Toshinori Yabuuchi

List of Publications by Year in descending order

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107 1,878 23 41
papers citations h-index g-index

109 109 109 1452 all docs docs citations times ranked citing authors

#	ARTICLE: t equation-of-state and structure of laser-shocked polyimide <mml:math 1996="" math="" mathwt="" nctp:="" www.ws.org="" xmins:mmi="http://www.w3.org/1998/iviath/</th><th>IF</th><th>CITATIONS</th></tr><tr><td>1</td><td>mathvariant="><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mrow><mmi:mr< td=""><td>1.1</td><td>4</td></mmi:mr<></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mmi:mrow></mml:math>	1.1	4
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6	X-ray radiography based on the phase-contrast imaging with using LiF detector. Journal of Physics: Conference Series, 2021, 1787, 012027.	0.3	0
7	Liquid Structure of Tantalum under Internal Negative Pressure. Physical Review Letters, 2021, 126, 175503.	2.9	6
8	Micron-scale phenomena observed in a turbulent laser-produced plasma. Nature Communications, 2021, 12, 2679.	5.8	17
9	Spatially resolved single-shot absorption spectroscopy with x-ray free electron laser pulse. Review of Scientific Instruments, 2021, 92, 053534.	0.6	2
10	Ultrafast olivine-ringwoodite transformation during shock compression. Nature Communications, 2021, 12, 4305.	5.8	9
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14	Evidence of shock-compressed stishovite above 300 GPa. Scientific Reports, 2020, 10, 10197.	1.6	8
15	Toward the Fusion of High-Power Laser Shock and Material Sciences. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2020, 30, 216-224.	0.1	0
16	Ultrafast anisotropic disordering in graphite driven by intense hard X-ray pulses. High Energy Density Physics, 2019, 32, 63-69.	0.4	13
17	Monochromatic 2D <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow>K<mml:mi>α</mml:mi></mml:mrow></mml:math> Emission Images Revealing Short-Pulse Laser Isochoric Heating Mechanism. Physical Review Letters, 2019. 122. 155002.	2.9	16
18	An experimental platform using high-power, high-intensity optical lasers with the hard X-ray free-electron laser at SACLA. Journal of Synchrotron Radiation, 2019, 26, 585-594.	1.0	17

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20	In Situ Characterization of XFEL Beam Intensity Distribution and Focusability by High-Resolution LiF Crystal Detector. Springer Proceedings in Physics, 2018, , 109-115.	0.1	0
21	Advanced high resolution x-ray diagnostic for HEDP experiments. Scientific Reports, 2018, 8, 16407.	1.6	16
22	Reduced fast electron transport in shock-heated plasma in multilayer targets due to self-generated magnetic fields. Physical Review E, 2018, 98, .	0.8	0
23	Development of new diagnostics based on LiF detector for pump-probe experiments. Matter and Radiation at Extremes, 2018, 3, 197-206.	1.5	8
24	Ultrafast observation of lattice dynamics in laser-irradiated gold foils. Applied Physics Letters, 2017, 110, .	1.5	20
25	Coherent X-ray beam metrology using 2D high-resolution Fresnel-diffraction analysis. Journal of Synchrotron Radiation, 2017, 24, 196-204.	1.0	10
26	Overview of optics, photon diagnostics and experimental instruments at SACLA: development, operation and scientific applications., 2017,,.		3
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30	<i>Indirect</i> monitoring shot-to-shot shock waves strength reproducibility during pump–probe experiments. Journal of Applied Physics, 2016, 120, .	1.1	5
31	Visualizing fast electron energy transport into laser-compressed high-density fast-ignitionÂtargets. Nature Physics, 2016, 12, 499-504.	6.5	49
32	Simulated ablation of carbon wall by alpha particles for a laser fusion reactor. Journal of Nuclear Materials, 2015, 459, 77-80.	1.3	0
33	Slowdown mechanisms of ultraintense laser propagation in critical density plasma. Physical Review E, 2015, 92, 013106.	0.8	3
34	Laser scattered images observed from carbon plasma stagnation and following molecular formation. Applied Physics Letters, 2014, 104, .	1.5	6
35	Interpenetration and stagnation in colliding laser plasmas. Physics of Plasmas, 2014, 21, 013502.	0.7	33
36	Formation of carbon allotrope aerosol by colliding plasmas in an inertial fusion reactor. Nuclear Fusion, 2014, 54, 022003.	1.6	8

