boson Peak and Elastic Properties in Silicate Glasses. Physical Review Letters, 2009, 102, 195502.	2.9	61
43	A high-energy-resolution resonant inelastic X-ray scattering spectrometer at ID20 of the European Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2018, 25, 580-591.	1.0	61
44	Pressure Evolution of the High-Frequency Sound Velocity in Liquid Water. Physical Review Letters, 2002, 89, 125502.	2.9	60
45	Glass transition and density fluctuations in the fragile glass former orthoterphenyl. Physical Review E, 2001, 63, 061502.	0.8	59
46	Comparison of bulk-sensitive spectroscopic probes of Yb valence in Kondo systems. Physical Review B, 2007, 75, .	1.1	59
47	High-frequency propagating modes in vitreous silica at 295 K. Physical Review B, 1997, 55, 8049-8051.	1.1	58
48	Advances in crystal analyzers for inelastic X-ray scattering. Journal of Physics and Chemistry of Solids, 2005, 66, 2299-2305.	1.9	57
49	Density fluctuations in the intermediate glass-former glycerol: A Brillouin light scattering study. Journal of Chemical Physics, 2003, 119, 6032-6043.	1.2	56
50	On the Electronic Structure of Small Carbon Grains of Astrophysical Interest. Astrophysical Journal, Supplement Series, 1995, 100, 149.	3.0	55
51	Nanoscale transient gratings excited and probed by extreme ultraviolet femtosecond pulses. Science Advances, 2019, 5, eaaw5805.	4.7	54
52	The low energy excess of vibrational states in v-SiO2: the role of transverse dynamics. Journal of Physics Condensed Matter, 2004, 16, 8519-8530.	0.7	52
53	Determination of the Infinite Frequency Sound Velocity in the Glass Formero-Terphenyl. Physical Review Letters, 1998, 80, 2161-2164.	2.9	51
54	Density of Vibrational States of a Hyperquenched Glass. Physical Review Letters, 2006, 96, 205502.	2.9	51

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55	Dynamic structure factor and dielectric function of silicon for finite momentum transfer: Inelastic x-ray scattering experiments andab initiocalculations. Physical Review B, 2010, 81, .	1.1	50
56	Elastic properties of permanently densified silica: A Raman, Brillouin light, and x-ray scattering study. Physical Review B, 2010, 81, .	1.1	49
57	Temperature Dependence of the Near-Edge Spectrum of Water. Journal of Physical Chemistry B, 2011, 115, 14544-14550.	1.2	49
58	High-Frequency Acoustic Modes in Liquid Gallium at the Melting Point. Physical Review Letters, 2002, 89, 255506.	2.9	47
59	Merging of the acoustic branch with the boson peak in densified silica glass. Physical Review B, 2002, 66, .	1.1	47
60	Elastic anomalies at terahertz frequencies and excess density of vibrational states in silica glass. Physical Review B, 2011, 83, .	1.1	47
61	Emergence of Crystal-like Atomic Dynamics in Glasses at the Nanometer Scale. Physical Review Letters, 2013, 110, 185503.	2.9	47
62	Microscopic relaxation in supercritical and liquid neon. Journal of Chemical Physics, 2001, 114, 2259-2267.	1.2	46
63	Saturation Behavior in X-ray Raman Scattering Spectra of Aqueous LiCl. Journal of Physical Chemistry B, 2013, 117, 16506-16511.	1.2	46
64	Thermal deformation of cryogenically cooled silicon crystals under intense X-ray beams: measurement and finite-element predictions ofÂtheÂsurface shape. Journal of Synchrotron Radiation, 2013, 20, 567-580.	1.0	45
65	Evidence of quantum dimer excitations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.1	44
66	Fast Relaxational Dynamics in theo-Terphenyl Glass. Physical Review Letters, 1999, 82, 1776-1779.	2.9	43
67	Acoustic excitations in glassy sorbitol and their relation with the fragility and the boson peak. Journal of Chemical Physics, 2012, 137, 214502.	1.2	43
68	Crystal-field excitations in NiO studied with hard x-ray resonant inelastic x-ray scattering at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ni</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>K</mml:mi></mml:mrow></mml: Physical Review B, 2008, 78, .	1.1	42
