

Claudio Masciovecchio

List of Publications by Year in descending order

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194
papers

5,981
citations

66315

42
h-index

88593

70
g-index

200
all docs

200
docs citations

200
times ranked

4449
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Glasses and Glass-Forming Liquids Studied by Inelastic X-ray Scattering. <i>Science</i> , 1998, 280, 1550-1555.	6.0	315
2	Collective Dynamics in Water by High Energy Resolution Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 1995, 75, 850-853.	2.9	241
3	Roadmap of ultrafast x-ray atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 032003.	0.6	240
4	Evidence of High Frequency Propagating Modes in Vitreous Silica. <i>Physical Review Letters</i> , 1996, 77, 3835-3838.	2.9	191
5	Four-wave mixing experiments with extreme ultraviolet transient gratings. <i>Nature</i> , 2015, 520, 205-208.	13.7	184
6	Short-wavelength free-electron laser sources and science: a review. <i>Reports on Progress in Physics</i> , 2017, 80, 115901.	8.1	183
7	Transition from Normal to Fast Sound in Liquid Water. <i>Physical Review Letters</i> , 1996, 77, 83-86.	2.9	175
8	Two-colour pump-probe experiments with a twin-pulse-seed extreme ultraviolet free-electron laser. <i>Nature Communications</i> , 2013, 4, 2476.	5.8	156
9	The FERMI@Elettra free-electron-laser source for coherent x-ray physics: photon properties, beam transport system and applications. <i>New Journal of Physics</i> , 2010, 12, 075002.	1.2	155
10	A perfect crystal X-ray analyser with meV energy resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 111, 181-186.	0.6	141
11	X-ray Monochromator with 2 Å – 108 Energy Resolution. <i>Journal of Synchrotron Radiation</i> , 1996, 3, 62-64.	1.0	126
12	Observation of Large Momentum Phononlike Modes in Glasses. <i>Physical Review Letters</i> , 1996, 76, 3356-3359.	2.9	102
13	Evidence for a Crossover in the Frequency Dependence of the Acoustic Attenuation in Vitreous Silica. <i>Physical Review Letters</i> , 2006, 97, 035501.	2.9	100
14	Coherent soft X-ray pulses from an echo-enabled harmonic generation free-electron laser. <i>Nature Photonics</i> , 2019, 13, 555-561.	15.6	92
15	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.	0.6	86
16	Nondynamic Origin of the High-Frequency Acoustic Attenuation in Glasses. <i>Physical Review Letters</i> , 1999, 83, 5583-5586.	2.9	86
17	BaD ELPh: A 4m normal-incidence monochromator beamline at Elettra. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 780-784.	0.7	85
18	Towards jitter-free pump-probe measurements at seeded free electron laser facilities. <i>Optics Express</i> , 2014, 22, 12869.	1.7	83

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19	Tunability experiments at the FERMI@Elettra free-electron laser. <i>New Journal of Physics</i> , 2012, 14, 113009.	1.2	81
20	Magnetic and structural phase transition in Fe monitored by x-ray emission spectroscopy. <i>Physical Review B</i> , 1999, 60, 14510-14512.	1.1	79
21	Crystal-like High Frequency Phonons in the Amorphous Phases of Solid Water. <i>Physical Review Letters</i> , 2000, 85, 4100-4103.	2.9	74
22	Experimental Determination of the Structural Relaxation in Liquid Water. <i>Physical Review Letters</i> , 1999, 82, 775-778.	2.9	71
23	Nature of the Short Wavelength Excitations in Vitreous Silica: An X-Ray Brillouin Scattering Study. <i>Physical Review Letters</i> , 2000, 85, 2136-2139.	2.9	68
24	Momentum Transfer Dependence of Inelastic X-Ray Scattering from the LiKEdge. <i>Physical Review Letters</i> , 1997, 78, 2843-2846.	2.9	65
25	UV resonant Raman scattering facility at Elettra. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 703, 33-37.	0.7	64
26	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. <i>Physical Review Letters</i> , 2018, 120, 023901.	2.9	64
27	High Frequency Dynamics of Glass Forming Liquids at the Glass Transition. <i>Physical Review Letters</i> , 1998, 80, 544-547.	2.9	62
28	Is There Any Fast Sound in Water?. <i>Physical Review Letters</i> , 2006, 97, 225701.	2.9	59
29	High-frequency propagating modes in vitreous silica at 295 K. <i>Physical Review B</i> , 1997, 55, 8049-8051.	1.1	58
30	TiO ₂ @SiO ₂ @PDMS nanocomposite coating with self-cleaning effect for stone material: Finding the optimal amount of TiO ₂ . <i>Construction and Building Materials</i> , 2018, 166, 464-471.	3.2	54
31	Nanoscale transient gratings excited and probed by extreme ultraviolet femtosecond pulses. <i>Science Advances</i> , 2019, 5, eaaw5805.	4.7	54
32	Determination of the Infinite Frequency Sound Velocity in the Glass Formero-Terphenyl. <i>Physical Review Letters</i> , 1998, 80, 2161-2164.	2.9	51
33	Sound Wave Scattering in Network Glasses. <i>Physical Review Letters</i> , 2001, 86, 3803-3806.	2.9	51
34	Phonon dispersion curves in an argon single crystal at high pressure by inelastic x-ray scattering. <i>Physical Review B</i> , 2001, 63, .	1.1	50
35	Structural Relaxation in Liquid Water by Inelastic UV Scattering. <i>Physical Review Letters</i> , 2004, 92, 255507.	2.9	50
36	Observation of magnetic circular dichroism in resonant inelastic x-ray scattering at the L ₃ edge of gadolinium metal. <i>Physical Review B</i> , 1996, 54, R12673-R12676.	1.1	49

