

Lorenzo Torrisi

List of Publications by Year in descending order

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466
papers

5,718
citations

117453

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48
g-index

467
all docs

467
docs citations

467
times ranked

2683
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene oxide modifications induced by excimer laser irradiations. Surface and Interface Analysis, 2022, 54, 567-575.	0.8	1
2	Incidence of Phage Capsid Organization on the Resistance to High Energy Proton Beams. Applied Sciences (Switzerland), 2022, 12, 988.	1.3	2
3	Mass Quadrupole Spectrometry Coupled to Laser Ablation for Cultural Heritage Applications. , 2022, , 445-464.		1
4	Measurements on Five Characterizing Properties of Graphene Oxide and Reduced Graphene Oxide Foils. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100628.	0.8	19
5	Laser ablation for material processing. Radiation Effects and Defects in Solids, 2022, 177, 71-84.	0.4	2
6	Pulsed laser cleaning (PLC) applied to samples in cultural heritage field. Radiation Effects and Defects in Solids, 2022, 177, 27-39.	0.4	2
7	From GO to rGO: An analysis of the progressive rippling induced by energetic ion irradiation. Applied Surface Science, 2022, 586, 152789.	3.1	14
8	Argon diffusion in graphene oxide and reduced graphene oxide foils. Vacuum, 2022, 200, 110993.	1.6	4
9	Nanoparticles embedded in a sponge of polydimethylsiloxane by laser ablation in liquid. EPJ Web of Conferences, 2022, 261, 02005.	0.1	0
10	Proton beam dosimetry based on the graphene oxide reduction and Raman spectroscopy. Vacuum, 2022, 201, 111113.	1.6	5
11	SiC and Ion collectors as diagnostics of laser-generated plasma at intensity of 10^{10} W/cm ² . Journal of Instrumentation, 2022, 17, P04016.	0.5	1
12	Enhancement of the polydimethylsiloxane (PDMS) luminescence to develop a proton scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 167012.	0.7	0
13	CO ₂ diffusion in graphene oxide and reduced graphene oxide foils and its comparison with N ₂ and Ar. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	1
14	Linear Energy Transfer (LET) dependence of graphene oxide dosimeter for different ionizing radiations. Vacuum, 2022, 203, 111240.	1.6	1
15	Advantages to use graphene oxide thin targets in forward ion acceleration using <i>fs</i> lasers. Contributions To Plasma Physics, 2022, 62, .	0.5	2
16	Physical aspects of gold nanoparticles as cancer killer therapy. Indian Journal of Physics, 2021, 95, 225-234.	0.9	7
17	Ni, Ti, and NiTi laser ablation in vacuum and in water to deposit thin films or to generate nanoparticles in solution. Contributions To Plasma Physics, 2021, 61, .	0.5	5
18	Nuclear reactions for protontherapy intensification. Nuclear Instruments & Methods in Physics Research B, 2021, 486, 28-36.	0.6	3

