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2241	The human visual system: how is its design related to the physics of the natural environment?.		
2240	Impact of Proton Irradiation-Induced Bulk Defects on Gate-Lag in GaN HEMTs. <b>2009</b> , 56, 3192-3195		24
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2238	MetalSemiconductor FieldEffect Transistor (MESFET). <b>2010</b> ,		
2237	Deep levels induced by reactive ion etching in n- and p-type 4H <sub>2</sub> SiC. <b>2010</b> , 108, 023706		32
2236	New Radiophotoluminescence Glass Dosimeter with Specialized Radiation-Sensitive Surface Layer. <b>2010</b> , 49, 116401		3
2235	Effect of Electron Flow Direction and Via Number on Electromigration Mechanism for Copper Dual Damascene Interconnects. <b>2010</b> , 49, 124201		1
2234	Evidence of nontermination of collective rotation near the maximum angular momentum in Rb75. <b>2010</b> , 82,		5
2233	Microscopic description of the thermalization process during pulsed laser deposition of aluminium in the presence of argon background gas. <b>2010</b> , 43, 425205		9
2232	Evidence of light guiding in ion-implanted diamond. <b>2010</b> , 105, 233903		46
2231	Research Activities in Fission Chamber Modeling in Support of the Nuclear Energy Industry. <b>2010</b> ,		12
2230	Monte Carlo simulation of the subsurface growth mode during pulsed laser deposition. <b>2011</b> , 110, 043304		15
2229	4He <sup>+</sup> ion beam irradiation induced modification of poly(dimethylsiloxane). Characterization by infrared spectroscopy and ion beam analytical techniques. <b>2011</b> , 27, 3842-8		30
2228	On the mechanisms of precipitation of graphene on nickel thin films. <b>2011</b> , 96, 46003		135
2227	Modification of the structure of diamond with MeV ion implantation. <b>2011</b> , 20, 774-778		21
2226	Locations of boundaries of outer and inner radiation belts as observed by Cluster and Double Star. <b>2011</b> , 116, n/a-n/a		26

2225	Ion Beam Shepherd for Contactless Space Debris Removal. <b>2011</b> , 34, 916-920	126
2224	Low energy focused ion beam milling of silicon and germanium nanostructures. <b>2011</b> , 22, 105304	19
2223	14 MeV Neutrons SEU Cross Sections in Deep Submicron Devices Calculated Using Heavy Ion SEU Cross Sections. <b>2011</b> , 58, 848-854	11
2222	Chemical control of the charge state of nitrogen-vacancy centers in diamond. <b>2011</b> , 83,	230
2221	Measurements of high energy loss rates of fast highly charged U ions channeled in thin silicon crystals. <b>2011</b> , 84,	4
2220	Effects of grain size and temperature on mechanical and failure properties of ultrananocrystalline diamond. <b>2011</b> , 20, 1303-1309	25
2219	Ion Beam Analysis: A Century of Exploiting the Electronic and Nuclear Structure of the Atom for Materials Characterisation. <b>2011</b> , 04, 41-82	33
2218	Electronic excitations of slow ions in a free electron gas metal: evidence for charge exchange effects. <b>2011</b> , 107, 163201	47
2217	Resonant charge transfer in low-energy ion scattering: Information depth in the reionization regime. <b>2011</b> , 605, 1913-1917	23
2216	Localized subsurface modification of materials using micro-low-energy multiple ion beamlets. <b>2011</b> , 1, 042150	7
2215	Sensitization of Solid State Nuclear Track Detector in Carbon Dioxide for Improved Fast Neutron Dosimeter. <b>2011</b> , 46, 163-167	4
2214	Investigation of boron implantation into silicon by quantitative energy-filtered transmission electron microscopy. <b>2011</b> , 326, 012053	1
2213	Ion irradiation of carbonaceous interstellar analogues. <b>2011</b> , 529, A146	60
2212	Quantum control of proximal spins using nanoscale magnetic resonance imaging. <b>2011</b> , 7, 687-692	100