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37	High-frequency dynamics of glass-forming polybutadiene. <i>Physical Review E</i> , 1999, 59, 4470-4475.	0.8	49
38	Elastic properties of permanently densified silica: A Raman, Brillouin light, and x-ray scattering study. <i>Physical Review B</i> , 2010, 81, .	1.1	49
39	Contrasting behaviour of acoustic modes in network and non-network glasses. <i>Europhysics Letters</i> , 2001, 54, 77-83.	0.7	47
40	Microscopic relaxation in supercritical and liquid neon. <i>Journal of Chemical Physics</i> , 2001, 114, 2259-2267.	1.2	46
41	Tuning structural parameters for the optimization of drug delivery performance of cyclodextrin-based nanosponges. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 331-340.	2.4	46
42	Fast Relaxational Dynamics in theo-Terphenyl Glass. <i>Physical Review Letters</i> , 1999, 82, 1776-1779.	2.9	43
43	FEL-based transient grating spectroscopy to investigate nanoscale dynamics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 785-789.	0.7	41
44	Oxidative damage in DNA bases revealed by UV resonant Raman spectroscopy. <i>Analyst, The</i> , 2015, 140, 1477-1485.	1.7	41
45	First Evidence of Purely Extreme-Ultraviolet Four-Wave Mixing. <i>Physical Review Letters</i> , 2018, 120, 263901.	2.9	37
46	Progress in Liquid and Glass Physics by Brillouin Scattering Spectroscopy. <i>Solid State Physics</i> , 2012, , 1-77.	1.3	33
47	Nanoscale dynamics by short-wavelength four wave mixing experiments. <i>New Journal of Physics</i> , 2013, 15, 123023.	1.2	33
48	EIS: the scattering beamline at FERMI. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 553-564.	1.0	33
49	Collective dynamics in water by inelastic x-rays scattering. <i>Physica Scripta</i> , 1996, T66, 48-56.	1.2	33
50	Acoustic nature of the boson peak in vitreous silica. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 2013-2020.	0.6	32
51	Crystal-Like Nature of Acoustic Excitations in Glassy Ethanol. <i>Physical Review Letters</i> , 2004, 93, 145502.	2.9	32
52	Phonon-like and single-particle dynamics in liquid lithium. <i>Europhysics Letters</i> , 2000, 50, 189-195.	0.7	31
53	Structure of human telomere G-quadruplex in the presence of a model drug along the thermal unfolding pathway. <i>Nucleic Acids Research</i> , 2018, 46, 11927-11938.	6.5	31
54	Hard X-ray transient grating spectroscopy on bismuth germanate. <i>Nature Photonics</i> , 2021, 15, 499-503.	15.6	31

