

Gianluca Gregori

List of Publications by Year in descending order

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170
papers

5,671
citations

57758

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95266

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172
all docs

172
docs citations

172
times ranked

3273
citing authors

#	ARTICLE	IF	CITATIONS
1	Building high accuracy emulators for scientific simulations with deep neural architecture search. Machine Learning: Science and Technology, 2022, 3, 015013.	5.0	46
2	Towards a quantum fluid theory of correlated many-fermion systems from first principles. SciPost Physics, 2022, 12, .	4.9	14
3	Light-shining-through-wall axion detection experiments with a stimulating laser. Physical Review D, 2022, 105, .	4.7	3
4	Strong suppression of heat conduction in a laboratory replica of galaxy-cluster turbulent plasmas. Science Advances, 2022, 8, eabj6799.	10.3	11
5	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
6	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
7	Learning transport processes with machine intelligence. Scientific Reports, 2022, 12, .	3.3	1
8	Insensitivity of a turbulent laser-plasma dynamo to initial conditions. Matter and Radiation at Extremes, 2022, 7, .	3.9	3
9	Observations of pressure anisotropy effects within semi-collisional magnetized plasma bubbles. Nature Communications, 2021, 12, 334.	12.8	14
10	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
11	Generating ultradense pair beams using 400 GeV protons. Physical Review Research, 2021, 3, .	4.6	1
12	Micron-scale phenomena observed in a turbulent laser-produced plasma. Nature Communications, 2021, 12, 2679.	12.8	17
13	Molecular dynamics simulations of inelastic x-ray scattering from shocked copper. Journal of Applied Physics, 2021, 130, .	2.5	4
14	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
15	Inefficient Magnetic-Field Amplification in Supersonic Laser-Plasma Turbulence. Physical Review Letters, 2021, 127, 175002.	7.8	9
16	Neutrino-electron magnetohydrodynamics in an expanding universe. Physical Review D, 2021, 104, .	4.7	1
17	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
18	Axion detection through resonant photon-photon collisions. Physical Review D, 2020, 101, .	4.7	6

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19	Electron acceleration in laboratory-produced turbulent collisionless shocks. <i>Nature Physics</i> , 2020, 16, 916-920.	16.7	60
20	Transport of High-energy Charged Particles through Spatially Intermittent Turbulent Magnetic Fields. <i>Astrophysical Journal</i> , 2020, 892, 114.	4.5	8
21	Laboratory Study of Bilateral Supernova Remnants and Continuous MHD Shocks. <i>Astrophysical Journal</i> , 2020, 896, 167.	4.5	7
22	Experimental characterization of the interaction zone between counter-propagating Taylor Sedov blast waves. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
23	Role of collisionality and radiative cooling in supersonic plasma jet collisions of different materials. <i>Physical Review E</i> , 2020, 101, 023205.	2.1	4
24	Field reconstruction from proton radiography of intense laser driven magnetic reconnection. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	18
25	Reply to: Reconsidering X-ray plasmons. <i>Nature Photonics</i> , 2019, 13, 751-753.	31.4	0
26	Thomson scattering cross section in a magnetized, high-density plasma. <i>Physical Review E</i> , 2019, 99, 063204.	2.1	3
27	Laboratory study of stationary accretion shock relevant to astrophysical systems. <i>Scientific Reports</i> , 2019, 9, 8157.	3.3	7
28	Supersonic plasma turbulence in the laboratory. <i>Nature Communications</i> , 2019, 10, 1758.	12.8	24
29	Modified Friedmann Equations via Conformal Bohm de Broglie Gravity. <i>Astrophysical Journal</i> , 2019, 886, 50.	4.5	5
30	Axion-like-particle decay in strong electromagnetic backgrounds. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	9
31	Inverse problem instabilities in large-scale modeling of matter in extreme conditions. <i>Physics of Plasmas</i> , 2019, 26, 112706.	1.9	27
32	Fast nonadiabatic dynamics of many-body quantum systems. <i>Science Advances</i> , 2019, 5, eaaw1634.	10.3	26
33	Retrieving fields from proton radiography without source profiles. <i>Physical Review E</i> , 2019, 100, 033208.	2.1	11
34	A sensitive EUV Schwarzschild microscope for plasma studies with sub-micrometer resolution. <i>Review of Scientific Instruments</i> , 2018, 89, 023703.	1.3	10
35	Laboratory evidence of dynamo amplification of magnetic fields in a turbulent plasma. <i>Nature Communications</i> , 2018, 9, 591.	12.8	105
36	Axion particle production in a laser-induced dynamical spacetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 777, 388-393.	4.1	3

