Gianluca Gregori

List of Publications by Year in descending order

170	5,671	57758	95266
papers	citations	44 h-index	68 g-index

172	172	172	3273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of magnetic field generation via the Weibel instability in interpenetrating plasma flows. Nature Physics, 2015, 11, 173-176.	16.7	236
2	Demonstration of Spectrally Resolved X-Ray Scattering in Dense Plasmas. Physical Review Letters, 2003, 90, 175002.	7.8	227
3	Ultrabright X-ray laser scattering for dynamic warm dense matter physics. Nature Photonics, 2015, 9, 274-279.	31.4	208
4	Theoretical model of x-ray scattering as a dense matter probe. Physical Review E, 2003, 67, 026412.	2.1	168
5	Nanosecond formation of diamond and lonsdaleite by shock compression of graphite. Nature Communications, 2016, 7, 10970.	12.8	167
6	Probing warm dense lithium by inelastic X-ray scattering. Nature Physics, 2008, 4, 940-944.	16.7	148
7	Self-organized electromagnetic field structures in laser-produced counter-streaming plasmas. Nature Physics, 2012, 8, 809-812.	16.7	118
8	Generation of scaled protogalactic seed magnetic fields in laser-produced shock waves. Nature, 2012, 481, 480-483.	27.8	113
9	Observations of Continuum Depression in Warm Dense Matter with X-Ray Thomson Scattering. Physical Review Letters, 2014, 112, 145004.	7.8	105
10	Laboratory evidence of dynamo amplification of magnetic fields in a turbulent plasma. Nature Communications, 2018, 9, 591.	12.8	105
11	Observation of Ultrafast Nonequilibrium Collective Dynamics in Warm Dense Hydrogen. Physical Review Letters, 2010, 104, 125002.	7.8	101
12	Characterizing counter-streaming interpenetrating plasmas relevant to astrophysical collisionless shocks. Physics of Plasmas, 2012, 19, .	1.9	101
13	Resolving Ultrafast Heating of Dense Cryogenic Hydrogen. Physical Review Letters, 2014, 112, 105002.	7.8	95
14	Ultrafast Melting of Carbon Induced by Intense Proton Beams. Physical Review Letters, 2010, 105, 265701.	7.8	93
15	X-ray line measurements with high efficiency Bragg crystals. Review of Scientific Instruments, 2004, 75, 3747-3749.	1.3	86
16	Guiding of relativistic electron beams in dense matter by laser-driven magnetostatic fields. Nature Communications, 2018, 9, 102.	12.8	86
17	Turbulent amplification of magnetic fields in laboratory laser-produced shock waves. Nature Physics, 2014, 10, 520-524.	16.7	84
18	Studying astrophysical collisionless shocks with counterstreaming plasmas from high power lasers. High Energy Density Physics, 2012, 8, 38-45.	1.5	82