69	Understanding the role of tunneling barriers in organic spin valves by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2010, 96, .	1.5	41
70	Signatures of Short-Range Many-Body Effects in the Dielectric Function of Silicon for Finite Momentum Transfer. Physical Review Letters, 2006, 97, 237602.	2.9	40
71	A study of core and valence levels in Î²-PbO2 by hard X-ray photoemission. Journal of Electron Spectroscopy and Related Phenomena, 2009, 169, 26-34.	0.8	40
72	Spin-orbit entangled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>j</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mr moments in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:r : A frustrated fcc quantum magnet. Physical Review B, 2019, 100, .	1.1	40

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73	Nature of electronic states at the Fermi level of metallicÎ²â^'PbO2revealed by hard x-ray photoemission spectroscopy. Physical Review B, 2007, 75, .	1.1	38
74	Dynamical response function in sodium and aluminum from time-dependent density-functional theory. Physical Review B, 2011, 84, .	1.1	37
75	Hard X-rays as pump and probe of atomic motion in oxide glasses. Scientific Reports, 2017, 7, 3962.	1.6	37
76	Orbital occupancies and the putative<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>j</mml:mi><mml:mi>eff</mml:mi></mml:ms state in Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>IrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></m. Physical Review B, 2014, 89, .	1.1	36
77	Anharmonic Damping of Terahertz Acoustic Waves in a Network Glass and Its Effect on the Density of Vibrational States. Physical Review Letters, 2014, 112, 125502.	2.9	36
78	Alternating sequence of ring and chain structures in sulphur at high pressure and temperature. Nature Materials, 2005, 4, 550-552.	13.3	35
79	Thermal conductivity and terahertz vibrational dynamics of vitreous silica. Physical Review B, 2008, 77, .	1.1	35
80	Adiabatic and isothermal sound waves: The case of supercritical nitrogen. Europhysics Letters, 2006, 75, 70-76.	0.7	34
81	Communication: High-frequency acoustic excitations and boson peak in glasses: A study of their temperature dependence. Journal of Chemical Physics, 2010, 133, 041101.	1.2	34
82	Structural Evolution and Medium Range Order in Permanently Densified Vitreous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Physical Review Letters, 2014, 112, 045501.	2.9	34
83	Progress in Liquid and Glass Physics by Brillouin Scattering Spectroscopy. Solid State Physics, 2012, , 1-77.	1.3	33
84	Polarization dependent hard X-ray photoemission experiments for solids: Efficiency and limits for unraveling the orbital character of the valence band. Journal of Electron Spectroscopy and Related Phenomena, 2015, 198, 6-11.	0.8	33
85	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
86	Crystal-Like Nature of Acoustic Excitations in Glassy Ethanol. Physical Review Letters, 2004, 93, 145502.	2.9	32
87	High-frequency dynamics of liquid and supercritical water. Physical Review E, 2007, 75, 051202.	0.8	32
88	High frequency dynamics in liquids and supercritical fluids: A comparative inelastic x-ray scattering study. Journal of Chemical Physics, 2009, 130, 064501.	1.2	31
89	Phosphorus: New in situ powder data from large-volume apparatus. Powder Diffraction, 2003, 18, 155-158.	0.4	30
90	Onset of the Î±-relaxation in the glass-forming solution LiClâ€“6H2O revealed by Brillouin scattering techniques. Journal of Chemical Physics, 2009, 131, 154507.	1.2	30

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91	Structural and Microscopic Relaxation Processes in Liquid Hydrogen Fluoride. Physical Review Letters, 2002, 88, 255503.	2.9	29