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19	Cold electrons acceleration in TNSA laser-generated plasma using a low-contrast fs laser. Contributions To Plasma Physics, 2021, 61, e202000097.	0.5	2
20	2.5-MeV neutron source controlled by high-intensity pulsed laser generating plasma. Contributions To Plasma Physics, 2021, 61, e202000213.	0.5	0
21	Carbon-based innovative materials for nuclear physics applications (CIMA), INFN project. Radiation Effects and Defects in Solids, 2021, 176, 100-118.	0.4	7
22	IR laser ablation of high boiling elements (C, Mo, Ta, W and Re). Radiation Effects and Defects in Solids, 2021, 176, 2-16.	0.4	1
23	Role of Phage Capsid in the Resistance to UV-C Radiations. International Journal of Molecular Sciences, 2021, 22, 3408.	1.8	8
24	The characterisation of polydimethylsiloxane containing gold nanoparticles as a function of curing time. Surface and Interface Analysis, 2021, 53, 618-626.	0.8	3
25	UV and soft x-ray emission from gaseous and solid targets employing SiC detectors. Plasma Science and Technology, 2021, 23, 055508.	0.7	3
26	Structural and spectroscopic investigations on graphene oxide foils irradiated by ion beams for dosimetry application. Vacuum, 2021, 188, 110185.	1.6	20
27	Six MeV proton acceleration from plasma generated by high-intensity laser using advanced thin polyethylene targets. Contributions To Plasma Physics, 2021, 61, e202100024.	0.5	1
28	SiC, Si and diamond detectors for comparison of laser-generated plasma in TNSA regime. Journal of Instrumentation, 2021, 16, P08026.	0.5	1
29	Diffusion of nitrogen gas through polyethylene based films. Polymer Crystallization, 2021, 4, e10207.	0.5	3
30	Aluminum ion plasma monitored by SiC detectors from low to high laser intensity and from ns up to fs pulse duration. Optics Communications, 2021, 496, 127129.	1.0	3
31	Structural phase modifications induced by energetic ion beams in graphene oxide. Vacuum, 2021, 193, 110513.	1.6	7
32	Nitrogen diffusion in graphene oxide and reduced graphene oxide foils. Vacuum, 2021, 194, 110632.	1.6	10
33	Eight MeV per charge state from 300 ps laser ion acceleration by using micrometric foils. Contributions To Plasma Physics, 2021, 61, e202000185.	0.5	3
34	Synthesis of Porous Polydimethylsiloxane Gold Nanoparticles Composites by a Single Step Laser Ablation Process. International Journal of Molecular Sciences, 2021, 22, 12155.	1.8	6
35	M13 Phages Uptake of Gold Nanoparticles for Radio- and Thermal-Therapy and Contrast Imaging Improvement. Applied Sciences (Switzerland), 2021, 11, 11391.	1.3	1
36	Pulsed Laser Deposition and Laser-Induced Backward Transfer to Modify Polydimethylsiloxane. Coatings, 2021, 11, 1521.	1.2	4

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37	Protons and carbon ions acceleration in the target normal sheath acceleration regime using low-contrast fs laser and metal-graphene targets. Contributions To Plasma Physics, 2020, 60, e201900076.	0.5	8
38	Magnetic field to focalize and accelerate ions produced by ns laser-generated plasmas. Japanese Journal of Applied Physics, 2020, 59, SEEG01.	0.8	1
39	Polydimethylsiloxane-graphene oxide composite improving performance by ion beam irradiation. Surface and Interface Analysis, 2020, 52, 1156-1162.	0.8	8
40	Laser welding of polymeric nanocomposites filled with silver nanoparticles produced by laser ablation. Journal of Instrumentation, 2020, 15, C02037-C02037.	0.5	5
41	Reduction of graphene oxide foils by IR laser irradiation in air. Journal of Instrumentation, 2020, 15, C03006-C03006.	0.5	6
42	Laser and ion beams graphene oxide reduction for microelectronic devices. Radiation Effects and Defects in Solids, 2020, 175, 226-240.	0.4	4
43	Ion, electron and laser beams for Cultural Heritage investigations by Czech-Italian collaboration. Journal of Instrumentation, 2020, 15, C04050-C04050.	0.5	0
44	Laser-generated Cu plasma in vacuum and in nitrogen gas. Vacuum, 2020, 178, 109422.	1.6	5
45	Polydimethylsiloxane containing gold nanoparticles for optical applications. Journal of Instrumentation, 2020, 15, C03044-C03044.	0.5	14
46	Characterization of Si and SiC detectors for laser-generated plasma monitoring in short wavelength range. Journal of Instrumentation, 2020, 15, C05027-C05027.	0.5	2
47	Target normal sheath ion acceleration by fs laser irradiating metal/reduced graphene oxide targets. Journal of Instrumentation, 2020, 15, C03056-C03056.	0.5	1
48	Graphene oxide/Cu junction as relative humidity sensor. Journal of Materials Science: Materials in Electronics, 2020, 31, 11001-11009.	1.1	16
49	Dependence of high-energy proton acceleration in TNSA regime by fs laser on the laser pulse shape. Journal of Instrumentation, 2020, 15, C06030-C06030.	0.5	0
50	Small-field dosimetry based on reduced graphene oxide under MeV helium beam irradiation. Radiation Effects and Defects in Solids, 2020, 175, 120-135.	0.4	8
51	Laser-generated ns plasma pulses characterized using SiC Schottky diode. Contributions To Plasma Physics, 2020, 60, e202000012.	0.5	3
52	Biocompatible nanoparticles production by pulsed laser ablation in liquids. Journal of Instrumentation, 2020, 15, C03053-C03053.	0.5	8
53	Gold nanoparticles for physics and bio-medicine applications. Radiation Effects and Defects in Solids, 2020, 175, 68-83.	0.4	5
54	Physical study of proton therapy at CANAM laboratory on medulloblastoma cell lines DAOY. Radiation Effects and Defects in Solids, 2020, 175, 863-878.	0.4	4