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19	Laser Heating of Solid Matter by Light-Pressure-Driven Shocks at Ultrarelativistic Intensities. Physical Review Letters, 2008, 100, 165002.	7.8	75
20	Orbital-Free Density-Functional Theory Simulations of the Dynamic Structure Factor of Warm Dense Aluminum. Physical Review Letters, 2013, 111, 175002.	7.8	74
21	Electronic structure measurements of dense plasmas. Physics of Plasmas, 2004, 11, 2754-2762.	1.9	72
22	X-ray scattering from solid density plasmas. Physics of Plasmas, 2003, 10, 2433-2441.	1.9	69
23	Effect of Nonlocal Transport on Heat-Wave Propagation. Physical Review Letters, 2004, 92, 205006.	7.8	68
24	Application of imaging plates to x-ray imaging and spectroscopy in laser plasma experiments (invited). Review of Scientific Instruments, 2006, 77, 10E325.	1.3	65
25	Integrated laserâ€“target interaction experiments on the RAL petawatt laser. Plasma Physics and Controlled Fusion, 2005, 47, B833-B840.	2.1	64
26	Derivation of the static structure factor in strongly coupled non-equilibrium plasmas for X-ray scattering studies. High Energy Density Physics, 2007, 3, 99-108.	1.5	62
27	Electronic Structure of an XUV Photogenerated Solid-Density Aluminum Plasma. Physical Review Letters, 2010, 104, 225001.	7.8	62
28	Thomson scattering from near-solid density plasmas using soft X-ray free electron lasers. High Energy Density Physics, 2007, 3, 120-130.	1.5	61
29	Electron acceleration in laboratory-produced turbulent collisionless shocks. Nature Physics, 2020, 16, 916-920.	16.7	60
30	Threeâ€dimensional Magnetohydrodynamic Numerical Simulations of Cloudâ€Wind Interactions. Astrophysical Journal, 2000, 543, 775-786.	4.5	59
31	Measurement of carbon ionization balance in high-temperature plasma mixtures by temporally resolved X-ray scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 225-237.	2.3	56
32	FLASH MHD simulations of experiments that study shock-generated magnetic fields. High Energy Density Physics, 2015, 17, 24-31.	1.5	54
33	Developed turbulence and nonlinear amplification of magnetic fields in laboratory and astrophysical plasmas. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8211-8215.	7.1	52
34	Measurements of Ionic Structure in Shock Compressed Lithium Hydride from Ultrafast X-Ray Thomson Scattering. Physical Review Letters, 2009, 103, 245004.	7.8	51
35	Direct Observation of Strong Ion Coupling in Laser-Driven Shock-Compressed Targets. Physical Review Letters, 2007, 99, 135006.	7.8	50
36	Low frequency structural dynamics of warm dense matter. Physics of Plasmas, 2009, 16, 056306.	1.9	50

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37	Probing the Complex Ion Structure in Liquid Carbon at 100ÂGPa. Physical Review Letters, 2013, 111, 255501.	7.8	49
38	Transition from Collisional to Collisionless Regimes in Interpenetrating Plasma Flows on the National Ignition Facility. Physical Review Letters, 2017, 118, 185003.	7.8	49
39	Enhanced Cloud Disruption by Magnetic Field Interaction. Astrophysical Journal, 1999, 527, L113-L116.	4.5	49
40	X-ray probe development for collective scattering measurements in dense plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 636-648.	2.3	48
41	Measurement of Short-Range Correlations in Shock-Compressed Plastic by Short-Pulse X-Ray Scattering. Physical Review Letters, 2009, 102, 165004.	7.8	47
42	Proton imaging of stochastic magnetic fields. Journal of Plasma Physics, 2017, 83, .	2.1	47
43	Scaled laboratory experiments explain the kink behaviour of the Crab Nebula jet. Nature Communications, 2016, 7, 13081.	12.8	46
44	Building high accuracy emulators for scientific simulations with deep neural architecture search. Machine Learning: Science and Technology, 2022, 3, 015013.	5.0	46
45	Electron-Ion Equilibration in Ultrafast Heated Graphite. Physical Review Letters, 2014, 112, 145005.	7.8	44
46	Inelastic X-Ray Scattering from Shocked Liquid Deuterium. Physical Review Letters, 2012, 109, 265003.	7.8	43
47	Creation of hot dense matter in short-pulse laser-plasma interaction with tamped titanium foils. Physics of Plasmas, 2007, 14, 102701.	1.9	42
48	Extent of validity of the hydrodynamic description of ions in dense plasmas. Physical Review E, 2011, 83, 015401.	2.1	42
49	The generation and amplification of intergalactic magnetic fields in analogue laboratory experiments with high power lasers. Physics Reports, 2015, 601, 1-34.	25.6	39
50	Implementation of a high energy 4Ï‰ probe beam on the Omega laser. Review of Scientific Instruments, 2004, 75, 3906-3908.	1.3	38
51	DESIGN CONSIDERATIONS FOR UNMAGNETIZED COLLISIONLESS-SHOCK MEASUREMENTS IN HOMOLOGOUS FLOWS. Astrophysical Journal, 2012, 749, 171.	4.5	38
52	Diagnosing direct-drive, shock-heated, and compressed plastic planar foils with noncollective spectrally resolved x-ray scattering. Physics of Plasmas, 2007, 14, 122703.	1.9	37
53	Towards laboratory produced relativistic electronâ€“positron pair plasmas. High Energy Density Physics, 2011, 7, 225-229.	1.5	36
54	XUV spectroscopic characterization of warm dense aluminum plasmas generated by the free-electron-laser FLASH. Laser and Particle Beams, 2012, 30, 45-56.	1.0	36