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37	Effect of defocusing on picosecond laser-coupling into gold cones. Physics of Plasmas, 2014, 21, 012702.	0.7	1
38	Investigation of fast-electron-induced <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi>K</mml:mi></mml:math> $\hat{l}\pm x$ rays in laser-produced blow-off plasma. Physical Review E, 2014, 89, 033105.	0.8	5
39	Collimation of Energetic Electrons from a Laser-Target Interaction by a Magnetized Target Back Plasma Preformed by a Long-Pulse Laser. Physical Review Letters, 2014, 112, .	2.9	25
40	Stopping and transport of fast electrons in superdense matter. Physics of Plasmas, 2013, 20, 083301.	0.7	3
41	Impact of extended preplasma on energy coupling in kilojoule energy relativistic laser interaction with cone wire targets relevant to fast ignition. New Journal of Physics, 2013, 15, 015020.	1.2	7
42	Electron energy distributions through superdense matter by Monte-Carlo simulations. EPJ Web of Conferences, 2013, 59, 17018.	0.1	0
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47	Temporally resolved characterization of shock-heated foam target with Al absorption spectroscopy for fast electron transport study. Physics of Plasmas, 2012, 19, 092705.	0.7	1
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49	Material Dependence on Plasma Shielding Induced by Laser Ablation. Plasma and Fusion Research, 2012, 7, 2405065-2405065.	0.3	5
50	Numerical modeling of fast electron generation in the presence of preformed plasma in laser-matter interaction at relativistic intensities. Physical Review E, 2011, 83, 046401.	0.8	57
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53	Divergence of laser-generated hot electrons generated in a cone geometry. Journal of Physics: Conference Series, 2010, 244, 022064.	0.3	0
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55	Hot electron generation and transport using Kl̂± emission. Journal of Physics: Conference Series, 2010, 244, 022026.	0.3	3
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57	Development of multi-channel electron spectrometer. Review of Scientific Instruments, 2010, 81, 10E535.	0.6	11
58	Single-shot divergence measurements of a laser-generated relativistic electron beam. Physics of Plasmas, 2010, 17, .	0.7	11
59	Transport study of intense-laser-produced fast electrons in solid targets with a preplasma created by a long pulse laser. Physics of Plasmas, 2010, 17, .	0.7	37
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62	Effect of reentrant cone geometry on energy transport in intense laser-plasma interactions. Physical Review E, 2009, 80, 045401.	0.8	4
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67	Evidence of anomalous resistivity for hot electron propagation through a dense fusion core in fast ignition experiments. New Journal of Physics, 2009, 11, 093031.	1.2	20
68	Study of hot electron production and transport as a function of preplasma filling of hollow cone targets. , 2009, , .		0
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70	Measurements of fast electron scaling generated by petawatt laser systems. Physics of Plasmas, 2009, 16, .	0.7	40
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73	High energy electron acceleration with PW-class laser system. AIP Conference Proceedings, 2008, , .	0.3	О
74	Focus optimization of relativistic self-focusing for anomalous laser penetration into overdense plasmas (super-penetration). Plasma Physics and Controlled Fusion, 2008, 50, 105011.	0.9	31
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76	Absolute calibration of imaging plate for GeV electrons. Review of Scientific Instruments, 2008, 79, 066102.	0.6	23
77	Fast heating of wire target attached on entrant hollow cone with ultra-intense laser up to keV order. Journal of Physics: Conference Series, 2008, 112, 022058.	0.3	0
78	Absolute calibration of imaging plate for electron spectrometer measuring GeV-class electrons. Journal of Physics: Conference Series, 2008, 112, 032073.	0.3	1
79	Hot electron emission limited by self-excited fields from targets irradiated by ultra-intense laser pulses. Journal of Physics: Conference Series, 2008, 112, 022093.	0.3	1
80	Hot electron spatial distribution under presence of laser light self-focusing in over-dense plasmas. Journal of Physics: Conference Series, 2008, 112, 022095.	0.3	5
81	High Intensity Laser Propagation though Overdense Plasmas. The Review of Laser Engineering, 2008, 36, 1139-1141.	0.0	0
82	Plasma Devices to Control Energetic Electrons Produced by Ultra-intense Lasers. The Review of Laser Engineering, 2008, 36, 1146-1149.	0.0	0
83	Measurements of Energy Transport Patterns in Solid Density Laser Plasma Interactions at Intensities of5×1020  W cmâ°'2. Physical Review Letters, 2007, 98, 125002.	2.9	117
84	On the behavior of ultraintense laser produced hot electrons in self-excited fields. Physics of Plasmas, 2007, 14, 040706.	0.7	39
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86	Effect of sheath potential on electromagnetic radiation emitted from the rear surface of a metallic foil target. Chinese Physics B, 2007, 16, 3009-3015.	1.3	0
87	Relativistic laser channeling in plasmas for fast ignition. Physical Review E, 2007, 76, 066403.	0.8	31
88	Laser generated proton beam focusing and high temperature isochoric heating of solid matter. Physics of Plasmas, 2007, 14, .	0.7	67
89	Zonal Proton Generation from Target Edges Using Ultra-Intense Laser Pulse. Plasma and Fusion Research, 2007, 2, 003-003.	0.3	2
90	Influence of Electrostatic and Magnetic Fields on Hot Electron Emission in Ultra-Intense Laser Matter Interactions. Plasma and Fusion Research, 2007, 2, 015-015.	0.3	1