92	Structural and Collisional Relaxations in Liquids and Supercritical Fluids. Physical Review Letters, 2007, 98, 085501.	2.9	29
93	High energy-resolution set-up for Ir L3 edge RIXS experiments. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 150-154.	0.8	29
94	Resonant inelastic x-ray incarnation of Youngâ€™s double-slit experiment. Science Advances, 2019, 5, eaav4020.	4.7	29
95	High-frequency transverse dynamics in glasses. Journal of Physics Condensed Matter, 2003, 15, S1269-S1278.	0.7	28
96	Inelastic x-ray scattering from polycrystalline materials at low momentum transfer. Physical Review B, 2007, 75, .	1.1	28
97	Glassy properties and viscous slowing down: An analysis of the correlation between nonergodicity factor and fragility. Journal of Chemical Physics, 2008, 129, 194513.	1.2	28
98	Improving the energy resolution of bent crystal X-ray spectrometers with position-sensitive detectors. Journal of Synchrotron Radiation, 2014, 21, 762-767.	1.0	28
99	Lithium borate crystals and glasses: How similar are they? A non-resonant inelastic X-ray scattering study around the B and O K -edges. Journal of Non-Crystalline Solids, 2017, 472, 1-8.	1.5	28
100	Generation of coherent phonons by coherent extreme ultraviolet radiation in a transient grating experiment. Applied Physics Letters, 2018, 113, .	1.5	28
101	Dynamical response function in sodium studied by inelastic x-ray scattering spectroscopy. Physical Review B, 2011, 84, .	1.1	27
102	Correlation-Induced Double-Plasmon Excitation in Simple Metals Studied by Inelastic X-Ray Scattering. Physical Review Letters, 2005, 95, 157401.	2.9	26
103	Coexistence of different electronic phases in the K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	26
104	Laboratory experiments on cosmic dust analogues: the structure of small carbon grains. Planetary and Space Science, 1995, 43, 1217-1221.	0.9	25
105	Cauchy relation in relaxing liquids. Journal of Chemical Physics, 2008, 128, 214502.	1.2	25
106	Nonergodicity Factor, Fragility, and Elastic Properties of Polymeric Glassy Sulfur. Journal of Physical Chemistry B, 2011, 115, 14052-14063.	1.2	25
107	X-ray-Raman-scattering-based EXAFS beyond the dipole limit. Journal of Synchrotron Radiation, 2012, 19, 106-113.	1.0	25
108	Nonpareil Yb Behavior in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>YbMn</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi	1.9	25

Physical Review Letters, 2013, 111, 096402.

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109	Setup for meV-resolution inelastic X-ray scattering measurements and X-ray diffraction at the Matter in Extreme Conditions endstation at the Linac Coherent Light Source. Review of Scientific Instruments, 2018, 89, 10F104.	0.6	25
110	Universal Signature of Hydrogen Bonding in the Oxygen K-Edge Spectrum of Alcohols. Journal of Physical Chemistry B, 2010, 114, 13076-13083.	1.2	24
111	Identification of Different Electron Screening Behavior Between the Bulk and Surface of (Ga,Mn)As. Physical Review Letters, 2011, 107, 187203.	2.9	24
112	A microscopic look at the Johari-Goldstein relaxation in a hydrogen-bonded glass-former. Scientific Reports, 2019, 9, 14319.	1.6	24
113	Deep Inelastic Atomic Scattering of X Rays in Liquid Neon. Physical Review Letters, 2002, 88, 227401.	2.9	23
114	Collective dynamics in molten potassium:â€‚An inelastic x-ray scattering study. Journal of Chemical Physics, 2004, 120, 8089-8094.	1.2	23
115	Experimental evidence of mosaic structure in strongly supercooled molecular liquids. Nature Communications, 2021, 12, 1867.	5.8	23
116	Intramolecular origin of the fast relaxations observed in the Brillouin light scattering spectra of molecular glass formers. Physical Review E, 2000, 62, R7595-R7598.	0.8	22
