

# Lorenzo Torrisi

## List of Publications by Year in descending order

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466  
papers

5,718  
citations

117453

34  
h-index

205818

48  
g-index

467  
all docs

467  
docs citations

467  
times ranked

2683  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tantalum ions produced by 1064 nm pulsed laser irradiation. Journal of Applied Physics, 2002, 91, 4685-4692.	1.1	127
2	Characterization of ultra-high-molecular-weight polyethylene (UHMWPE) modified by ion implantation. Polymer, 2004, 45, 1707-1715.	1.8	102
3	Plastic scintillator investigations for relative dosimetry in proton-therapy. Nuclear Instruments & Methods in Physics Research B, 2000, 170, 523-530.	0.6	88
4	Study on the ablation threshold induced by pulsed lasers at different wavelengths. Nuclear Instruments & Methods in Physics Research B, 2007, 255, 373-379.	0.6	84
5	Ablation of hydroxyapatite by pulsed laser irradiation. Applied Surface Science, 1992, 54, 210-214.	3.1	78
6	Comparison of nanosecond laser ablation at 1064 and 308 nm wavelength. Applied Surface Science, 2003, 210, 262-273.	3.1	73
7	Full characterization of laser-accelerated ion beams using Faraday cup, silicon carbide, and single-crystal diamond detectors. Journal of Applied Physics, 2011, 109, .	1.1	68
8	Self-focusing effect in Au-target induced by high power pulsed laser at PALS. Laser and Particle Beams, 2008, 26, 379-387.	0.4	67
9	High performance SiC detectors for MeV ion beams generated by intense pulsed laser plasmas. Journal of Materials Research, 2013, 28, 87-93.	1.2	64
10	Graphene oxide as a radiation sensitive material for XPS dosimetry. Vacuum, 2020, 173, 109175.	1.6	64
11	Metallic etching by high power Nd:yttriumâ€“aluminumâ€“garnet pulsed laser irradiation. Review of Scientific Instruments, 2000, 71, 4330.	0.6	57
12	Angular distribution of ejected atoms from Nd:YAG laser irradiating metals. Review of Scientific Instruments, 2001, 72, 68-72.	0.6	57
13	Silicon carbide detector for laser-generated plasma radiation. Applied Surface Science, 2013, 272, 128-131.	3.1	55
14	Ion and neutral emission from pulsed laser irradiation of metals. Nuclear Instruments & Methods in Physics Research B, 2001, 184, 327-336.	0.6	51
15	Fluffy layers obtained by ion bombardment of frozen methane: Experiments and applications to Saturnian and Uranian satellites. Icarus, 1985, 63, 31-38.	1.1	50
16	Laser ablation of UHMWPE-polyethylene by 438 nm high energy pulsed laser. Applied Surface Science, 2004, 227, 164-174.	3.1	50
17	Coulomb-Boltzmann-Shifted distribution in laser-generated plasmas from $10^{10}$ up to $10^{19}$ W/cm <sup>2</sup> intensities. Radiation Effects and Defects in Solids, 2016, 171, 34-44.	0.4	50
18	Angular distribution of ions emitted from Nd:YAG laser-produced plasma. Review of Scientific Instruments, 2002, 73, 654-656.	0.6	49