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37	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
38	Guiding of relativistic electron beams in dense matter by laser-driven magnetostatic fields. Nature Communications, 2018, 9, 102.	12.8	86
39	Electron acceleration by wave turbulence in a magnetized plasma. Nature Physics, 2018, 14, 475-479.	16.7	22
40	Analytical estimates of proton acceleration in laser-produced turbulent plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	3
41	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
42	Implementation of a Faraday rotation diagnostic at the OMEGA laser facility. High Power Laser Science and Engineering, 2018, 6, .	4.6	6
43	Reply to "Thomson scattering in inhomogeneous plasmas: The Role of the Fluctuation-Dissipation Theorem". Scientific Reports, 2018, 8, 7947.	3.3	2
44	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
45	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
46	Axion-Driven Cosmic Magnetogenesis during the QCD Crossover. Physical Review Letters, 2018, 121, 021301.	7.8	14
47	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
48	A strong diffusive ion mode in dense ionized matter predicted by Langevin dynamics. Nature Communications, 2017, 8, 14125.	12.8	30
49	Numerical modeling of laser-driven experiments aiming to demonstrate magnetic field amplification via turbulent dynamo. Physics of Plasmas, 2017, 24, .	1.9	31
50	Time evolution and asymmetry of a laser produced blast wave. Physics of Plasmas, 2017, 24, .	1.9	3
51	Identifying deformation mechanisms in molecular dynamics simulations of laser shocked matter. Journal of Computational Physics, 2017, 350, 16-24.	3.8	2
52	Transition from Collisional to Collisionless Regimes in Interpenetrating Plasma Flows on the National Ignition Facility. Physical Review Letters, 2017, 118, 185003.	7.8	49
53	Magneto-optic probe measurements in low density-supersonic jets. Journal of Instrumentation, 2017, 12, P12001-P12001.	1.2	2
54	Proton imaging of stochastic magnetic fields. Journal of Plasma Physics, 2017, 83, .	2.1	47

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55	Scaled laboratory experiments explain the kink behaviour of the Crab Nebula jet. Nature Communications, 2016, 7, 13081.	12.8	46
56	Theory of Thomson scattering in inhomogeneous media. Scientific Reports, 2016, 6, 24283.	3.3	19
57	Theory of density fluctuations in strongly radiative plasmas. Physical Review E, 2016, 93, 033201.	2.1	1
58	Nanosecond formation of diamond and lonsdaleite by shock compression of graphite. Nature Communications, 2016, 7, 10970.	12.8	167
59	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
60	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
61	Laboratory measurements of resistivity in warm dense plasmas relevant to the microphysics of brown dwarfs. Nature Communications, 2015, 6, 8742.	12.8	17
62	Observation of magnetic field generation via the Weibel instability in interpenetrating plasma flows. Nature Physics, 2015, 11, 173-176.	16.7	236
63	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
64	Investigation of the solid-liquid phase transition of carbon at 150 GPa with spectrally resolved X-ray scattering. High Energy Density Physics, 2015, 14, 38-43.	1.5	4
65	Observation of finite-wavelength screening in high-energy-density matter. Nature Communications, 2015, 6, 6839.	12.8	20
66	Ultrabright X-ray laser scattering for dynamic warm dense matter physics. Nature Photonics, 2015, 9, 274-279.	31.4	208
67	FLASH MHD simulations of experiments that study shock-generated magnetic fields. High Energy Density Physics, 2015, 17, 24-31.	1.5	54
68	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
69	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
70	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
71	Electron-ion temperature equilibration in warm dense tantalum. High Energy Density Physics, 2015, 14, 1-5.	1.5	20
72	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