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55	Visualizing electromagnetic fields in laser-produced counter-streaming plasma experiments for collisionless shock laboratory astrophysics. Physics of Plasmas, 2013, 20, .	1.9	36
56	Electron-density scaling of conversion efficiency of laser energy into L-shell X-rays. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 186-198.	2.3	35
57	X-ray scattering as a probe for warm dense mixtures and high-pressure miscibility. Europhysics Letters, 2011, 94, 25001.	2.0	35
58	Measurement of Radiative Shock Properties by X-Ray Thomson Scattering. Physical Review Letters, 2012, 108, 145001.	7.8	34
59	SCALING OF MAGNETO-QUANTUM-RADIATIVE HYDRODYNAMIC EQUATIONS: FROM LASER-PRODUCED PLASMAS TO ASTROPHYSICS. Astrophysical Journal, 2014, 795, 59.	4.5	34
60	FLASH magnetohydrodynamic simulations of shock-generated magnetic field experiments. High Energy Density Physics, 2012, 8, 322-328.	1.5	33
61	Electron-phonon equilibration in laser-heated gold films. Physical Review B, 2014, 90, .	3.2	33
62	Dynamic X-ray diffraction observation of shocked solid iron up to 170 GPa. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7745-7749.	7.1	33
63	Freeâ€“free opacity in warm dense aluminum. High Energy Density Physics, 2009, 5, 124-131.	1.5	32
64	Thomson scattering measurements in atmospheric plasma jets. Physical Review E, 1999, 59, 2286-2291.	2.1	31
65	Numerical modeling of laser-driven experiments aiming to demonstrate magnetic field amplification via turbulent dynamo. Physics of Plasmas, 2017, 24, .	1.9	31
66	A strong diffusive ion mode in dense ionized matter predicted by Langevin dynamics. Nature Communications, 2017, 8, 14125.	12.8	30
67	Stimulated Brillouin scattering in the saturated regime. Physics of Plasmas, 2003, 10, 1846-1853.	1.9	29
68	Progress in long scale length laserâ€“plasma interactions. Nuclear Fusion, 2004, 44, S185-S190.	3.5	29
69	Evidence for a glassy state in strongly driven carbon. Scientific Reports, 2014, 4, 5214.	3.3	28
70	Inverse problem instabilities in large-scale modeling of matter in extreme conditions. Physics of Plasmas, 2019, 26, 112706.	1.9	27
71	Proton acceleration experiments and warm dense matter research using high power lasers. Plasma Physics and Controlled Fusion, 2009, 51, 124039.	2.1	26
72	Fast nonadiabatic dynamics of many-body quantum systems. Science Advances, 2019, 5, eaaw1634.	10.3	26

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73	Density fluctuations in the Yukawa one-component plasma: An accurate model for the dynamical structure factor. Physical Review E, 2011, 84, 046401.	2.1	25
74	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.	1.3	25
75	A reduced coupled-mode description for the electron-ion energy relaxation in dense matter. Europhysics Letters, 2008, 83, 15002.	2.0	24
76	Focal aberrations of large-aperture HOPG von-HÃmos x-ray spectrometers. Journal of Instrumentation, 2012, 7, P09015-P09015.	1.2	24
77	Supersonic plasma turbulence in the laboratory. Nature Communications, 2019, 10, 1758.	12.8	24
78	Soft X-ray scattering using FEL radiation for probing near-solid density plasmas at few electron volt temperatures. High Energy Density Physics, 2010, 6, 15-20.	1.5	23
79	Equilibration dynamics and conductivity of warm dense hydrogen. Physical Review E, 2014, 90, 013104.	2.1	22
80	Electron acceleration by wave turbulence in a magnetized plasma. Nature Physics, 2018, 14, 475-479.	16.7	22
81	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.	3.3	21
82	Probing near-solid density plasmas using soft x-ray scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 194017.	1.5	20
83	Observation of finite-wavelength screening in high-energy-density matter. Nature Communications, 2015, 6, 6839.	12.8	20
84	Electron-ion temperature equilibration in warm dense tantalum. High Energy Density Physics, 2015, 14, 1-5.	1.5	20
85	Time-resolved turbulent dynamo in a laser plasma. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
86	Theory of Thomson scattering in inhomogeneous media. Scientific Reports, 2016, 6, 24283.	3.3	19
87	Laboratory investigations on the origins of cosmic rays. Plasma Physics and Controlled Fusion, 2012, 54, 124049.	2.1	18
88	Quantum theory of Thomson scattering. High Energy Density Physics, 2014, 13, 55-83.	1.5	18
89	Field reconstruction from proton radiography of intense laser driven magnetic reconnection. Physics of Plasmas, 2019, 26, .	1.9	18
90	Radiative shocks produced from spherical cryogenic implosions at the National Ignition Facility. Physics of Plasmas, 2013, 20, 056315.	1.9	17