#	ARTICLE	IF	CITATIONS
19	Generation of multiply charged ions at low and high laser-power densities. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 585-599.	0.9	48
20	Implantation of ions produced by the use of high power iodine laser. <i>Applied Surface Science</i> , 2003, 217, 319-331.	3.1	47
21	A study of the parameters of particles ejected from a laser plasma. <i>Laser and Particle Beams</i> , 2004, 22, 461-467.	0.4	44
22	Single crystal silicon carbide detector of emitted ions and soft x rays from power laser-generated plasmas. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	44
23	Self-supporting graphene oxide films preparation and characterization methods. <i>Vacuum</i> , 2019, 160, 1-11.	1.6	44
24	Thermally assisted hydroxyapatite obtained by pulsed-laser deposition on titanium substrates. <i>Thin Solid Films</i> , 1993, 227, 32-36.	0.8	41
25	Energy distribution of particles ejected by laser-generated aluminium plasma. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 252, 183-189.	0.6	41
26	Carbon-plasma produced in vacuum by 532nm 3ns laser pulses ablation. <i>Applied Surface Science</i> , 2006, 252, 6383-6389.	3.1	41
27	Thomson parabola spectrometry for gold laser-generated plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	41
28	Radiation effects of IR laser on graphene oxide irradiated in vacuum and in air. <i>Vacuum</i> , 2018, 153, 122-131.	1.6	41
29	Laser-generated bismuth nanoparticles for applications in imaging and radiotherapy. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 119, 62-70.	1.9	40
30	Self-focusing in processes of laser generation of highly-charged and high-energy heavy ions. <i>Laser and Particle Beams</i> , 2006, 24, 175-179.	0.4	37
31	Angular distributions of ions emitted from laser plasma produced at various irradiation angles and laser intensities. <i>Laser and Particle Beams</i> , 2008, 26, 555-565.	0.4	37
32	Polyethylene welding by pulsed visible laser irradiation. <i>Applied Surface Science</i> , 2011, 257, 2567-2575.	3.1	37
33	Characterization of laser-generated silicon plasma. <i>Applied Surface Science</i> , 2008, 254, 2090-2095.	3.1	36
34	Production of low energy, high intensity metal ion beams by means of a laser ion source. <i>Review of Scientific Instruments</i> , 2002, 73, 650-653.	0.6	34
35	Equivalent ion temperature in Ta plasma produced by high energy laser ablation. <i>Journal of Applied Physics</i> , 2006, 99, 083301.	1.1	34
36	Analysis of laser-generated plasma ionizing radiation by synthetic single crystal diamond detectors. <i>Applied Surface Science</i> , 2013, 272, 104-108.	3.1	34

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37	Charge-state and energy enhancement of laser-produced ions due to nonlinear processes in preformed plasma. <i>Applied Physics Letters</i> , 2005, 86, 081502.	1.5	33
38	The influence of an intense laser beam interaction with preformed plasma on the characteristics of emitted ion streams. <i>Laser and Particle Beams</i> , 2007, 25, 549-556.	0.4	33
39	XPS and XRF depth patina profiles of ancient silver coins. <i>Applied Surface Science</i> , 2013, 272, 82-87.	3.1	32
40	ELIMED, future hadrontherapy applications of laser-accelerated beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 730, 174-177.	0.7	32
41	Structural investigations on laser deposited hydroxyapatite films. <i>Thin Solid Films</i> , 1994, 237, 12-15.	0.8	31
42	The electron cyclotron resonance coupled to laser ion source for charge state enhancement experiment: Production of high intensity ion beams by means of a hybrid ion source. <i>Journal of Applied Physics</i> , 2004, 96, 2961-2968.	1.1	31
43	Characteristics of ion emission from plasma produced by high-energy short-wavelength (438 nm) laser radiation. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 1087-1093.	0.9	30
44	Investigations on pulsed laser ablation of Sn at 1064 nm wavelength. <i>Plasma Sources Science and Technology</i> , 2006, 15, 635-641.	1.3	30
45	Investigations on low temperature laser-generated plasmas. <i>Laser and Particle Beams</i> , 2008, 26, 265-271.	0.4	30
46	Effect of carbon nanotube amount on polyethylene welding process induced by laser source. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 439-445.	1.1	30
47	Band-like transport in high vacuum thermal reduced graphene oxide films. <i>Vacuum</i> , 2019, 165, 254-261.	1.6	30
48	Wetting modifications of uhmwpe surfaces induced by ion implantation. <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 731-741.	0.4	29
49	Method for the calculation of electrical field in laser-generated plasma for ion stream production. <i>Review of Scientific Instruments</i> , 2006, 77, 03B707.	0.6	29
50	Comparison of Pd plasmas produced at 532nm and 1064nm by a Nd:YAG laser ablation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 2285-2291.	0.6	29
51	Laser irradiations of advanced targets promoting absorption resonance for ion acceleration in TNSA regime. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 355, 221-226.	0.6	29
52	Ion energy increase in laser-generated plasma expanding through axial magnetic field trap. <i>Laser and Particle Beams</i> , 2007, 25, 453-464.	0.4	28
53	Pulsed laser treatments of polyethylene films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 3117-3121.	0.6	28
54	Protons and ion acceleration from thick targets at $10^{10}$ W/cm <sup>2</sup> laser pulse intensity. <i>Laser and Particle Beams</i> , 2011, 29, 29-37.	0.4	28