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91	Optimum Hot Electron Production with Low-Density Foams for Laser Fusion by Fast Ignition. Physical Review Letters, 2006, 96, 255006.	2.9	50
92	Surface Acceleration of Fast Electrons with Relativistic Self-Focusing in Preformed Plasma. Physical Review Letters, 2006, 97, 095004.	2.9	52
93	Transient Electrostatic Fields and Related Energetic Proton Generation with a Plasma Fiber. Physical Review Letters, 2006, 96, 084802.	2.9	14
94	Studies of proton generation and focusing for fast ignition applications. , 2006, , .		0
95	High energy electron transport in solids. European Physical Journal Special Topics, 2006, 133, 355-360.	0.2	2
96	Study of electron and proton isochoric heating for fast ignition. European Physical Journal Special Topics, 2006, 133, 371-378.	0.2	8
97	Relativistic laser channeling into high-density plasmas. European Physical Journal Special Topics, 2006, 133, 409-412.	0.2	1
98	Bulk acceleration of ions in intense laser interaction with foams. Plasma Physics and Controlled Fusion, 2005, 47, B879-B889.	0.9	11
99	Enhancement of energetic electrons and protons by cone guiding of laser light. Physical Review E, 2005, 71, 036403.	0.8	45
100	Calibration of imaging plate for high energy electron spectrometer. Review of Scientific Instruments, 2005, 76, 013507.	0.6	240
101	Demonstration of bulk acceleration of ions in ultraintense laser interactions with low-density foams. Physical Review E, 2005, 72, 066404.	0.8	50
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104	Characterization of preplasma produced by an ultrahigh intensity laser system. Physics of Plasmas, 2004, 11, 3721-3725.	0.7	19
105	Progress and perspectives of fast ignition. Plasma Physics and Controlled Fusion, 2004, 46, B41-B49.	0.9	18
106	Plasma devices to guide and collimate a high density of MeV electrons. Nature, 2004, 432, 1005-1008.	13.7	170
107	Basic and integrated studies for fast ignition. Physics of Plasmas, 2003, 10, 1925-1930.	0.7	58