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91	Laboratory measurements of resistivity in warm dense plasmas relevant to the microphysics of brown dwarfs. Nature Communications, 2015, 6, 8742.	12.8	17
92	Micron-scale phenomena observed in a turbulent laser-produced plasma. Nature Communications, 2021, 12, 2679.	12.8	17
93	Spectrally resolved X-ray scatter from laser-shock-driven plasmas. Laser and Particle Beams, 2007, 25, 465-469.	1.0	16
94	Self-consistent measurement of the equation of state of liquid deuterium. High Energy Density Physics, 2012, 8, 76-80.	1.5	16
95	Modeling HEDLA magnetic field generation experiments on laser facilities. High Energy Density Physics, 2013, 9, 172-177.	1.5	16
96	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.	1.3	15
97	Direct Observation of Stimulated-Brillouin-Scattering Detuning by a Velocity Gradient. Physical Review Letters, 2003, 90, 155003.	7.8	14
98	Axion-Driven Cosmic Magnetogenesis during the QCD Crossover. Physical Review Letters, 2018, 121, 021301.	7.8	14
99	Observations of pressure anisotropy effects within semi-collisional magnetized plasma bubbles. Nature Communications, 2021, 12, 334.	12.8	14
100	Towards a quantum fluid theory of correlated many-fermion systems from first principles. SciPost Physics, 2022, 12, .	4.9	14
101	X-ray scattering from warm dense iron. High Energy Density Physics, 2013, 9, 573-577.	1.5	13
102	Limits on collective X-ray scattering imposed by coherence. Europhysics Letters, 2006, 74, 637-643.	2.0	12
103	Quantum hydrodynamics of strongly coupled electron fluids. Physical Review E, 2012, 85, 046408.	2.1	12
104	Calibration of initial measurements from the full aperture backscatter system on the National Ignition Facility. Review of Scientific Instruments, 2004, 75, 4174-4176.	1.3	11
105	A proposal for testing subcritical vacuum pair production with high power lasers. High Energy Density Physics, 2010, 6, 166-170.	1.5	11
106	Molecular Dynamics Simulations for the Shear Viscosity of the Oneâ€€Component Plasma. Contributions To Plasma Physics, 2012, 52, 58-61.	1.1	11
107	Retrieving fields from proton radiography without source profiles. Physical Review E, 2019, 100, 033208.	2.1	11
108	Strong suppression of heat conduction in a laboratory replica of galaxy-cluster turbulent plasmas. Science Advances, 2022, 8, eabj6799.	10.3	11