#	ARTICLE	IF	CITATIONS
55	Ion beam processing of polyvinylidene fluoride. Nuclear Instruments & Methods in Physics Research B, 1996, 117, 387-391.	0.6	27
56	Particle emission from tantalum plasma produced by 532nm laser pulse ablation. Journal of Applied Physics, 2006, 100, 093306.	1.1	27
57	Plasma laser characterization by electrostatic mass quadrupole analyzer. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 308-315.	0.6	27
58	Time-of-flight and UV spectroscopy characterization of laser-generated plasma. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 499-505.	0.6	27
59	Amino acid decomposition induced by keV ion irradiation. Nuclear Instruments & Methods in Physics Research B, 1990, 46, 361-363.	0.6	26
60	keV ion sputtering of hydroxyapatite. Applied Physics Letters, 1993, 62, 237-239.	1.5	26
61	Silver plasma by pulsed laser ablation. Plasma Sources Science and Technology, 2008, 17, 035019.	1.3	26
62	LAMQS analysis applied to ancient Egyptian bronze coins. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1657-1664.	0.6	26
63	Plasma temperature and ion current analysis of gold ablation at different laser power rates. Nuclear Instruments & Methods in Physics Research B, 2006, 247, 261-267.	0.6	25
64	Monte Carlo study of the dose enhancement effect of gold nanoparticles during X-ray therapies and evaluation of the anti-angiogenic effect on tumour capillary vessels. Journal of X-Ray Science and Technology, 2013, 21, 237-247.	0.7	25
65	Laser-produced Au nanoparticles as X-ray contrast agents for diagnostic imaging. Gold Bulletin, 2017, 50, 51-60.	1.1	25
66	Localized modification of graphene oxide properties by laser irradiation in vacuum. Vacuum, 2019, 165, 134-138.	1.6	25
67	Ion and photon emission from laser-generated titanium-plasma. Applied Surface Science, 2008, 254, 4007-4012.	3.1	24
68	Measurements of electron energy distribution in tantalum laser-generated plasma. Journal of Applied Physics, 2010, 107, .	1.1	24
69	Laser ablation parameters influencing gold nanoparticle synthesis in water. Radiation Effects and Defects in Solids, 2018, 173, 729-739.	0.4	24
70	Electronic properties of thin films of laser-ablated Al <sub>2</sub> O <sub>3</sub> . Applied Surface Science, 2009, 255, 4123-4128.	3.1	23
71	Al <sub>2</sub> O <sub>3</sub> plasma production during pulsed laser deposition. European Physical Journal D, 2009, 54, 467-472.	0.6	23
72	Employment of Carbon Nanomaterials for Welding Polyethylene Joints with a Nd:YAG Laser. International Journal of Polymer Analysis and Characterization, 2014, 19, 489-499.	0.9	23