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55	Hybrid graphene-based material promising target in laser matter interaction. Journal of Instrumentation, 2020, 15, C01021-C01021.	0.5	1
56	Graphene oxide as a radiation sensitive material for XPS dosimetry. Vacuum, 2020, 173, 109175.	1.6	64
57	Ion acceleration from aluminium plasma generated by a femtosecond laser in different conditions. Contributions To Plasma Physics, 2020, 60, e201900187.	0.5	3
58	IR ns pulsed laser irradiation of Polydimethylsiloxane in vacuum. Vacuum, 2020, 177, 109361.	1.6	9
59	Target normal sheath acceleration by fs laser and advanced carbon foils with gold films and nanoparticles. Physics of Plasmas, 2020, 27, 043107.	0.7	6
60	Temperature sensor based on IR-laser reduced Graphene Oxide. Journal of Instrumentation, 2020, 15, C04006-C04006.	0.5	14
61	Investigations on graphene oxide for ion beam dosimetry applications. Vacuum, 2020, 178, 109451.	1.6	22
62	Ion acceleration by fs laser in target-normal-sheath-acceleration regime and comparison of time-of-flight spectra with particle-in-cell simulations. Physical Review Accelerators and Beams, 2020, 23, .	0.6	12
63	Selective modification of electrical insulator material by ion micro beam for the fabrication of circuit elements. Radiation Effects and Defects in Solids, 2020, 175, 307-317.	0.4	4
64	Study of gold nanoparticles for mammography diagnostic and radiotherapy improvements. Reports of Practical Oncology and Radiotherapy, 2019, 24, 450-457.	0.3	10
65	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
66	RBS, PIXE, Ion-Microbeam and SR-FTIR Analyses of Pottery Fragments from Azerbaijan. Heritage, 2019, 2, 1852-1873.	0.9	10
67	Characterization of reduced Graphene oxide films used as stripper foils in a 3.0-Mv Tandetron. Radiation Physics and Chemistry, 2019, 165, 108397.	1.4	6
68	Tantalum ion acceleration in laser-generated plasma and dependence on the pulse duration. Contributions To Plasma Physics, 2019, 59, e201900043.	0.5	4
69	Laser Annealing of P and Al Implanted 4H-SiC Epitaxial Layers. Materials, 2019, 12, 3362.	1.3	13
70	Localized deoxygenation of graphene oxide foil by ion microbeam writing. Vacuum, 2019, 163, 10-14.	1.6	12
71	Band-like transport in high vacuum thermal reduced graphene oxide films. Vacuum, 2019, 165, 254-261.	1.6	30
72	Investigation of the effect of plasma waves excitation on target normal sheath ion acceleration using fs laser-irradiating hydrogenated structures. Contributions To Plasma Physics, 2019, 59, e201900029.	0.5	5