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109	A sensitive EUV Schwarzschild microscope for plasma studies with sub-micrometer resolution. Review of Scientific Instruments, 2018, 89, 023703.	1.3	10
110	Turbulent hydrodynamics experiments in high energy density plasmas: scientific case and preliminary results of the TurboHEDP project. High Power Laser Science and Engineering, 2018, 6, .	4.6	10
111	Measuring electron-positron annihilation radiation from laser plasma interactions. Review of Scientific Instruments, 2012, 83, 10E113.	1.3	9
112	Axion-like-particle decay in strong electromagnetic backgrounds. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
113	Inefficient Magnetic-Field Amplification in Supersonic Laser-Plasma Turbulence. Physical Review Letters, 2021, 127, 175002.	7.8	9
114	Static ion structure factor for dense plasmas: Semi-classical and ab initio calculations. High Energy Density Physics, 2010, 6, 305-310.	1.5	8
115	In-situ determination of dispersion and resolving power in simultaneous multiple-angle XUV spectroscopy. Journal of Instrumentation, 2011, 6, P10001-P10001.	1.2	8
116	X-ray Thomson scattering on shocked graphite. High Energy Density Physics, 2012, 8, 46-49.	1.5	8
117	Measurement of temperature and density using non-collective X-ray Thomson scattering in pulsed power produced warm dense plasmas. Scientific Reports, 2018, 8, 8432.	3.3	8
118	Transport of High-energy Charged Particles through Spatially Intermittent Turbulent Magnetic Fields. Astrophysical Journal, 2020, 892, 114.	4.5	8
119	Generating ultradense pair beams using 400 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>GeV</mml:mi><mml:mo>/</mml:mo><mml:mi>c</mml:mi></mml:math> protons. Physical Review Research, 2021, 3, .	3.6	8
120	Testing quantum mechanics in non-Minkowski space-time with high power lasers and 4th generation light sources. Scientific Reports, 2012, 2, 491.	3.3	8
121	Solid-density plasma characterization with x-ray scattering on the 200J Janus laser. Review of Scientific Instruments, 2006, 77, 10F317.	1.3	7
122	Ion structure in dense plasmas: MSA versus HNC. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214053.	2.1	7
123	Precision X-ray spectroscopy of intense laser-plasma interactions. High Energy Density Physics, 2011, 7, 105-109.	1.5	7
124	Experimental platform for the investigation of magnetized-reverse-shock dynamics in the context of POLAR. High Power Laser Science and Engineering, 2018, 6, .	4.6	7
125	Laboratory study of stationary accretion shock relevant to astrophysical systems. Scientific Reports, 2019, 9, 8157.	3.3	7
126	Laboratory Study of Bilateral Supernova Remnants and Continuous MHD Shocks. Astrophysical Journal, 2020, 896, 167.	4.5	7

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127	A case study of using x-ray Thomson scattering to diagnose the in-flight plasma conditions of DT cryogenic implosions. Physics of Plasmas, 2022, 29, 072703.	1.9	7
128	Secondary shock formation in xenon-nitrogen mixtures. Physics of Plasmas, 2006, 13, 112101.	1.9	6
129	Development of time resolved x-ray spectroscopy in high intensity laser-plasma interactions. Review of Scientific Instruments, 2006, 77, 10F322.	1.3	6
130	Simulation of X-ray scattering diagnostics in multi-dimensional plasma. High Energy Density Physics, 2013, 9, 510-515.	1.5	6
131	Exploring Mbar shock conditions and isochorically heated aluminum at the Matter in Extreme Conditions end station of the Linac Coherent Light Source (invited). Review of Scientific Instruments, 2014, 85, 11E702.	1.3	6
132	Ultrafast electron kinetics in short pulse laser-driven dense hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 224004.	1.5	6
133	Implementation of a Faraday rotation diagnostic at the OMEGA laser facility. High Power Laser Science and Engineering, 2018, 6, .	4.6	6
134	Axion detection through resonant photon-photon collisions. Physical Review D, 2020, 101, .	4.7	6
135	Experimental characterization of the interaction zone between counter-propagating Taylor Sedov blast waves. Physics of Plasmas, 2020, 27, .	1.9	6
136	Simulation of laser-driven, ablated plasma flows in collisionless shock experiments on OMEGA and the NIF. High Energy Density Physics, 2013, 9, 192-197.	1.5	5
137	Modified Friedmann Equations via Conformal Bohmâ€“de Broglie Gravity. Astrophysical Journal, 2019, 886, 50.	4.5	5
138	K-shell spectroscopy of Au plasma generated with a short-pulse laser¹This article is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. Canadian Journal of Physics, 2011, 89, 647-651.	1.1	4
139	Reply to â€œComment on â€˜Freeâ€“free opacity in warm-dense aluminumâ€™â€. High Energy Density Physics, 2011, 7, 40-42.	1.5	4
140	High-power laser experiments to study collisionless shock generation. EPJ Web of Conferences, 2013, 59, 15001.	0.3	4
141	Laboratory experiments on plasma jets in a magnetic field using high-power lasers. EPJ Web of Conferences, 2013, 59, 15005.	0.3	4
142	Investigation of the solidâ€“liquid phase transition of carbon at 150ÂGPa with spectrally resolved X-ray scattering. High Energy Density Physics, 2015, 14, 38-43.	1.5	4
143	Role of collisionality and radiative cooling in supersonic plasma jet collisions of different materials. Physical Review E, 2020, 101, 023205.	2.1	4
144	Molecular dynamics simulations of inelastic x-ray scattering from shocked copper. Journal of Applied Physics, 2021, 130, .	2.5	4