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55	Onset of the β -relaxation in the glass-forming solution $\text{LiCl}\cdot 6\text{H}_2\text{O}$ revealed by Brillouin scattering techniques. <i>Journal of Chemical Physics</i> , 2009, 131, 154507.	1.2	30
56	The mixed longitudinal-transverse nature of collective modes in water. <i>New Journal of Physics</i> , 2010, 12, 053008.	1.2	30
57	Multi-colour pulses from seeded free-electron-lasers: towards the development of non-linear core-level coherent spectroscopies. <i>Faraday Discussions</i> , 2014, 171, 487-503.	1.6	29
58	Multipurpose end-station for coherent diffraction imaging and scattering at FERMI@Elettra free-electron laser facility. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 544-552.	1.0	29
59	Temperature and density dependence of the structural relaxation time in water by inelastic ultraviolet scattering. <i>Journal of Chemical Physics</i> , 2009, 131, 144502.	1.2	28
60	Hydrophobic hydration of tert-butyl alcohol studied by Brillouin light and inelastic ultraviolet scattering. <i>Journal of Chemical Physics</i> , 2011, 134, 055104.	1.2	28
61	Generation of coherent phonons by coherent extreme ultraviolet radiation in a transient grating experiment. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	28
62	Pressure-Induced In-Glass Structural Transformation in the Amorphous Polymer Poly(methylmethacrylate). <i>Physical Review Letters</i> , 1998, 80, 4205-4208.	2.9	27
63	Water and polymer dynamics in a model polysaccharide hydrogel: the role of hydrophobic/hydrophilic balance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 963-971.	1.3	27
64	Experimental Evidence of the Acousticlike Character of the High Frequency Excitations in Glasses. <i>Physical Review Letters</i> , 2000, 85, 1266-1269.	2.9	26
65	Acoustic-phonon dispersion in CdTe at 7.5 GPa. <i>Physical Review B</i> , 1997, 56, 8691-8694.	1.1	25
66	Inelastic Ultraviolet Scattering from High Frequency Acoustic Modes in Glasses. <i>Physical Review Letters</i> , 2004, 92, 247401.	2.9	25
67	Stacking of purines in water: the role of dipolar interactions in caffeine. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13478-13486.	1.3	25
68	Line broadening in the collective dynamics of liquid and solid water. <i>Physical Review B</i> , 1996, 54, 14892-14895.	1.1	24
69	Dynamics of Dense Supercritical Neon at the Transition from Hydrodynamical to Single-Particle Regimes. <i>Physical Review Letters</i> , 1998, 80, 3515-3518.	2.9	24
70	Brillouin and Umklapp scattering in polybutadiene: Comparison of neutron and x-ray scattering. <i>Physical Review E</i> , 1999, 60, R2464-R2467.	0.8	23
71	High resolution beam profiling of X-ray free electron laser radiation by polymer imprint development. <i>Optics Express</i> , 2017, 25, 30686.	1.7	23
72	Benassiet al.Reply. <i>Physical Review Letters</i> , 1997, 78, 4670-4670.	2.9	21