117	Rubberlike Dynamics in Sulphur above theÎ»-Transition Temperature. Physical Review Letters, 2005, 95, 255502.	2.9	22
118	Fingerprints of Kitaev physics in the magnetic excitations of honeycomb iridates. Physical Review Research, 2020, 2, .	1.3	22
119	Benassiet al.Reply. Physical Review Letters, 1997, 78, 4670-4670.	2.9	21
120	Plasmons in Sodium under Pressure: Increasing Departure from Nearly Free-Electron Behavior. Physical Review Letters, 2011, 107, 086402.	2.9	21
121	Crystal field splitting inSrn+1IrnO3n+1(n=1,2)iridates probed by x-ray Raman spectroscopy. Physical Review B, 2014, 90, .	1.1	21
122	An approach for the measurement of the bulk temperature of single crystal diamond using an X-ray free electron laser. Scientific Reports, 2020, 10, 14564.	1.6	21
123	Microscopic pathways for stress relaxation in repulsive colloidal glasses. Science Advances, 2020, 6, eaaz2982.	4.7	21
124	Ergodic to Nonergodic Transition in Liquids with a Local Order: The Case ofm-Toluidine. Physical Review Letters, 2005, 94, 155702.	2.9	20
125	Four-wave-mixing experiments with seeded free electron lasers. Faraday Discussions, 2016, 194, 283-303.	1.6	20
126	Study on the reflectivity properties of spherically bent analyser crystals. Journal of Synchrotron Radiation, 2014, 21, 104-110.	1.0	20

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127	Determination of the Short-Wavelength Propagation Threshold in the Collective Excitations of Liquid Ammonia. Physical Review Letters, 2000, 84, 4136-4139.	2.9	19
128	Understanding the atomic dynamics and thermodynamics of glasses: Status and outlook. Journal of Non-Crystalline Solids, 2015, 407, 126-132.	1.5	19
129	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>c</mml:mi></mml:math> -Axis Dimer and Its Electronic Breakup: The Insulator-to-Metal Transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Ti</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mrow></mml:math>. Physical Review X, 2018, 8, .	2.8	19
130	Relaxation dynamics induced in glasses by absorption of hard x-ray photons. Physical Review B, 2019, 99, .	1.1	19
131	Valence band hard x-ray photoelectron spectroscopy on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math> transition-metal oxides containing rare-earth elements. Physical Review B, 2019, 99, .	1.1	19
132	Microscopic dynamics and relaxation processes in liquid hydrogen fluoride. Physical Review B, 2004, 70, .	1.1	18
133	Temperature dependence of CO2 and N2 core-electron excitation spectra at high pressure. Physical Chemistry Chemical Physics, 2013, 15, 9231.	1.3	18
134	Thermal distortion minimization by geometry optimization for water-cooled white beam mirror or multilayer optics. Journal of Physics: Conference Series, 2013, 425, 052029.	0.3	18
135	Tailoring Correlations of the Local Density of States in Disordered Photonic Materials. Physical Review Letters, 2017, 119, 043902.	2.9	18
136	Zero Sound Mode in Normal Liquid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math>. Physical Review Letters, 2007, 99, 205301.	2.9	16
137	Relaxation dynamics and aging in structural glasses. , 2013, , .		16
138	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, .	1.1	15
139	Brillouin scattering investigations of fast dynamics in glass forming systems. Journal of Non-Crystalline Solids, 2002, 307-310, 148-153.	1.5	15
140	Bulk electronic properties of the bilayered manganiteLa1.2Sr1.8Mn2O7from hard-x-ray photoemission. Physical Review B, 2007, 75, .	1.1	15
141	Generation and detection of 50 GHz surface acoustic waves by extreme ultraviolet pulses. Applied Physics Letters, 2021, 119, .	1.5	15
142	High-resolution inelastic x-ray scattering at the high energy density scientific instrument at the European X-Ray Free-Electron Laser. Review of Scientific Instruments, 2021, 92, 013101.	0.6	15