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73	Gold Nanoparticles Enhancing Protontherapy Efficiency. Recent Patents on Nanotechnology, 2015, 9, 51-60.	0.7	23
74	Laser-plasma X-ray detection by using fast 4H-SiC interdigit and ion collector detectors. Journal of Instrumentation, 2015, 10, P07009-P07009.	0.5	23
75	Effects of the ion bombardment on the structure and composition of GO and rGO foils. Materials Chemistry and Physics, 2019, 232, 272-277.	2.0	23
76	Treatment Techniques on Aluminum to Modify the Surface Wetting Properties. Acta Physica Polonica A, 2015, 128, 48-53.	0.2	23
77	Light Scattering from Ion-Irradiated Frozen Gases. Europhysics Letters, 1988, 7, 431-434.	0.7	22
78	Expansion of tungsten ions emitted from laser-produced plasma in axial magnetic and electric fields. Laser and Particle Beams, 2002, 20, 113-118.	0.4	22
79	Experimental studies of generation of ~100 MeV Au-ions from the laser-produced plasma. Laser and Particle Beams, 2009, 27, 137-147.	0.4	22
80	Ion energy enhancement from TNSA plasmas obtained from advanced targets. Laser and Particle Beams, 2014, 32, 383-389.	0.4	22
81	Ion acceleration from intense laser-generated plasma: methods, diagnostics and possible applications. Nukleonika, 2015, 60, 207-212.	0.3	22
82	Effects of the Laser Irradiation on Graphene Oxide Foils in Vacuum and Air. Physics of the Solid State, 2019, 61, 1327-1331.	0.2	22
83	Investigations on graphene oxide for ion beam dosimetry applications. Vacuum, 2020, 178, 109451.	1.6	22
84	Protons accelerated in the target normal sheath acceleration regime by a femtosecond laser. Physical Review Accelerators and Beams, 2019, 22, .	0.6	22
85	Enhancement of ion current from the TRIPS source by means of different electron donors. Review of Scientific Instruments, 2006, 77, 03B511.	0.6	21
86	Analysis of processes participating during intense iodine-laser-beam interactions with laser-produced plasmas. Radiation Effects and Defects in Solids, 2010, 165, 463-471.	0.4	21
87	Ion Acceleration and D-D Nuclear Fusion in Laser-Generated Plasma from Advanced Deuterated Polyethylene. Molecules, 2014, 19, 17052-17065.	1.7	21
88	Al <sup>3+</sup> complex formation in ion implanted Czochralski and floating zone Si substrates. Applied Physics Letters, 1993, 62, 393-395.	1.5	20
89	Nickel plasma produced by 532-nm and 1064-nm pulsed laser ablation. Plasma Physics Reports, 2008, 34, 547-554.	0.3	20
90	Effect of metallic nanoparticles in thin foils for laser ion acceleration. Physica Scripta, 2015, 90, 015603.	1.2	20

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91	Structural and spectroscopic investigations on graphene oxide foils irradiated by ion beams for dosimetry application. <i>Vacuum</i> , 2021, 188, 110185.	1.6	20
92	Ion Implantation on Ultra High Molecular Weight Polyethylene (Uhmwpe) for Medical Prosthesis. <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 621-633.	0.4	19
93	Mechanical performance of electron-beam-irradiated UHMWPE in vacuum and in air. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 55-64.	1.6	19
94	ELIMED, MEDical and multidisciplinary applications at ELI-Beamlines. <i>Journal of Physics: Conference Series</i> , 2014, 508, 012010.	0.3	19
95	Aluminium plasma production at high laser intensity. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	19
96	Measurements on Five Characterizing Properties of Graphene Oxide and Reduced Graphene Oxide Foils. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100628.	0.8	19
97	Charge-energy distribution of Ta ions from plasmas produced by 1ï‰ and 3ï‰ frequencies of a high-power iodine laser. <i>Review of Scientific Instruments</i> , 2004, 75, 1588-1591.	0.6	18
98	Review of laser ion sources developments in Prague and production ofqover 50+ ions at Prague Asterix Laser System (invited). <i>Review of Scientific Instruments</i> , 2004, 75, 1546-1550.	0.6	18
99	Factors influencing parameters of laser ion sources. <i>Laser and Particle Beams</i> , 2007, 25, 199-205.	0.4	18
100	Microfabrication of Silicon Hydrogenated Thin Targets for Multi-MeV Laser-Driven Proton Acceleration. <i>Applied Physics Express</i> , 2011, 4, 126401.	1.1	18
101	Radiotherapy Improvements by Using Au Nanoparticles. <i>Recent Patents on Nanotechnology</i> , 2015, 9, 114-125.	0.7	18
102	Mev helium ion beam etching of polytetrafluoroethylene. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1988, 32, 142-144.	0.6	17
103	Fractional ionization in plasmas produced by pulsed laser ablation. <i>Radiation Effects and Defects in Solids</i> , 2002, 157, 347-356.	0.4	17
104	Diamond detectors for characterization of laser-generated plasma. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 463-470.	0.4	17
105	Modification in polyethylene-iron oxide joints induced by laser irradiation. <i>Applied Surface Science</i> , 2013, 272, 99-103.	3.1	17
106	Micro-patterns fabrication using focused proton beam lithography. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 371, 344-349.	0.6	17
107	Highly charged heavy ion generation by pulsed laser irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 209, 345-350.	0.6	16
108	Correlation of highly charged ion and X-ray emissions from the laser-produced plasma in the presence of non-linear phenomena. <i>Radiation Effects and Defects in Solids</i> , 2005, 160, 557-566.	0.4	16