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73	Effects of the ion bombardment on the structure and composition of GO and rGO foils. <i>Materials Chemistry and Physics</i> , 2019, 232, 272-277.	2.0	23
74	Characterization of graphene oxide film by implantation of low energy copper ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 460, 169-174.	0.6	13
75	Laser ablation of boron nitride in vacuum and in water. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 76-91.	0.4	4
76	Localized modification of graphene oxide properties by laser irradiation in vacuum. <i>Vacuum</i> , 2019, 165, 134-138.	1.6	25
77	Near- MeV protons from target-normal-sheath acceleration femtosecond laser irradiating advanced targets. <i>Contributions To Plasma Physics</i> , 2019, 59, e201800127.	0.5	6
78	15th Workshop on European Collaboration in Higher Education on Radiological and Nuclear Engineering and Radiation Protection. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 939-940.	0.4	0
79	Study of gold nanoparticle transport by M13 phages towards disease tissues as targeting procedure for radiotherapy applications. <i>Gold Bulletin</i> , 2019, 52, 135-144.	1.1	10
80	Micro ion beam used to optimize the quality of microstructures based on polydimethylsiloxane. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 459, 137-142.	0.6	13
81	Reduced graphene oxide foils for ion stripping applications. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 973-984.	0.4	4
82	Particle-in-cell simulation for experimental ion acceleration by fs laser-generated plasma. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 985-997.	0.4	3
83	Gafchromic HD-V2 investigations using MeV ion beams in vacuum. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 1063-1075.	0.4	9
84	Self-supporting graphene oxide films preparation and characterization methods. <i>Vacuum</i> , 2019, 160, 1-11.	1.6	44
85	SiC detectors for evaluation of laser-plasma dynamics employing gas-puff targets. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 922, 250-256.	0.7	4
86	Protons accelerated in the target normal sheath acceleration regime by a femtosecond laser. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	22
87	Compact Thomson parabola spectrometer for fast diagnostics of different intensity laser-generated plasmas. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	3
88	Monitoring of the plasma generated by a gas-puff target source. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	5
89	Silicon carbide detectors for diagnostics of laser-produced plasmas. , 2019, , .		3
90	Radiation effects of IR laser on graphene oxide irradiated in vacuum and in air. <i>Vacuum</i> , 2018, 153, 122-131.	1.6	41

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91	Laser effects on graphene oxide irradiated in high vacuum. Radiation Effects and Defects in Solids, 2018, 173, 73-84.	0.4	13
92	4H-SiC Detector in High Photons and Ions Irradiation Regime. IEEE Transactions on Electron Devices, 2018, 65, 599-604.	1.6	5
93	Laser-generated bismuth nanoparticles for applications in imaging and radiotherapy. Journal of Physics and Chemistry of Solids, 2018, 119, 62-70.	1.9	40
94	Large-scale studies of ion acceleration in laser-generated plasma at intensities from 10^{10} W/cm ² to 10^{19} W/cm ² . Optics and Laser Technology, 2018, 99, 7-14.	2.2	9
95	Laser contrast and other key parameters enhancing the laser conversion efficiency in ion acceleration regime. EPJ Web of Conferences, 2018, 167, 02002.	0.1	4
96	Ion energy distributions from laser-generated plasmas at two different intensities. EPJ Web of Conferences, 2018, 167, 02003.	0.1	1
97	Physical investigations on the radiation damage of graphene oxide by IR pulsed laser. EPJ Web of Conferences, 2018, 167, 05011.	0.1	7
98	Ion-beam lithography: A promising technique for the patterning of graphene oxide foil. AIP Conference Proceedings, 2018, , .	0.3	2
99	Progresses towards laser-driven hadron cancer radiotherapy. Radiation Effects and Defects in Solids, 2018, 173, 719-728.	0.4	0
100	Laser ablation parameters influencing gold nanoparticle synthesis in water. Radiation Effects and Defects in Solids, 2018, 173, 729-739.	0.4	24
101	In-situ soft X-ray effects on graphene oxide films. Radiation Effects and Defects in Solids, 2018, 173, 740-750.	0.4	10
102	Laser-Generated Au Nanoparticles for Bio-Medical Applications. Irbm, 2018, 39, 307-312.	3.7	9
103	Graphite oxide based targets applied in laser matter interaction. EPJ Web of Conferences, 2018, 167, 02004.	0.1	11
104	Characterization of X-ray emission from laser generated plasma. EPJ Web of Conferences, 2018, 167, 03004.	0.1	4
105	Effects induced by high and low intensity laser plasma on SiC Schottky detectors. EPJ Web of Conferences, 2018, 167, 03005.	0.1	2
106	Wetting ability of human blood in the presence of gold nanoparticles. Gold Bulletin, 2018, 51, 111-121.	1.1	2
107	Modification induced by laser irradiation on physical features of plastics materials filled with nanoparticles. EPJ Web of Conferences, 2018, 167, 05008.	0.1	5
108	Reversibility of surface damage induced in SiC detectors by low intensity laser plasma. Materials Science in Semiconductor Processing, 2018, 86, 36-42.	1.9	2