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73	SCALING OF MAGNETO-QUANTUM-RADIATIVE HYDRODYNAMIC EQUATIONS: FROM LASER-PRODUCED PLASMAS TO ASTROPHYSICS. <i>Astrophysical Journal</i> , 2014, 795, 59.	4.5	34
74	Electron-Ion Equilibration in Ultrafast Heated Graphite. <i>Physical Review Letters</i> , 2014, 112, 145005.	7.8	44
75	Quantum theory of Thomson scattering. <i>High Energy Density Physics</i> , 2014, 13, 55-83.	1.5	18
76	Nanosecond Imaging of Shock- and Jet-Like Features. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2496-2497.	1.3	0
77	Electron-phonon equilibration in laser-heated gold films. <i>Physical Review B</i> , 2014, 90, .	3.2	33
78	Equilibration dynamics and conductivity of warm dense hydrogen. <i>Physical Review E</i> , 2014, 90, 013104.	2.1	22
79	Resolving Ultrafast Heating of Dense Cryogenic Hydrogen. <i>Physical Review Letters</i> , 2014, 112, 105002.	7.8	95
80	Observations of Continuum Depression in Warm Dense Matter with X-Ray Thomson Scattering. <i>Physical Review Letters</i> , 2014, 112, 145004.	7.8	105
81	Turbulent amplification of magnetic fields in laboratory laser-produced shock waves. <i>Nature Physics</i> , 2014, 10, 520-524.	16.7	84
82	Evidence for a glassy state in strongly driven carbon. <i>Scientific Reports</i> , 2014, 4, 5214.	3.3	28
83	Orbital-Free Density-Functional Theory Simulations of the Dynamic Structure Factor of Warm Dense Aluminum. <i>Physical Review Letters</i> , 2013, 111, 175002.	7.8	74
84	Probing the Complex Ion Structure in Liquid Carbon at 100ÅGPa. <i>Physical Review Letters</i> , 2013, 111, 255501.	7.8	49
85	Modeling HEDLA magnetic field generation experiments on laser facilities. <i>High Energy Density Physics</i> , 2013, 9, 172-177.	1.5	16
86	Simulation of laser-driven, ablated plasma flows in collisionless shock experiments on OMEGA and the NIF. <i>High Energy Density Physics</i> , 2013, 9, 192-197.	1.5	5
87	FLASH hydrodynamic simulations of experiments to explore the generation of cosmological magnetic fields. <i>High Energy Density Physics</i> , 2013, 9, 75-81.	1.5	1
88	X-ray scattering from warm dense iron. <i>High Energy Density Physics</i> , 2013, 9, 573-577.	1.5	13
89	Simulation of X-ray scattering diagnostics in multi-dimensional plasma. <i>High Energy Density Physics</i> , 2013, 9, 510-515.	1.5	6
90	Radiative shocks produced from spherical cryogenic implosions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2013, 20, 056315.	1.9	17