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109	Measurements of the highest acceleration gradient for ions produced with a long laser pulse. Review of Scientific Instruments, 2010, 81, 02A506.	0.6	16
110	SiC interdigit detectors for post-accelerated ions generated by laser plasma. Vacuum, 2016, 131, 170-175.	1.6	16
111	TNSA and ponderomotive plasma production in enriched carbon polyethylene foils. Physics of Plasmas, 2017, 24, 043112.	0.7	16
112	Graphene oxide/Cu junction as relative humidity sensor. Journal of Materials Science: Materials in Electronics, 2020, 31, 11001-11009.	1.1	16
113	Threshold dependence in the electronic sputtering of condensed sulfur. Physical Review B, 1988, 38, 1516-1519.	1.1	15
114	Gold ions produced by 1064 nm pulsed laser irradiation. Nuclear Instruments & Methods in Physics Research B, 2001, 183, 271-278.	0.6	15
115	Radiation damage in polyvinyltoluene (PVT). Radiation Physics and Chemistry, 2002, 63, 89-92.	1.4	15
116	Application of laser ion source for ion implantation technology. Vacuum, 2005, 78, 435-438.	1.6	15
117	Partial currents of ion species in an expanding laser-created plasma. Vacuum, 2008, 83, 180-184.	1.6	15
118	Comparison of Surface Modifications Induced by Ion Implantation in UHMWPE. International Journal of Polymer Analysis and Characterization, 2010, 15, 73-86.	0.9	15
119	TNSA ion acceleration at $10^{16}$ W/cm <sup>2</sup> sub-nanosecond laser intensity. Journal of Physics: Conference Series, 2014, 508, 012002.	0.3	15
120	Advanced polymer targets for TNSA regime producing 6 MeV protons at $10^{16}$ W/cm <sup>2</sup> laser intensity. Physics of Plasmas, 2017, 24, .	0.7	15
121	SiC Detector for Sub-MeV Alpha Spectrometry. Journal of Electronic Materials, 2017, 46, 4242-4249.	1.0	15
122	Radiation effects of keV-MeV ion irradiated PVDF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 382, 361-364.	0.7	14
123	Carbon nanocrystals produced by pulsed laser ablation of carbon. Radiation Effects and Defects in Solids, 2005, 160, 655-662.	0.4	14
124	Ion implantation induced by Cu ablation at high laser fluence. Applied Surface Science, 2006, 252, 8533-8538.	3.1	14
125	Multipurpose superconducting electron cyclotron resonance ion source, the European roadmap to third-generation electron cyclotron resonance ion sources. Review of Scientific Instruments, 2006, 77, 03A303.	0.6	14
126	Spectroscopic measurements in Fe-plasma produced by pulsed laser ablation. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3968-3974.	0.6	14