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109	SiC detector for high helium energy spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 903, 309-316.	0.7	6
110	Gold nanoparticles produced by laser ablation in water and in graphene oxide suspension. Philosophical Magazine, 2018, 98, 2205-2220.	0.7	13
111	Magnetic and electric deflector spectrometers for ion emission analysis from laser generated plasma. EPJ Web of Conferences, 2018, 167, 03011.	0.1	2
112	Tailoring the oxygen content of graphene oxide by IR laser irradiation. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	13
113	Gold Nanoparticles by Laser Ablation for X-Ray Imaging and Protontherapy Improvements. Recent Patents on Nanotechnology, 2018, 12, 59-69.	0.7	12
114	Ion energy distribution from laser-generated plasma at intensities of $5 \times 10^9 \text{ W/cm}^2$. Surface and Coatings Technology, 2018, 355, 111-115.	2.2	2
115	Nanoparticles generated by laser in liquids as contrast medium and radiotherapy intensifiers. EPJ Web of Conferences, 2018, 167, 04007.	0.1	4
116	Static and dynamic characterization of biomedical polyethylene laser welding using biocompatible nano-particles. EPJ Web of Conferences, 2018, 167, 05009.	0.1	11
117	Laser-produced Au nanoparticles as X-ray contrast agents for diagnostic imaging. Gold Bulletin, 2017, 50, 51-60.	1.1	25
118	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
119	Advanced polymer targets for TNSA regime producing 6 MeV protons at 10^{16} W/cm^2 laser intensity. Physics of Plasmas, 2017, 24, .	0.7	15
120	Wetting ability of biological liquids in presence of metallic nanoparticles. Journal of Materials Science: Materials in Medicine, 2017, 28, 63.	1.7	10
121	Magnetic focusing of emitted ions from laser-generated plasma: enhancement of yield and energy. Laser and Particle Beams, 2017, 35, 202-209.	0.4	6
122	TNSA and ponderomotive plasma production in enriched carbon polyethylene foils. Physics of Plasmas, 2017, 24, 043112.	0.7	16
123	Laser ion implantation of Ge in SiO ₂ using a post-ion acceleration system. Laser and Particle Beams, 2017, 35, 72-80.	0.4	8
124	Evaluation of the radiotherapy and proton therapy improvements using gold nanoparticles. Gold Bulletin, 2017, 50, 299-311.	1.1	8
125	Triple nuclear reactions (d, n) in laser-generated plasma from deuterated targets. Physics of Plasmas, 2017, 24, .	0.7	3
126	Monocrystalline Diamond for Ions Detection at Low and High Fluxes. IEEE Transactions on Electron Devices, 2017, 64, 3384-3391.	1.6	2