143	High resolution HAXPES and status of the VOLPE project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 547, 56-63.	0.7	14
144	Analysis of surface-bulk screening competition in the electron-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Nd</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> using x-ray photo. Physical Review B, 2008, 77, .	1.1	14

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145	Temperature dependence of iron local magnetic moment in phase-separated superconducting chalcogenide. Physical Review B, 2014, 90, .	1.1	14
146	Composition and temperature dependence of the Yb valence in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>YbMn</mml:mtext><mml:mn>2</mml:m by RIXS. Physical Review B, 2015, 92, .	1.1	14
147	Quantum effects in the dynamics of He probed by inelastic x-ray scattering. Physical Review E, 2001, 64, 021203.	0.8	13
148	Transition from the collective to the single-particle regimes in a quantum fluid. Physical Review B, 2003, 67, .	1.1	13
149	Comparison of hard and soft x-ray photoelectron spectra of silicon. Physical Review B, 2007, 76, .	1.1	13
150	Electron-density dependence of double-plasmon excitations in simple metals. Physical Review B, 2008, 77, .	1.1	13
151	Vibrational dynamics of very high density amorphous ice studied by high-resolution x-ray spectroscopy. Physical Review B, 2008, 78, .	1.1	13
152	Energy calibration of a high-resolution inelastic x-ray scattering spectrometer. Review of Scientific Instruments, 2008, 79, 083902.	0.6	13
153	Electronic structure of single crystal UPd3, UGe2, and USb2 from hard X-ray and angle-resolved photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 517-524.	0.8	13
154	Elastic Constant Inhomogeneity and the Broadening of the Dynamic Structure Factor in One-Dimensional Disordered Systems. Physical Review Letters, 1999, 83, 3450-3453.	2.9	12
155	Strong deviations from jellium behavior in the valence electron dynamics of potassium. Physical Review B, 2009, 80, .	1.1	12
156	Effect of polymerization on the boson peak, from liquid to glass. Journal of Non-Crystalline Solids, 2011, 357, 530-533.	1.5	12
157	Temperature dependence of crystal field excitations in CuO. Journal of Physics Condensed Matter, 2014, 26, 165501.	0.7	12
158	Bulk electronic properties of V2O3 probed by hard X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 64-67.	0.8	11
159	Electronic properties of FeSe1â^'xTexprobed by x-ray emission and absorption spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 415501.	0.7	11
160	Lithium Borates from the Glass to the Melt: A Temperature-Induced Structural Transformation Viewed from the Boron and Oxygen Atoms. Inorganic Chemistry, 2021, 60, 798-806.	1.9	11
161	A computationally efficient method to solve the Takagiâ€“Taupin equations for a large deformed crystal. Journal of Applied Crystallography, 2016, 49, 1284-1289.	1.9	11
162	Bulk sensitive photoemission: first results of VOLPE project at ESRF. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 963-966.	0.8	10

#	Article	IF	Citations
163	Results and perspectives in hard X-ray photoemission spectroscopy (HAXPES) from solids. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 106-111.	0.6	10
164	Bond-Induced Ergodicity Breakdown in Reactive Mixtures. Physical Review Letters, 2006, 96, 255702.	2.9	10
165	Brillouin light scattering study of glassy sorbitol. Philosophical Magazine, 2008, 88, 3939-3946.	0.7	10
166	Screening in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>Cu₃O₆ for large wave vectors. Physical Review B, 2010, 82, .	1.1	10
167	High frequency acoustic attenuation of vitreous silica: New insight from inelastic x-ray scattering. Journal of Non-Crystalline Solids, 2011, 357, 538-541.	1.5	10