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127	Studies of cratersâ€™ dimension for long-pulse laser ablation of metal targets at various experimental conditions. Applied Surface Science, 2008, 254, 2797-2803.	3.1	14
128	Silicon carbide detectors for diagnostics of ion emission from laser plasmas. Physica Scripta, 2014, T161, 014021.	1.2	14
129	Near monochromatic 20 MeV proton acceleration using fs laser irradiating Au foils in target normal sheath acceleration regime. Physics of Plasmas, 2016, 23, 043102.	0.7	14
130	Calibration of SiC Detectors for Nitrogen and Neon Plasma Emission Using Gas-Puff Target Sources. IEEE Transactions on Electron Devices, 2017, 64, 1120-1126.	1.6	14
131	Effect of the filler amount on the optical absorption properties and the surface features of polymeric joints based on biomedical UHMWPE welded by a Nd:YAG laser. Journal of Thermoplastic Composite Materials, 2017, 30, 1675-1692.	2.6	14
132	Polydimethylsiloxane containing gold nanoparticles for optical applications. Journal of Instrumentation, 2020, 15, C03044-C03044.	0.5	14
133	Temperature sensor based on IR-laser reduced Graphene Oxide. Journal of Instrumentation, 2020, 15, C04006-C04006.	0.5	14
134	From GO to rGO: An analysis of the progressive rippling induced by energetic ion irradiation. Applied Surface Science, 2022, 586, 152789.	3.1	14
135	Implants of aluminum in the 50â€“120 MeV energy range into silicon. Nuclear Instruments & Methods in Physics Research B, 1993, 73, 9-13.	0.6	13
136	Non-equilibrium plasma production by pulsed laser ablation of gold. Radiation Effects and Defects in Solids, 2002, 157, 333-346.	0.4	13
137	The Effect of Pre-plasma and Self-focusing on Characteristics of Laser Produced Ions. European Physical Journal D, 2005, 55, 691-699.	0.4	13
138	Temperature measurements in plasmas produced by high-power lasers interacting with solid targets. Review of Scientific Instruments, 2006, 77, 03B708.	0.6	13
139	Ge and Ti post-ion acceleration from laser ion source. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2808-2814.	0.6	13
140	ELIMED: a new hadron therapy concept based on laser driven ion beams. Proceedings of SPIE, 2013, . .	0.8	13
141	Ancient bronze coins from Mediterranean basin: LAMQS potentiality for lead isotopes comparative analysis with former mineral. Applied Surface Science, 2016, 387, 529-538.	3.1	13
142	Laser effects on graphene oxide irradiated in high vacuum. Radiation Effects and Defects in Solids, 2018, 173, 73-84.	0.4	13
143	Gold nanoparticles produced by laser ablation in water and in graphene oxide suspension. Philosophical Magazine, 2018, 98, 2205-2220.	0.7	13
144	Tailoring the oxygen content of graphene oxide by IR laser irradiation. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	13