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91	Visualizing electromagnetic fields in laser-produced counter-streaming plasma experiments for collisionless shock laboratory astrophysics. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	36
92	High-power laser experiments to study collisionless shock generation. <i>EPJ Web of Conferences</i> , 2013, 59, 15001.	0.3	4
93	High Mach-number collisionless shock driven by a laser with an external magnetic field. <i>EPJ Web of Conferences</i> , 2013, 59, 15004.	0.3	1
94	Laboratory experiments on plasma jets in a magnetic field using high-power lasers. <i>EPJ Web of Conferences</i> , 2013, 59, 15005.	0.3	4
95	Laboratory investigations on the origins of cosmic rays. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124049.	2.1	18
96	Plasma switch as a temporal overlap tool for pump-probe experiments at FEL facilities. <i>Journal of Instrumentation</i> , 2012, 7, P08007-P08007.	1.2	3
97	Measurement of Radiative Shock Properties by X-Ray Thomson Scattering. <i>Physical Review Letters</i> , 2012, 108, 145001.	7.8	34
98	Measuring electron-positron annihilation radiation from laser plasma interactions. <i>Review of Scientific Instruments</i> , 2012, 83, 10E113.	1.3	9
99	XUV spectroscopic characterization of warm dense aluminum plasmas generated by the free-electron-laser FLASH. <i>Laser and Particle Beams</i> , 2012, 30, 45-56.	1.0	36
100	Magnetic field generation by Biermann battery and Weibel instability in laboratory shock waves. <i>EAS Publications Series</i> , 2012, 58, 23-26.	0.3	1
101	Generation of scaled protogalactic seed magnetic fields in laser-produced shock waves. <i>Nature</i> , 2012, 481, 480-483.	27.8	113
102	Focal aberrations of large-aperture HOPG von-HÃamos x-ray spectrometers. <i>Journal of Instrumentation</i> , 2012, 7, P09015-P09015.	1.2	24
103	DESIGN CONSIDERATIONS FOR UNMAGNETIZED COLLISIONLESS-SHOCK MEASUREMENTS IN HOMOLOGOUS FLOWS. <i>Astrophysical Journal</i> , 2012, 749, 171.	4.5	38
104	Quantum hydrodynamics of strongly coupled electron fluids. <i>Physical Review E</i> , 2012, 85, 046408.	2.1	12
105	FLASH magnetohydrodynamic simulations of shock-generated magnetic field experiments. <i>High Energy Density Physics</i> , 2012, 8, 322-328.	1.5	33
106	X-ray Thomson scattering on shocked graphite. <i>High Energy Density Physics</i> , 2012, 8, 46-49.	1.5	8
107	Studying astrophysical collisionless shocks with counterstreaming plasmas from high power lasers. <i>High Energy Density Physics</i> , 2012, 8, 38-45.	1.5	82
108	Inelastic X-Ray Scattering from Shocked Liquid Deuterium. <i>Physical Review Letters</i> , 2012, 109, 265003.	7.8	43