2211	DNA damage response signaling in lung adenocarcinoma A549 cells following gamma and carbon beam irradiation. <b>2011</b> , 716, 10-9	19
2210	EAGLE—the central European Array for Gamma Levels Evaluation at the Heavy Ion Laboratory of the University of Warsaw. <b>2011</b> , 659, 84-90	10
2209	Test of a micromegas detector with helium-based gas mixtures for active target time projection chambers utilizing radioactive isotope beams. <b>2011</b> , 660, 64-68	7
2208	Focused ion beam fabrication and IBIC characterization of a diamond detector with buried electrodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 2340-2344	1.2 28

2207	An empirical formula for calculation of range of charged particles with Z from 2 to 103 and energy from 2.5 MeV/nucleon to 500 MeV/nucleon in beryllium. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 2145-2149	1.2	3
2206	Can swift heavy ions create latent tracks in silicon?. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 2649-2656	1.2	19
2205	Real-time in situ study of hydrogen diffusion in amorphous Si formed by ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 2657-2661	1.2	4
2204	Sub-100keV ion beam generation with a Van De Graaff accelerator using an external DC voltage supply. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 2699-2702	1.2	1
2203	Comparison of the response of various TLDs to cosmic radiation and ion beams: Current results of the HAMLET project. <b>2011</b> , 46, 1680-1685		22
2202	Calculation of the relative efficiency of thermoluminescent detectors to space radiation. <b>2011</b> , 46, 1728-1731		9
2201	Feasibility study of solid-state microdosimetry for energetic protons and heavy ions with coincident particle identification. <b>2011</b> , 46, 1539-1542		2
2200	Chemical changes in PMMA as a function of depth due to proton beam irradiation. <b>2011</b> , 130, 702-707		34
2199	Steady-state neutronic analysis of converting the UK CONSORT reactor for ADS experiments. <b>2011</b> , 38, 2653-2660		2
2198	Radiolysis of sulfuric acid, sulfuric acid monohydrate, and sulfuric acid tetrahydrate and its relevance to Europa. <b>2011</b> , 215, 370-380		20
2197	Development of Monte Carlo Modeling for Neutron-Induced Failures of Trench FieldStop IGBT. <b>2011</b> , 58, 2748-2754		6
2196	Ion irradiation of novel yttrium/ytterbium-based pyrochlores: The effect of disorder. <b>2011</b> , 59, 7530-7537		39
2195	Practicality of the cyclotron production of radiolanthanide <sup>142</sup> Pr: a potential for therapeutic applications and biodistribution studies. <b>2011</b> , 288, 937-942		23
2194	Noble gas diffusion mechanism in lunar soil simulant grains: Results from <sup>4</sup> He <sup>+</sup> implantation and extraction experiments. <b>2011</b> , 22, 566-577		2
2193	A fast numerical method for calculating the 3D proton dose profile in a single-ring wobbling spreading system. <b>2011</b> , 34, 317-25		2
2192	Gas-gain study of standard CERN GEM and Thick GEM in low-pressure He/CO <sub>2</sub> mixed gas. <b>2011</b> , 625, 39-42		3
2191	Challenging measurement of the <sup>16</sup> O+ <sup>27</sup> Al elastic and inelastic angular distributions up to large angles. <b>2011</b> , 648, 46-51		37
2190	Trace element quantification in high-resolution Rutherford backscattering spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1284-1287	1.2	14

2189	Ion track structure calculations in silicon Spatial and temporal aspects. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1630-1633	1.2	27
2188	The sputtering properties of artificial polymorphic AB binary compound crystals. <b>2011</b> , 257, 8864-8870		0