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73	Investigation of Acetic Acid Hydration Shell Formation through Raman Spectra Line-Shape Analysis. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13219-13227.	1.2	21
74	Four-wave-mixing experiments with seeded free electron lasers. <i>Faraday Discussions</i> , 2016, 194, 283-303.	1.6	20
75	Superconductivity and Density Waves in High Dimensions. <i>Europhysics Letters</i> , 1993, 24, 575-580.	0.7	19
76	Determination of the Short-Wavelength Propagation Threshold in the Collective Excitations of Liquid Ammonia. <i>Physical Review Letters</i> , 2000, 84, 4136-4139.	2.9	19
77	Temperature Dependence of Hydrogen-Bond Dynamics in Acetic Acid ⁺ Water Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10628-10633.	1.2	19
78	Role of multilayer-like interference effects on the transient optical response of Si ₃ N ₄ films pumped with free-electron laser pulses. <i>Applied Physics Letters</i> , 2014, 104, 191104.	1.5	19
79	Spectroscopic investigation of Roman decorated plasters by combining FT-IR, micro-Raman and UV-Raman analyses. <i>Vibrational Spectroscopy</i> , 2016, 83, 78-84.	1.2	19
80	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. <i>Soft Matter</i> , 2015, 11, 5862-5871.	1.2	18
81	Advances in instrumentation for FEL-based four-wave-mixing experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 907, 132-148.	0.7	18
82	Polymorphism of human telomeric quadruplexes with drugs: a multi-technique biophysical study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11583-11592.	1.3	18
83	Combining Raman and infrared spectroscopy as a powerful tool for the structural elucidation of cyclodextrin-based polymeric hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10274-10282.	1.3	16
84	Ultrafast Dynamics of Plasmon-Mediated Charge Transfer in Ag@CeO ₂ Studied by Free Electron Laser Time-Resolved X-ray Absorption Spectroscopy. <i>Nano Letters</i> , 2021, 21, 1729-1734.	4.5	16
85	Nanoscale Transient Magnetization Gratings Created and Probed by Femtosecond Extreme Ultraviolet Pulses. <i>Nano Letters</i> , 2021, 21, 2905-2911.	4.5	16
86	Cusp-like temperature behavior of the nonergodicity factor in polybutadiene revealed by a joint light and x-ray Brillouin scattering investigation. <i>Physical Review B</i> , 2002, 65, .	1.1	15
87	Concentration ⁺ Temperature Dependencies of Structural Relaxation Time in Trehalose ⁺ Water Solutions by Brillouin Inelastic UV Scattering. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12577-12583.	1.1	15
88	Technical advances of the TIMER project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 635, S69-S74.	0.7	15
89	Coherent and transient states studied with extreme ultraviolet and X-ray free electron lasers: present and future prospects. <i>Advances in Physics</i> , 2014, 63, 327-404.	35.9	15
90	Nonlinear XUV-optical transient grating spectroscopy at the Si L _{2,3} edge. <i>Applied Physics Letters</i> , 2019, 114, 181101.	1.5	15

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91	Generation and detection of 50 GHz surface acoustic waves by extreme ultraviolet pulses. Applied Physics Letters, 2021, 119, .	1.5	15
92	X-ray diffraction and Raman scattering measurements on silica xerogels. Journal of Non-Crystalline Solids, 2002, 307-310, 135-141.	1.5	14
93	Probing matter under extreme conditions at Fermi@Elettra: the TIMEX beamline. Proceedings of SPIE, 2011, , .	0.8	14
94	Probing phase transitions under extreme conditions by ultrafast techniques: Advances at the Fermi@Elettra free-electron-laser facility. Journal of Non-Crystalline Solids, 2011, 357, 2641-2647.	1.5	14
95	FERMI: Present and Future Challenges. Applied Sciences (Switzerland), 2017, 7, 640.	1.3	14
96	Aqueous solvation of glutathione probed by UV resonance Raman spectroscopy. Journal of Molecular Liquids, 2019, 283, 537-547.	2.3	14
97	Calorimetry at Surfaces Using High-Resolution Core-Level Photoemission. Physical Review Letters, 2004, 93, 106105.	2.9	13
98	Probing the molecular connectivity of water confined in polymer hydrogels. Journal of Chemical Physics, 2015, 142, 014901.	1.2	13
99	Free electron laser-driven ultrafast rearrangement of the electronic structure in Ti. Structural Dynamics, 2016, 3, 023604.	0.9	13
100	Long-lived nonthermal electron distribution in aluminum excited by femtosecond extreme ultraviolet radiation. Physical Review B, 2017, 96, .	1.1	13
101	Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 22555-22563.	1.3	13
102	Hydration properties and water structure in aqueous solutions of native and modified cyclodextrins by $UV\ Raman$ and $B\ rillouin$ scattering. Journal of Raman Spectroscopy, 2018, 49, 1076-1085.	1.2	13
103	All-reflective femtosecond optical pump-probe setup for transient grating spectroscopy. Optics Letters, 2011, 36, 1032.	1.7	12
104	Characterization of ultrafast free-electron laser pulses using extreme-ultraviolet transient gratings. Journal of Synchrotron Radiation, 2018, 25, 32-38.	1.0	12
105	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. Condensed Matter, 2019, 4, 30.	0.8	12
106	An active optics system for EUV/soft x-ray beam shaping. Proceedings of SPIE, 2012, , .	0.8	11
107	Thermodynamic hydration shell behavior of glycine. Journal of Chemical Physics, 2013, 139, 015101.	1.2	11
108	Guest-matrix interactions affect the solvation of cyclodextrin-based polymeric hydrogels: a UV Raman scattering study. Soft Matter, 2016, 12, 8861-8868.	1.2	11