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145	Plasma switch as a temporal overlap tool for pump-probe experiments at FEL facilities. Journal of Instrumentation, 2012, 7, P08007-P08007.	1.2	3
146	Time evolution and asymmetry of a laser produced blast wave. Physics of Plasmas, 2017, 24, .	1.9	3
147	Axion particle production in a laser-induced dynamical spacetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 388-393.	4.1	3
148	Evolution of the Design and Fabrication of Astrophysics Targets for Turbulent Dynamo (TDYNO) Experiments on OMEGA. Fusion Science and Technology, 2018, 73, 434-445.	1.1	3
149	Analytical estimates of proton acceleration in laser-produced turbulent plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	3
150	Thomson scattering cross section in a magnetized, high-density plasma. Physical Review E, 2019, 99, 063204.	2.1	3
151	Light-shining-through-wall axion detection experiments with a stimulating laser. Physical Review D, 2022, 105, .	4.7	3
152	Triggering star formation: Experimental compression of a foam ball induced by Taylorâ€“Sedov blast waves. Matter and Radiation at Extremes, 2022, 7, .	3.9	3
153	Insensitivity of a turbulent laser-plasma dynamo to initial conditions. Matter and Radiation at Extremes, 2022, 7, .	3.9	3
154	Identifying deformation mechanisms in molecular dynamics simulations of laser shocked matter. Journal of Computational Physics, 2017, 350, 16-24.	3.8	2
155	Magneto-optic probe measurements in low density-supersonic jets. Journal of Instrumentation, 2017, 12, P12001-P12001.	1.2	2
156	Reply to â€˜Thomson scattering in inhomogeneous plasmas: The Role of the Fluctuation-Dissipation Theoremâ€™. Scientific Reports, 2018, 8, 7947.	3.3	2
157	Radiation and hot electron temperature measurements of short-pulselaser driven hohlraums. High Energy Density Physics, 2009, 5, 212-215.	1.5	1
158	Magnetic field generation by Biermann battery and Weibel instability in laboratory shock waves. EAS Publications Series, 2012, 58, 23-26.	0.3	1
159	FLASH hydrodynamic simulations of experiments to explore the generation ofÂcosmological magnetic fields. High Energy Density Physics, 2013, 9, 75-81.	1.5	1
160	High Mach-number collisionless shock driven by a laser with an external magnetic field. EPJ Web of Conferences, 2013, 59, 15004.	0.3	1
161	Characterization of x-ray lens for use in probing high energy density states of matter. Journal of Instrumentation, 2015, 10, P04010-P04010.	1.2	1
162	Theory of density fluctuations in strongly radiative plasmas. Physical Review E, 2016, 93, 033201.	2.1	1

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163	A laboratory model of post-Newtonian gravity with high power lasers and 4th generation light sources. Classical and Quantum Gravity, 2016, 33, 075010.	4.0	1
164	Neutrino-electron magnetohydrodynamics in an expanding universe. Physical Review D, 2021, 104, .	4.7	1
165	Learning transport processes with machine intelligence. Scientific Reports, 2022, 12, .	3.3	1
166	Hybrid Simulations for the Ion Structure and Dynamics in Dense Plasmas. , 2009, , .		0
167	Perspective for high energy density studies using x-ray free electron lasers. , 2009, , .		0
168	X-ray Polarization Measurements of Dense Plasmas Heated by Fast Electrons. , 2010, , .		0
169	Nanosecond Imaging of Shock- and Jet-Like Features. IEEE Transactions on Plasma Science, 2014, 42, 2496-2497.	1.3	0
170	Reply to: Reconsidering X-ray plasmons. Nature Photonics, 2019, 13, 751-753.	31.4	0