2187	Simulation of energy spectra of slow He+ ions scattered from a copper surface. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1425-1427	1.2	2
2186	Measurements of induced activity in concrete by secondary particles at forward direction produced by intermediate energy heavy ions on an Fe target. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1929-1939	1.2	2
2185	TiNxOy/TiN dielectric contrasts obtained by ion implantation of $\{rm O\}_2^+$ ; structural, optical and electrical properties. <b>2011</b> , 44, 235501		6
2184	Ionodeterioration of the silicon nanocrystal photoluminescence. <b>2011</b> , 110, 114904		2
2183	Actinides and radiation effects: impact on the back-end of the nuclear fuel cycle. <b>2011</b> , 75, 2359-2377		38
2182	Direct observation of two protons in the decay of $^{54}\text{Zn}$ . <b>2011</b> , 107, 102502		58
2181	Re-evaluation of neutron-He4 elastic scattering data near 20 MeV. <b>2011</b> , 83,		2
2180	Formation and annealing of dislocation loops induced by nitrogen implantation of ZnO. <b>2011</b> , 109, 023513		41
2179	Diamond processing by focused ion beam Surface damage and recovery. <b>2011</b> , 99, 183109		26
2178	The evolution of vacancy-type defects in silicon-on-insulator structures studied by positron annihilation spectroscopy. <b>2011</b> , 110, 016104		4
2177	. <b>2011</b> ,		
2176	Modification of Porous Silicon Formation by Varying the End of Range of Ion Irradiation. <b>2011</b> , 14, D45		5
2175	Sensing external spins with nitrogen-vacancy diamond. <b>2011</b> , 13, 055004		85
2174	Simulation of Proton Irradiation Damage for Fe-Ni Magnetic Alloy. <b>2012</b> , 503-504, 338-341		
2173	X-Ray Induced Depth Profiling of Ion Implantations into Various Semiconductor Materials. <b>2012</b> , 195, 274-276		1
2172	A multi-detector, digitizer based neutron depth profiling device for characterizing thin film materials. <b>2012</b> , 83, 073303		5

2171	Vacancy-type defects created by single-shot and chain ion implantation of silicon. <b>2012</b> , 14, 025007	3
2170	Interaction vertex imaging (IVI) for carbon ion therapy monitoring: a feasibility study. <b>2012</b> , 57, 4655-69	71
2169	The Effects of Femtosecond Laser Irradiation and Thermal Annealing on the Optoelectronic Properties of Silicon Supersaturated with Sulfur. <b>2012</b> , 29, 046101	3
2168	Spectroscopic measurement of the refractive index of ion-implanted diamond. <b>2012</b> , 37, 671-3	23
2167	Ion-Beam-Induced Luminescence Analysis as Diagnostic Tool for Microstructure Patterning on Diamond by Proton Beam Writing. <b>2012</b> , 51, 06FB07	5
2166	Formation of ZnO Nanoparticles by ZnO <sup>-</sup> and O <sup>-</sup> Dual Beam Ion Implantation and Thermal Annealing. <b>2012</b> , 51, 11PG03	1
2165	High-precision thickness regulation of graphene layers with low energy helium plasma implantation. <b>2012</b> , 23, 375303	3
2164	Combined helium ion beam and nanoimprint lithography attains 4 nm half-pitch dense patterns. <b>2012</b> , 30, 06F304	66
2163	Dopant effects on solid phase epitaxy in silicon and germanium. <b>2012</b> , 111, 034906	8
2162	Complex refractive index variation in proton-damaged diamond. <b>2012</b> , 20, 19382-94	21
2161	Structural recovery of ion implanted ZnO nanowires. <b>2012</b> , 111, 083524	12
2160	Fluorine passivation of vacancy defects in bulk germanium for Ge metal-oxide-semiconductor field-effect transistor application. <b>2012</b> , 101, 072104	39
2159	Impact of the surface-near silicon substrate properties on the microstructure of sputter-deposited AlN thin films. <b>2012</b> , 101, 221602	32