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109	Synchrotron-based ultraviolet resonance Raman scattering for material science. , 2020, , 447-482.		11
110	Interplay of electron heating and saturable absorption in ultrafast extreme ultraviolet transmission of condensed matter. Physical Review B, 2014, 90, .	1.1	10
111	Vibrational signatures of the water behaviour upon confinement in nanoporous hydrogels. Physical Chemistry Chemical Physics, 2016, 18, 12252-12259.	1.3	10
112	Ultrafast reflectivity dynamics of highly excited Si surfaces below the melting transition. Physical Review B, 2016, 94, .	1.1	10
113	Thermoelasticity of Nanoscale Silicon Carbide Membranes Excited by Extreme Ultraviolet Transient Gratings: Implications for Mechanical and Thermal Management. ACS Applied Nano Materials, 2019, 2, 5132-5139.	2.4	10
114	Atomic and Electronic Structure of Solid-Density Liquid Carbon. Physical Review Letters, 2020, 125, 155703.	2.9	10
115	Investigation of genomic <scp>DNA</scp> methylation by ultraviolet resonant Raman spectroscopy. Journal of Biophotonics, 2020, 13, e202000150.	1.1	10
116	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
117	TRACKING THERMALLY DRIVEN MOLECULAR REACTION AND FRAGMENTATION BY FAST PHOTOEMISSION: C60on Si(111). Surface Review and Letters, 2002, 09, 775-781.	0.5	9
118	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
119	A beam-shaping system for TIMEX beamline. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, S12-S15.	0.7	9
120	IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 138-146.	0.7	9
121	Slow-to-fast transition of hydrogen bond dynamics in acetamide hydration shell formation. Physical Chemistry Chemical Physics, 2015, 17, 10987-10992.	1.3	9
122	Experimental setups for FEL-based four-wave mixing experiments at FERMI. Journal of Synchrotron Radiation, 2016, 23, 132-140.	1.0	9
123	Two-photon absorption of soft X-ray free electron laser radiation by graphite near the carbon K-absorption edge. Chemical Physics Letters, 2018, 703, 112-116.	1.2	9
124	All-Optical Switching on the Nanometer Scale Excited and Probed with Femtosecond Extreme Ultraviolet Pulses. Nano Letters, 2022, 22, 4452-4458.	4.5	9
125	A high resolution ultraviolet Brillouin scattering set-up. Review of Scientific Instruments, 2012, 83, 103102.	0.6	8
126	Water Dynamics and Structural Relaxation in Concentrated Sugar Solutions. Food Biophysics, 2013, 8, 183-191.	1.4	8

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127	Determination of dynamical parameters in liquids by homodyne transient grating spectroscopy at large angles. <i>Optics Letters</i> , 2014, 39, 5110.	1.7	8
128	Broadband multilayer optics for ultrafast EUV absorption spectroscopy with free electron laser radiation. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025505.	1.0	8
129	Base-specific pre-melting and melting transitions of DNA in presence of ionic liquids probed by synchrotron-based UV resonance Raman scattering. <i>Journal of Molecular Liquids</i> , 2021, 330, 115433.	2.3	8
130	Inelastic Ultra-Violet Scattering as a Tool to Investigate Collective Excitations in Condensed Matter Physics. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	7
131	Density fluctuations of water-glucose mixtures studied by inelastic ultra-violet scattering. <i>Philosophical Magazine</i> , 2008, 88, 3991-3998.	0.7	7
132	A method for estimating the temperature in high energy density free electron laser experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 621, 643-649.	0.7	7
133	Reflectivity enhancement in titanium by ultrafast XLUV irradiation. <i>Scientific Reports</i> , 2014, 4, 4952.	1.6	7
134	The quality is in the eye of the beholder: The perspective of FTIR and UV resonant Raman spectroscopies on extracted nucleic acids. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1056-1065.	1.2	7
135	Extreme ultraviolet probing of nonequilibrium dynamics in high energy density germanium. <i>Physical Review B</i> , 2018, 97, .	1.1	7
136	Ultraviolet Brillouin scattering as a new tool to investigate disordered systems. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 5126-5129.	1.5	6
137	Acoustic Dissipation and Density of States in Liquid, Supercooled, and Glassy Glycerol. <i>Physical Review Letters</i> , 2011, 106, 155701.	2.9	6
138	Spatial correlation between chemical and topological defects in vitreous silica: UV-resonance Raman study. <i>Journal of Chemical Physics</i> , 2014, 140, 244505.	1.2	6
139	Role of the ionization potential in nonequilibrium metals driven to absorption saturation. <i>Physical Review E</i> , 2015, 92, 011101.	0.8	6
140	Solute-Solvent Interactions in Aqueous Solutions of Sulfobutyl Ether- β -cyclodextrin As Probed by UV-Raman and FTIR-ATR Analysis. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3746-3753.	1.2	6
141	Transient EUV Reflectivity Measurements of Carbon upon Ultrafast Laser Heating. <i>Photonics</i> , 2017, 4, 23.	0.9	6
142	Impulsive UV-pump/X-ray probe study of vibrational dynamics in glycine. <i>Scientific Reports</i> , 2018, 8, 15466.	1.6	6
143	Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques. <i>Journal of Molecular Liquids</i> , 2018, 271, 738-746.	2.3	6
144	Two-bunch operation with ns temporal separation at the FERMI FEL facility. <i>New Journal of Physics</i> , 2018, 20, 053047.	1.2	6