168	Interplay between Temperature-Activated Vibrations and Nondipolar Effects in the Valence Excitations of the CO₂ Molecule. Journal of Physical Chemistry A, 2014, 118, 3288-3294.	1.1	10
169	Molecular dynamics simulation study of the high frequency sound waves in the fragile glass former orthoterphenyl. Journal of Chemical Physics, 2002, 116, 1077-1084.	1.2	9
170	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
171	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
172	High frequency acoustic excitations in ordered diblock copolymer studied by inelastic x-ray scattering. Journal of Chemical Physics, 2004, 121, 2376-2380.	1.2	9
173	Universal acoustic dispersion in liquid alkali metals. Physical Review B, 2009, 79, .	1.1	9
174	On the nontrivial wave-vector dependence of the elastic modulus of glasses. Physical Review B, 2016, 93, .	1.1	9
175	Two-Component Dynamics and the Liquidlike to Gaslike Crossover in Supercritical Water. Physical Review Letters, 2020, 125, 256001.	2.9	9
176	Molecular vibrational spectroscopy by inelastic x-ray scattering: Experimental determination of the absolute vibrational cross section in liquid nitrogen. Physical Review B, 2001, 64, .	1.1	8
177	High frequency acoustic modes in vitreous beryllium fluoride probed by inelastic x-ray scattering. Journal of Chemical Physics, 2003, 118, 311-316.	1.2	8
178	High-resolution Compton line shapes: Fermi break of beryllium. Physical Review B, 2007, 76, .	1.1	8
179	dâ^'dexcitations and charge ordering inLa5/3Sr1/3NiO4. Physical Review B, 2010, 81, .	1.1	8
180	Interfacial and bulk electronic properties of complex oxides and buried interfaces probed by HAXPES. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 228-234.	0.8	8

#	Article	IF	Citations
181	Study of LiCoO2 nanoparticles by hard x-ray emission and absorption spectroscopies. Applied Physics Letters, 2013, 103, .	1.5	8
182	New insights on the specific heat of glasses. Philosophical Magazine, 2016, 96, 754-760.	0.7	8
183	A new experimental scheme for nuclear Î³-resonance time-domain interferometry. Review of Scientific Instruments, 2017, 88, 105114.	0.6	8
184	Resonant inelastic X-ray scattering of magnetic excitations under pressure. Journal of Synchrotron Radiation, 2019, 26, 1725-1732.	1.0	8
185	Brillouin and Raman cross sections in silicate glasses. Physical Review B, 1995, 52, 976-981.	1.1	7
186	Brillouin light scattering of a fragile glass former: O-terphenyl. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 463-472.	0.6	7
187	Vibrational origin of the fast relaxation processes in molecular glass formers. Europhysics Letters, 2002, 60, 92-98.	0.7	7
188	RufflÃ©etÂal.Reply:. Physical Review Letters, 2007, 98, .	2.9	7
189	Brillouin light scattering study of polymeric glassy sulfur. Journal of Non-Crystalline Solids, 2011, 357, 563-566.	1.5	7
190	High-resolution nonresonant x-ray Raman scattering study on rare earth phosphate nanoparticles. New Journal of Physics, 2015, 17, 043041.	1.2	7
191	Relation between the boson peak in glasses and van Hove singularity in crystals. Philosophical Magazine, 2016, 96, 743-753.	0.7	7
192	Structure of fluid phosphorus at high temperature and pressure: An x-ray diffraction study. Physical Review B, 2004, 70, .	1.1	6
193	Phonon spectroscopy at high pressure by inelastic X-ray scattering. Journal of Synchrotron Radiation, 2009, 16, 707-713.	1.0	6
194	Communication: Are metallic glasses different from other glasses? A closer look at their high frequency dynamics. Journal of Chemical Physics, 2011, 135, 101101.	1.2	6
195	Acoustic Dissipation and Density of States in Liquid, Supercooled, and Glassy Glycerol. Physical Review Letters, 2011, 106, 155701.	2.9	6
196	Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the BaFe2As2superconductors. Physical Review B, 2012, 86, .	1.1	6