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127	SiC Detector for Sub-MeV Alpha Spectrometry. Journal of Electronic Materials, 2017, 46, 4242-4249.	1.0	15
128	Advantages and Limits of 4H-SiC Detectors for High- and Low-Flux Radiations. Journal of Electronic Materials, 2017, 46, 6403-6410.	1.0	10
129	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
130	Plasma characterization of the gas-puff target source dedicated for soft X-ray microscopy using SiC detectors. Nukleonika, 2016, 61, 139-143.	0.3	8
131	Multi-energy ion implantation from high-intensity laser. Nukleonika, 2016, 61, 109-113.	0.3	6
132	SiC detectors to monitor ionizing radiations emitted from nuclear events and plasmas. Radiation Effects and Defects in Solids, 2016, 171, 695-704.	0.4	7
133	Electron emission from laser irradiating target normal sheath acceleration (TNSA). Radiation Effects and Defects in Solids, 2016, 171, 754-765.	0.4	3
134	Silicon Carbide for Realization of "Telescope" Ion Detectors. IEEE Transactions on Electron Devices, 2016, 63, 4445-4451.	1.6	10
135	SiC detector damage and characterization for high intensity laser-plasma diagnostics. Journal of Instrumentation, 2016, 11, P05009-P05009.	0.5	7
136	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
137	Acceleration of protons in plasma produced from a thin plastic or aluminum target by a femtosecond laser. Journal of Instrumentation, 2016, 11, C05017-C05017.	0.5	6
138	Laser-generated plasma by carbon nanoparticles embedded into polyethylene. Nuclear Instruments & Methods in Physics Research B, 2016, 375, 93-99.	0.6	6
139	Structural investigation and laser plasma diagnostics of borate glasses containing silver nanoparticles. Journal of Instrumentation, 2016, 11, C05005-C05005.	0.5	1
140	Nanostructured targets for TNSA laser ion acceleration. Nukleonika, 2016, 61, 103-108.	0.3	8
141	SiC detector characterization for radiation emitted by laser-generated plasmas. Journal of Instrumentation, 2016, 11, C05008-C05008.	0.5	6
142	SiC detectors for radiation sources characterization and fast plasma diagnostic. Journal of Instrumentation, 2016, 11, C09005-C09005.	0.5	2
143	Ion Micro Beam, promising methods for interdisciplinary research. Journal of Instrumentation, 2016, 11, C05001-C05001.	0.5	5
144	SiC interdigit detectors for post-accelerated ions generated by laser plasma. Vacuum, 2016, 131, 170-175.	1.6	16

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145	Enhancement of resonant absorption through excitation of SPR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 117-120.	0.7	0
146	Coulomb-Boltzmann-Shifted distribution in laser-generated plasmas from 10^{10} up to 10^{19} W/cm ² intensities. Radiation Effects and Defects in Solids, 2016, 171, 34-44.	0.4	50
147	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
148	Elastic recoil detection analysis (ERDA) in hydrogenated samples for TNSA laser irradiation. Surface and Interface Analysis, 2016, 48, 10-16.	0.8	7
149	An unconventional ion implantation method for producing Au and Si nanostructures using intense laser-generated plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 025011.	0.9	7
150	Micro-patterns fabrication using focused proton beam lithography. Nuclear Instruments & Methods in Physics Research B, 2016, 371, 344-349.	0.6	17
151	Advanced targets, diagnostics and applications of laser-generated plasmas. Radiation Effects and Defects in Solids, 2015, 170, 355-366.	0.4	0
152	Ta-ion implantation induced by a high-intensity laser for plasma diagnostics and target preparation. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 384-388.	0.6	5
153	D-D nuclear fusion processes induced in polyethylene foams by TW Laser-generated plasma. EPJ Web of Conferences, 2015, 96, 01032.	0.1	5
154	Gold Nanoparticles Enhancing Protontherapy Efficiency. Recent Patents on Nanotechnology, 2015, 9, 51-60.	0.7	23
155	High-intensity laser for Ta and Ag implantation into different substrates for plasma diagnostics. Nuclear Instruments & Methods in Physics Research B, 2015, 354, 56-59.	0.6	10
156	Laser irradiations of advanced targets promoting absorption resonance for ion acceleration in TNSA regime. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 221-226.	0.6	29
157	Ion acceleration from intense laser-generated plasma: methods, diagnostics and possible applications. Nukleonika, 2015, 60, 207-212.	0.3	22
158	Properties of Single- and Double-Lap Polymeric Joints Welded by a Diode Laser. International Journal of Polymer Analysis and Characterization, 2015, 20, 442-456.	0.9	10
159	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
160	Characterization of advanced polymethylmethacrylate (PMMA) targets for TNSA laser irradiation. Applied Surface Science, 2015, 351, 580-587.	3.1	9
161	Laser-matter interaction and plasma production: methodologies, radiation emission, diagnostics and applications. Radiation Effects and Defects in Solids, 2015, 170, 239-240.	0.4	1
162	Effect of metallic nanoparticles in thin foils for laser ion acceleration. Physica Scripta, 2015, 90, 015603.	1.2	20