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145	Laser Annealing of P and Al Implanted 4H-SiC Epitaxial Layers. <i>Materials</i> , 2019, 12, 3362.	1.3	13
146	Characterization of graphene oxide film by implantation of low energy copper ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 460, 169-174.	0.6	13
147	Micro ion beam used to optimize the quality of microstructures based on polydimethylsiloxane. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 459, 137-142.	0.6	13
148	Thin organic films produced by ion implantation. <i>Applied Physics Letters</i> , 1984, 44, 761-763.	1.5	12
149	Sputtering of sulfur: Experiments and consequences for Io. <i>Icarus</i> , 1987, 70, 379-382.	1.1	12
150	Radiation effects induced by MeV electron beams irradiating dense polyethylene (UHMWPE). <i>Radiation Effects and Defects in Solids</i> , 2004, 159, 259-271.	0.4	12
151	Polymer processing by a low energy ion accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2490-2493.	0.6	12
152	Plasma parameters measurements by means of Langmuir probe. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 471-478.	0.4	12
153	Evidence of plasmon resonances of nickel particles deposited by pulsed laser ablation. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 513-518.	0.4	12
154	The effect of high-Z dopant on laser-driven acceleration of a thin plastic target. <i>Applied Physics Letters</i> , 2008, 92, 211502.	1.5	12
155	Ti post-ion acceleration from a laser ion source. <i>Radiation Effects and Defects in Solids</i> , 2010, 165, 509-520.	0.4	12
156	High current, high energy proton beams accelerated by a sub-nanosecond laser. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 653, 159-163.	0.7	12
157	Proton emission from a laser ion source. <i>Review of Scientific Instruments</i> , 2012, 83, 02B310.	0.6	12
158	Silver/oxygen depth profile in coins by using laser ablation, mass quadrupole spectrometer and X-rays fluorescence. <i>Applied Surface Science</i> , 2013, 272, 25-29.	3.1	12
159	Gold Nanoparticles by Laser Ablation for X-Ray Imaging and Protontherapy Improvements. <i>Recent Patents on Nanotechnology</i> , 2018, 12, 59-69.	0.7	12
160	Localized deoxygenation of graphene oxide foil by ion microbeam writing. <i>Vacuum</i> , 2019, 163, 10-14.	1.6	12
161	Ion acceleration by fs laser in target-normal-sheath-acceleration regime and comparison of time-of-flight spectra with particle-in-cell simulations. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	0.6	12
162	Kev ion beam irradiation of polyvinylidene fluoride (PVDF). <i>Radiation Effects and Defects in Solids</i> , 1995, 133, 247-257.	0.4	11

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163	Measurements of energetic ions emitted from laser produced plasma by means of solid state nuclear track detectors of the PM-355 type. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 1417-1422.	0.9	11
164	Generation of intense streams of metallic ions with a charge state up to 10+ in a laser ion source. <i>Review of Scientific Instruments</i> , 2004, 75, 1575-1578.	0.6	11
165	Generation of extreme high laser intensities in plasma. <i>European Physical Journal D</i> , 2004, 54, C370-C377.	0.4	11
166	Pulsed laser ablation of gold at 1064 nm and 532 nm. <i>European Physical Journal D</i> , 2004, 54, C421-C430.	0.4	11
167	Energy distributions of particles ejected from laser-generated pulsed plasmas. <i>European Physical Journal D</i> , 2006, 56, B449-B456.	0.4	11
168	Characteristic modification of UHMWPE by laser-assisted ion implantation. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 447-451.	0.4	11
169	Monocrystalline diamond detector for ionizing radiation emitted by high temperature laser-generated plasma. <i>Journal of Applied Physics</i> , 2008, 103, 083106.	1.1	11
170	Experimental studies of emission of highly charged Au-ions and of X-rays from the laser-produced plasma at high laser intensities. <i>European Physical Journal D</i> , 2009, 54, 487-492.	0.6	11
171	Laser and electron beams physical analyses applied to the comparison between two silver tetradrachm greek coins. <i>European Physical Journal D</i> , 2009, 54, 225-232.	0.6	11
172	Proton emission from thin hydrogenated targets irradiated by laser pulses at 1016 W/cm <sup>2</sup> . <i>Review of Scientific Instruments</i> , 2012, 83, 02B315.	0.6	11
173	Improved generation of ion fluxes by a long laser pulse using laser-induced cavity pressure acceleration. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	11
174	Graphite oxide based targets applied in laser matter interaction. <i>EPJ Web of Conferences</i> , 2018, 167, 02004.	0.1	11
175	Static and dynamic characterization of biomedical polyethylene laser welding using biocompatible nano-particles. <i>EPJ Web of Conferences</i> , 2018, 167, 05009.	0.1	11
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