197	Determination of Phonon Dispersion Curves at Gigapascal Pressures by Inelastic X-ray Scattering. High Pressure Research, 2002, 22, 73-77.	0.4	5
198	Phonon dispersion studies of crystalline materials using high-energy resolution inelastic X-ray scattering (IXS). Physica B: Condensed Matter, 2002, 316-317, 150-153.	1.3	5

#	Article	IF	Citations
199	High-frequency transverse-like excitations in glassy glycerol. Philosophical Magazine, 2004, 84, 1453-1461.	0.7	5
200	High frequency collective dynamics in liquid potassium. Journal of Non-Crystalline Solids, 2007, 353, 3154-3159.	1.5	5
201	High-resolution inelastic x-ray scattering to study the high-frequency atomic dynamics of disordered systems. Comptes Rendus Physique, 2008, 9, 608-623.	0.3	5
202	High frequency dynamics in liquid Cs at high pressure. Journal of Chemical Physics, 2009, 131, 014501.	1.2	5
203	Science under Extreme Conditions of Pressures and Temperatures at the ESRF. Synchrotron Radiation News, 2013, 26, 39-44.	0.2	5
204	Brillouin-scattering study of the fast dynamics of m-toluidine. Philosophical Magazine, 2007, 87, 651-656.	0.7	4
205	AlbergamoetÂal.Reply:. Physical Review Letters, 2008, 100, .	2.9	4
206	High frequency dynamics of BMG determined by synchrotron radiation: A microscopic picture. Journal of Alloys and Compounds, 2010, 495, 319-322.	2.8	4
207	Acoustic properties of metallic glasses in the mesoscopic regime by inelastic X-ray scattering. Journal of Alloys and Compounds, 2011, 509, S95-S98.	2.8	4
208	Terahertz Dynamics in Human Cells and Their Chromatin. Journal of Physical Chemistry Letters, 2014, 5, 2177-2181.	2.1	4
209	X-ray induced dynamics in borate glasses with different network connectivity. Physical Review B, 2022, 105, .	1.1	4
210	Dynamic structure factor of glassy o-terphenyl: a Brillouin light scattering study. Journal of Non-Crystalline Solids, 1998, 235-237, 208-211.	1.5	3
211	High-frequency collective excitations in a molecular glass-former. Journal of Physics Condensed Matter, 2003, 15, S1259-S1267.	0.7	3
212	A Brillouin light scattering study of theâ€‰Î»â€‰transition in liquid sulphur. Philosophical Magazine, 2007, 87, 673-679.	0.7	3
213	Pressure effect on the electronic structure of La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>5</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>NiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline. Physical Review B, 2011, 84, .	1.1	3
214	Raman scattering investigation of the boson peak in a sodium silicate glass. Philosophical Magazine, 2011, 91, 1801-1808.	0.7	3
215	Study of the electronic and magnetic properties as a function of isoelectronic substitution in SmFe_{1â^’x}Ru_xAsO_{0.85}F_{0.15}. Journal of Physics Condensed Matter, 2014, 26, 065701.	0.7	3
216	The structural relaxation dynamics in the glass-former B ₂ O ₃: a multi-speckle dynamic light scattering study. Philosophical Magazine, 2016, 96, 800-808.	0.7	3

#	Article	IF	Citations
217	Damping of vibrational excitations in glasses at terahertz frequency: The case of 3-methylpentane. Journal of Chemical Physics, 2017, 147, 164501.	1.2	3
218	Accessing the non-ergodicity factor of o-terphenyl via multi-line nuclear Î³-resonance time-domain interferometry. Philosophical Magazine, 2020, 100, 2646-2657.	0.7	3
219	Probing the dynamics of B₂O₃ across the glass transition: an X-ray photon correlation spectroscopy study. Philosophical Magazine, 2020, 100, 2636-2645.	0.7	3
220	Collimator for inelastic x-ray scattering experiments at high temperature and pressure conditions. High Pressure Research, 2004, 24, 463-469.	0.4	2
221	High-frequency dynamics of liquid and supercritical nitrogen. Philosophical Magazine, 2007, 87, 665-671.	0.7	2
222	Resonant Inelastic X-ray Scattering at the ESRF: Hard and Soft X-rays. Synchrotron Radiation News, 2012, 25, 9-15.	0.2	2