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145	Optical constants modelling in silicon nitride membrane transiently excited by EUV radiation. <i>Optics Express</i> , 2018, 26, 11877.	1.7	6
146	Insight into the thermal stability of DNA in hydrated ionic liquids from multi-wavelength UV resonance Raman experiments. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15980-15988.	1.3	6
147	Non-linear self-driven spectral tuning of Extreme Ultraviolet Femtosecond Pulses in monoatomic materials. <i>Light: Science and Applications</i> , 2021, 10, 92.	7.7	6
148	Generation of coherent magnons in NiO stimulated by EUV pulses from a seeded free-electron laser. <i>Physical Review Materials</i> , 2017, 1, .	0.9	6
149	Is there any evidence of a positive sound dispersion in the high frequency dynamics of noble gases?. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 477-483.	1.9	5
150	Determination of the Ion Temperature in a Stainless Steel Slab Exposed to Intense Ultrashort Laser Pulses. <i>Physical Review Letters</i> , 2012, 109, 025005.	2.9	5
151	Practical way to avoid spurious geometrical contributions in Brillouin light scattering experiments at variable scattering angles. <i>Optics Letters</i> , 2014, 39, 5858.	1.7	5
152	Nonlinear optics with coherent free electron lasers. <i>Physica Scripta</i> , 2016, T169, 014003.	1.2	5
153	Timing methodologies and studies at the FERMI free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 44-51.	1.0	5
154	UV Resonance Raman explores protein structural modification upon fibrillation and ligand interaction. <i>Biophysical Journal</i> , 2021, 120, 4575-4589.	0.2	5
155	Nanoscale Thermoelasticity in Silicon Nitride Membranes: Implications for Thermal Management. <i>ACS Applied Nano Materials</i> , 2021, 4, 10519-10527.	2.4	5
156	Study of longitudinal dynamics of trehaloseâ€™ water solutions by inelastic ultraviolet scattering. <i>Philosophical Magazine</i> , 2007, 87, 623-630.	0.7	4
157	The FERMI seeded-FEL facility: Status and perspectives. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
158	Myelography Iodinated Contrast Media. 2. Conformational Versatility of Iopamidol in the Solid State. <i>Molecular Pharmaceutics</i> , 2017, 14, 468-477.	2.3	4
159	Ultrafast Plasmon Dynamics in Crystalline LiF Triggered by Intense Extreme UV Pulses. <i>Physical Review Letters</i> , 2020, 124, 184801.	2.9	4
160	Four-wave-mixing experiments and beyond: the TIMER/mini-TIMER setups at FERMI. , 2017, , .		4
161	Sette et al.Reply:. <i>Physical Review Letters</i> , 1996, 76, 3657-3657.	2.9	3
162	Sette et al.Reply:. <i>Physical Review Letters</i> , 1997, 78, 976-976.	2.9	3

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163	Brillouin ultraviolet light scattering on vitreous silica. Journal of Non-Crystalline Solids, 2005, 351, 1919-1923.	1.5	3
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