2158	Influence of ion source configuration and its operation parameters on the target sputtering and implantation process. <b>2012</b> , 83, 063304	
2157	Spin fluctuations of paramagnetic Rh clusters revealed by x-ray magnetic circular dichroism. <b>2012</b> , 109, 197204	14
2156	Inelastic energy loss of medium energy H and He ions in Au and Pt: Deviations from velocity proportionality. <b>2012</b> , 86,	21
2155	Reorientation-effect measurement of the <math>\langle 21+  E2   21+ \rangle</math> matrix element in <sup>10</sup> Be. <b>2012</b> , 86,	20
2154	Helium irradiation effects in polycrystalline Si, silica, and single crystal Si. <b>2012</b> , 111, 083527	15

2153	Depth profiling of residual activity of U237 fragments as a range verification technique for U238 primary ion beam. <b>2012</b> , 15,	3
2152	Atomic Excitation Exploited By Energetic-Beam Characterization Methods. <b>2012</b> , 1	1
2151	Resolution, masking capability and throughput for direct-write, ion implant mask patterning of diamond surfaces using ion beam lithography. <b>2012</b> , 22, 055005	11
2150	Effects of Displacing Radiation on Graphite Observed Using in situ Transmission Electron Microscopy. <b>2012</b> , 1383, 67	
2149	Radiochemical studies relevant to cyclotron production of the therapeutic radionuclide 167Tm. <b>2012</b> , 100, 915-918	1
2148	Mechanical Behavior of Ion-Irradiated Fe-Cr alloys Investigated by Spherical Indentation. <b>2012</b> , 1424, 1	2
2147	Radiation Damage of II, III, IV, V Pyrochlores - CaLnZrNbO7. <b>2012</b> , 1475, 571	
2146	On the Formation of 50 nm Diameter Free-Standing Silicon Wires Produced by Ion Irradiation. <b>2012</b> , 1, P66-P69	14
2145	Biological effectiveness on live cells of laser driven protons at dose rates exceeding 109 Gy/s. <b>2012</b> , 2, 011209	82
2144	Swift heavy ion-induced silicon dioxide nanostructuration: experimental observation of velocity effect. <b>2012</b> , 60, 10402	3
2143	Surface modifications of comet-exposed aerogel from the Stardust cometary collector. <b>2012</b> , 47, 1336-1346	1
2142	The isotopic composition and fluence of solar-wind nitrogen in a genesis B/C array collector. <b>2012</b> , 47, 1436-1448	8
2141	Hydrogen-induced defects in ion-implanted Si. <b>2012</b> , 86,	13
2140	Ion implantation induced modification of optical properties in single-crystal diamond studied by coherent acoustic phonon spectroscopy. <b>2012</b> , 101, 181904	11
2139	Ion-matter interaction: the three-dimensional version of the thermal spike model. Application to nanoparticle irradiation with swift heavy ions. <b>2012</b> , 45, 065302	72
2138	Three-dimensional silicon micromachining. <b>2012</b> , 22, 113001	22
2137	Single Particle Displacement Damage in Silicon. <b>2012</b> , 59, 3054-3061	45
2136	Optical and paramagnetic properties of polycrystalline CVD-diamonds implanted with deuterium ions. <b>2012</b> , 79, 600-609	2

2135	Effect of swift heavy ion irradiation on ethylenechlorotrifluoroethylene copolymer. <b>2012</b> , 81, 1741-1746	6
2134	Synthesis of buried layers of $\text{SiC}$ in Si by multiple energy carbon ion implantations and post thermal annealing. <b>2012</b> , 524, 35-38	1
2133	Pulse Shape Measurements by On-Chip Sense Amplifiers of Single Event Transients Propagating Through a 90 nm Bulk CMOS Inverter Chain. <b>2012</b> , 59, 2778-2784	17
2132	Characterization of ultra-shallow aluminum implants in silicon by grazing incidence and grazing emission X-ray fluorescence spectroscopy. <b>2012</b> , 27, 1432	32
2131	A compact dosimeter for space applications. <b>2012</b> ,	
2130	A Linear Mode Avalanche Photodiode for Ion Detection in the Energy Range 5–50 keV. <b>2012</b> , 59, 2601-2607	12