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109	Self-organized electromagnetic field structures in laser-produced counter-streaming plasmas. <i>Nature Physics</i> , 2012, 8, 809-812.	16.7	118
110	Self-consistent measurement of the equation of state of liquid deuterium. <i>High Energy Density Physics</i> , 2012, 8, 76-80.	1.5	16
111	Characterizing counter-streaming interpenetrating plasmas relevant to astrophysical collisionless shocks. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	101
112	Molecular Dynamics Simulations for the Shear Viscosity of the One-Component Plasma. <i>Contributions To Plasma Physics</i> , 2012, 52, 58-61.	1.1	11
113	Testing quantum mechanics in non-Minkowski space-time with high power lasers and 4th generation light sources. <i>Scientific Reports</i> , 2012, 2, 491.	3.3	8
114	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.. <i>Canadian Journal of Physics</i> , 2011, 89, 647-651.	1.1	4
115	Density fluctuations in the Yukawa one-component plasma: An accurate model for the dynamical structure factor. <i>Physical Review E</i> , 2011, 84, 046401.	2.1	25
116	Extent of validity of the hydrodynamic description of ions in dense plasmas. <i>Physical Review E</i> , 2011, 83, 015401.	2.1	42
117	X-ray scattering as a probe for warm dense mixtures and high-pressure miscibility. <i>Europhysics Letters</i> , 2011, 94, 25001.	2.0	35
118	In-situ determination of dispersion and resolving power in simultaneous multiple-angle XUV spectroscopy. <i>Journal of Instrumentation</i> , 2011, 6, P10001-P10001.	1.2	8
119	Reply to "Comment on "Free-free opacity in warm-dense aluminum" High Energy Density Physics, 2011, 7, 40-42.	1.5	4
120	Precision X-ray spectroscopy of intense laser-plasma interactions. <i>High Energy Density Physics</i> , 2011, 7, 105-109.	1.5	7
121	Towards laboratory produced relativistic electron-positron pair plasmas. <i>High Energy Density Physics</i> , 2011, 7, 225-229.	1.5	36
122	Soft X-ray scattering using FEL radiation for probing near-solid density plasmas at few electron volt temperatures. <i>High Energy Density Physics</i> , 2010, 6, 15-20.	1.5	23
123	Static ion structure factor for dense plasmas: Semi-classical and ab initio calculations. <i>High Energy Density Physics</i> , 2010, 6, 305-310.	1.5	8
124	A proposal for testing subcritical vacuum pair production with high power lasers. <i>High Energy Density Physics</i> , 2010, 6, 166-170.	1.5	11
125	Ultrafast Melting of Carbon Induced by Intense Proton Beams. <i>Physical Review Letters</i> , 2010, 105, 265701.	7.8	93
126	Observation of Ultrafast Nonequilibrium Collective Dynamics in Warm Dense Hydrogen. <i>Physical Review Letters</i> , 2010, 104, 125002.	7.8	101

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127	X-ray Polarization Measurements of Dense Plasmas Heated by Fast Electrons. , 2010, , .		0
128	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
129	Electronic Structure of an XUV Photogenerated Solid-Density Aluminum Plasma. Physical Review Letters, 2010, 104, 225001.	7.8	62
130	Low frequency structural dynamics of warm dense matter. Physics of Plasmas, 2009, 16, 056306.	1.9	50
131	Ion structure in dense plasmas: MSA versus HNC. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214053.	2.1	7
132	Free-free opacity in warm dense aluminum. High Energy Density Physics, 2009, 5, 124-131.	1.5	32
133	Radiation and hot electron temperature measurements of short-pulse laser driven hohlraums. High Energy Density Physics, 2009, 5, 212-215.	1.5	1
134	Hybrid Simulations for the Ion Structure and Dynamics in Dense Plasmas. , 2009, , .		0
135	Perspective for high energy density studies using x-ray free electron lasers. , 2009, , .		0
136	Measurement of Short-Range Correlations in Shock-Compressed Plastic by Short-Pulse X-Ray Scattering. Physical Review Letters, 2009, 102, 165004.	7.8	47
137	Measurements of Ionic Structure in Shock Compressed Lithium Hydride from Ultrafast X-Ray Thomson Scattering. Physical Review Letters, 2009, 103, 245004.	7.8	51
138	Proton acceleration experiments and warm dense matter research using high power lasers. Plasma Physics and Controlled Fusion, 2009, 51, 124039.	2.1	26
139	Probing warm dense lithium by inelastic X-ray scattering. Nature Physics, 2008, 4, 940-944.	16.7	148
140	A reduced coupled-mode description for the electron-ion energy relaxation in dense matter. Europhysics Letters, 2008, 83, 15002.	2.0	24
141	Laser Heating of Solid Matter by Light-Pressure-Driven Shocks at Ultrarelativistic Intensities. Physical Review Letters, 2008, 100, 165002.	7.8	75
142	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
143	Direct Observation of Strong Ion Coupling in Laser-Driven Shock-Compressed Targets. Physical Review Letters, 2007, 99, 135006.	7.8	50
144	Spectrally resolved X-ray scatter from laser-shock-driven plasmas. Laser and Particle Beams, 2007, 25, 465-469.	1.0	16