223	Liquid nitrogen cooled Si crystal monochromator: X-ray focusing by controlled heat load. Journal of Physics: Conference Series, 2013, 425, 052008.	0.3	2
224	Crystal-field excitations in NiO under high pressure studied by resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2014, 26, 135501.	0.7	2
225	Resonant X-ray emission with a standing wave excitation. Scientific Reports, 2016, 6, 22648.	1.6	2
226	A $$hbox {j}_{mathrm{eff}} = 1/2$$ pseudospinon continuum in $$hbox {CaIrO}_{{3}}$$. European Physical Journal Plus, 2020, 135, 1.	1.2	2
227	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
228	Study of the longitudinal dynamics of glass-forming systems in the mesoscopic energyâ€"momentum region. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 533-545.	0.6	1
229	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.	0.6	1
230	Acoustic damping in Li2Oâ€"2B2O3 glass observed by inelastic X-ray and optical Brillouin scattering. Journal of Non-Crystalline Solids, 2006, 352, 4589-4593.	1.5	1
231	Non-ergodicity in a locally ordered fragile glass former. Journal of Non-Crystalline Solids, 2006, 352, 4531-4535.	1.5	1
232	MaticetÂal.Reply:. Physical Review Letters, 2007, 98, .	2.9	1
233	Vibrational Properties Of A Reactive Mixture Investigated During A Chemical Vitrification Process. AIP Conference Proceedings, 2010, , .	0.3	1
234	Longitudinal acoustic compliance and tagged particle susceptibility in liquid and supercooled glycerol. Journal of Non-Crystalline Solids, 2011, 357, 515-517.	1.5	1

#	Article	IF	Citations
235	Electronic structure of La5/3Sr1/3NiO4 by x-ray emission spectroscopy and resonant inelastic x-ray scattering. Journal of Applied Physics, 2012, 111, 112625.	1.1	1
236	Electronic properties of Nd 2â^'x Ce x CuO 4+Î´: A hard X-ray photoemission investigation. Journal of Electron Spectroscopy and Related Phenomena, 2016, 212, 81-85.	0.8	1
237	Study of the High Frequency Dynamics in Glass-Forming Systems. Japanese Journal of Applied Physics, 1999, 38, 126.	0.8	1
238	Experimental study of laboratory-synthesized carbonaceous grains and astrophysical implications. AIP Conference Proceedings, 1994, , .	0.3	0
239	Acoustic modes in the network glass Li2O-2B2O3: New evidence from inelastic X-ray scattering. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 243-249.	0.6	0
240	Evidence of a submegahertz acoustic dispersion in liquid and glassy o-terphenyl. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 357-364.	0.6	0
241	Study of the dynamic structure factor of hydrogen fluoride by inelastic X-ray scattering. Philosophical Magazine, 2004, 84, 1507-1512.	0.7	0
242	Study of the Rytov dip for liquido-terphenyl. Philosophical Magazine, 2004, 84, 1463-1469.	0.7	0
243	Relaxation dynamics in (HF)x(H2O)1â^'x solutions. Journal of Chemical Physics, 2005, 123, 034502.	1.2	0
244	Publisher's Note: High-resolution Compton line shapes: Fermi break of beryllium [Phys. Rev. B76, 235106 (2007)]. Physical Review B, 2007, 76, .	1.1	0
245	Contribution of the terahertz vibrations to the high-temperature thermal conductivity of vitreous silica. Philosophical Magazine, 2008, 88, 3915-3923.	0.7	0
246	Notice of Removal: Generation of acoustic waves by an extreme ultra violet free electron laser in a transient grating experiment. , 2017, , .		0
247	XV International Workshop on Complex systems Andalo (Trento) Italy. 17â€"20 March 2019. Philosophical Magazine, 2020, 100, 2543-2543.	0.7	0
248	Structure and vibrations in disordered systems. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C128-C128.	0.3	0
249	The High-Frequency Atomic Dynamics of Disordered Systems Studied by High-Resolution Inelastic X-Ray Scattering. , 2015, , 461-482.		0
250	Universal Two-Component Dynamics in Supercritical Fluids. Journal of Physical Chemistry B, 2021, , .	1.2	0