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163	Treatment Techniques on Aluminum to Modify the Surface Wetting Properties. Acta Physica Polonica A, 2015, 128, 48-53.	0.2	23
164	HYDROGENATED TARGETS FOR HIGH ENERGY PROTON GENERATION FROM LASER IRRADIATING IN TNSA REGIME. Acta Polytechnica, 2015, 55, 199-202.	0.3	2
165	Radiotherapy Improvements by Using Au Nanoparticles. Recent Patents on Nanotechnology, 2015, 9, 114-125.	0.7	18
166	POLYMERS CONTAINING Cu NANOPARTICLES IRRADIATED BY LASER TO ENHANCE THE ION ACCELERATION. Acta Polytechnica, 2015, 55, 150-153.	0.3	0
167	Intraocular lens employed for cataract surgery. Journal of Physics: Conference Series, 2014, 508, 012014.	0.3	4
168	ELIMED: MEDICAL APPLICATION AT ELI-BEAMLINES. STATUS OF THE COLLABORATION AND FIRST RESULTS. Acta Polytechnica, 2014, 54, 285-289.	0.3	4
169	Ion Acceleration and D-D Nuclear Fusion in Laser-Generated Plasma from Advanced Deuterated Polyethylene. Molecules, 2014, 19, 17052-17065.	1.7	21
170	Charged-particle acceleration through laser irradiation of thin foils at Prague Asterix Laser System. Physica Scripta, 2014, T161, 014027.	1.2	3
171	Measurement of ion emission from plasmas obtained with a 600 fs KrF laser. Physica Scripta, 2014, T161, 014032.	1.2	2
172	ELIMED, MEDical and multidisciplinary applications at ELI-Beamlines. Journal of Physics: Conference Series, 2014, 508, 012010.	0.3	19
173	Medical research and multidisciplinary applications with laser-accelerated beams: the ELIMED network at ELI-Beamlines. Journal of Instrumentation, 2014, 9, C04026-C04026.	0.5	0
174	Laser ablation coupled to mass quadrupole spectrometry for analysis in the cultural heritage. Journal of Physics: Conference Series, 2014, 508, 012025.	0.3	1
175	Aluminium plasma production at high laser intensity. Journal of Applied Physics, 2014, 115, .	1.1	19
176	Neutron fluences of the D-D fusion reaction at 10^{16} W/cm ² laser-target interactions. Journal of Physics: Conference Series, 2014, 508, 012023.	0.3	4
177	UV-VIS-NIR spectral optical properties of silver iodide borate glasses. Journal of Physics: Conference Series, 2014, 508, 012028.	0.3	2
178	Analysis of selective laser cleaning of <i>patina</i> on bronze coins. Journal of Physics: Conference Series, 2014, 508, 012032.	0.3	4
179	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
180	Silicon carbide detectors for diagnostics of ion emission from laser plasmas. Physica Scripta, 2014, T161, 014021.	1.2	14

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181	Nd:Yag laser irradiation of single lap joints made by polyethylene and polyethylene doped by carbon nanomaterials. Journal of Physics: Conference Series, 2014, 508, 012027.	0.3	3
182	Spatial and Temporal Evolution of Laser-Generated Plasmas Measured Through Langmuir Probe. IEEE Transactions on Plasma Science, 2014, 42, 799-805.	0.6	5
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