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145	Creation of hot dense matter in short-pulse laser-plasma interaction with tamped titanium foils. <i>Physics of Plasmas</i> , 2007, 14, 102701.	1.9	42
146	Derivation of the static structure factor in strongly coupled non-equilibrium plasmas for X-ray scattering studies. <i>High Energy Density Physics</i> , 2007, 3, 99-108.	1.5	62
147	Thomson scattering from near-solid density plasmas using soft X-ray free electron lasers. <i>High Energy Density Physics</i> , 2007, 3, 120-130.	1.5	61
148	Electron-density scaling of conversion efficiency of laser energy into L-shell X-rays. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 186-198.	2.3	35
149	Measurement of carbon ionization balance in high-temperature plasma mixtures by temporally resolved X-ray scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 225-237.	2.3	56
150	X-ray probe development for collective scattering measurements in dense plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 636-648.	2.3	48
151	Limits on collective X-ray scattering imposed by coherence. <i>Europhysics Letters</i> , 2006, 74, 637-643.	2.0	12
152	Application of imaging plates to x-ray imaging and spectroscopy in laser plasma experiments (invited). <i>Review of Scientific Instruments</i> , 2006, 77, 10E325.	1.3	65
153	Solid-density plasma characterization with x-ray scattering on the 200J Janus laser. <i>Review of Scientific Instruments</i> , 2006, 77, 10F317.	1.3	7
154	Secondary shock formation in xenon-nitrogen mixtures. <i>Physics of Plasmas</i> , 2006, 13, 112101.	1.9	6
155	Development of time resolved x-ray spectroscopy in high intensity laser-plasma interactions. <i>Review of Scientific Instruments</i> , 2006, 77, 10F322.	1.3	6
156	Integrated laser-target interaction experiments on the RAL petawatt laser. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B833-B840.	2.1	64
157	Electronic structure measurements of dense plasmas. <i>Physics of Plasmas</i> , 2004, 11, 2754-2762.	1.9	72
158	Progress in long scale length laser-plasma interactions. <i>Nuclear Fusion</i> , 2004, 44, S185-S190.	3.5	29
159	Implementation of a high energy 4% probe beam on the Omega laser. <i>Review of Scientific Instruments</i> , 2004, 75, 3906-3908.	1.3	38
160	Calibration of initial measurements from the full aperture backscatter system on the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2004, 75, 4174-4176.	1.3	11
161	Effect of Nonlocal Transport on Heat-Wave Propagation. <i>Physical Review Letters</i> , 2004, 92, 205006.	7.8	68
162	X-ray line measurements with high efficiency Bragg crystals. <i>Review of Scientific Instruments</i> , 2004, 75, 3747-3749.	1.3	86

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163	Theoretical model of x-ray scattering as a dense matter probe. <i>Physical Review E</i> , 2003, 67, 026412.	2.1	168
164	Demonstration of Spectrally Resolved X-Ray Scattering in Dense Plasmas. <i>Physical Review Letters</i> , 2003, 90, 175002.	7.8	227
165	Direct Observation of Stimulated-Brillouin-Scattering Detuning by a Velocity Gradient. <i>Physical Review Letters</i> , 2003, 90, 155003.	7.8	14
166	Stimulated Brillouin scattering in the saturated regime. <i>Physics of Plasmas</i> , 2003, 10, 1846-1853.	1.9	29
167	X-ray scattering from solid density plasmas. <i>Physics of Plasmas</i> , 2003, 10, 2433-2441.	1.9	69
168	Three-dimensional Magnetohydrodynamic Numerical Simulations of Cloud-Wind Interactions. <i>Astrophysical Journal</i> , 2000, 543, 775-786.	4.5	59
169	Thomson scattering measurements in atmospheric plasma jets. <i>Physical Review E</i> , 1999, 59, 2286-2291.	2.1	31
170	Enhanced Cloud Disruption by Magnetic Field Interaction. <i>Astrophysical Journal</i> , 1999, 527, L113-L116.	4.5	49