2129	Overview of mercury radionuclides and nuclear model calculations of $^{195}\text{Hg}$ and $^{197}\text{Hg}$ to evaluate experimental cross section data. <b>2012</b> , 85,	12
2128	Sensitivity of the threshold displacement energy to temperature and time. <b>2012</b> , 86,	17
2127	Prototype AT-TPC: Toward a new generation active target time projection chamber for radioactive beam experiments. <b>2012</b> , 691, 39-54	55
2126	Pilot experiment on proton acceleration using the 25TW femtosecond Ti:Sapphire laser system at PALS. <b>2012</b> , 690, 48-52	1
2125	Statistical analysis of cross-section data for $^{12}\text{C}(4\text{He},4\text{He})^{12}\text{C}$ backscattering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 285, 116-124	1.2 5
2124	Depth-profiled characterization of complex refractive index of ion implanted optically transparent polymers using multilayer calculations and reflectance data. <b>2012</b> , 86, 1822-1827	8
2123	LEO protons on selected optical fibers. <b>2012</b> ,	
2122	Systematic calculation of threshold displacement energies: Case study in rutile. <b>2012</b> , 85,	42
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2119	Accelerated chemical aging of crystalline nuclear waste forms. <b>2012</b> , 16, 126-133	11
2118	Graphite grains in supernova ejecta – Insights from a noble gas study of 91 individual KFC1 presolar graphite grains from the Murchison meteorite. <b>2012</b> , 76, 147-160	12



2117	Silicon-based photonic crystals fabricated using proton beam writing combined with electrochemical etching method. <b>2012</b> , 7, 416		19
2116	In-depth multi-technique characterization of chromium-silicon mixed oxides produced by reactive ion beam mixing of the Cr/Si interface. <b>2012</b> , 27, 390		3
2115	Integrative approaches for cellular cryo-electron tomography: correlative imaging and focused ion beam micromachining. <b>2012</b> , 111, 259-81		51
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2113	Creation of nanodots on mica surfaces induced by highly charged xenon ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 286, 299-302	1.2	10
2112	Thermal-to-fusion neutron convertor and Monte Carlo coupled simulation of deuteron/triton transport and secondary products generation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 287, 19-25	1.2	4
2111	Experimental study of the He stopping power into Al <sub>2</sub> O <sub>3</sub> films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 287, 1-3	1.2	2
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2097	An energy-loss model for low- and intermediate-energy carbon projectiles in water. <b>2012</b> , 88, 45-9	6
2096	Are nanoporous materials radiation resistant?. <b>2012</b> , 12, 3351-5	185
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2092	FIRST MEASUREMENTS OF THE COMPLETE HEAVY-ION CHARGE STATE DISTRIBUTIONS OF C, O, AND Fe ASSOCIATED WITH INTERPLANETARY CORONAL MASS EJECTIONS. <b>2012</b> , 751, 20	31
2091	Study of focused-ion-beam-induced structural and compositional modifications in nanoscale bilayer systems by combined grazing incidence x ray reflectivity and fluorescence. <b>2012</b> , 111, 044324	13
2090	Depth profiling of Nb <sub>x</sub> O/W multilayers: effect of primary ion beam species (O <sub>2</sub> <sup>+</sup> , Ar <sup>+</sup> and Cs <sup>+</sup> ). <b>2012</b> , 44, 934-937	1
2089	Charge state manipulation of qubits in diamond. <b>2012</b> , 3, 729	152
2088	Study of Graphene Growth Mechanism on Nickel Thin Films. <b>2012</b> , 1-7	
2087	On the impact of the fissile coating on the fission chamber signal. <b>2012</b> , 681, 101-109	23
2086	In Situ Neutron Techniques for Studying Lithium Ion Batteries. <b>2012</b> , 91-106	24
2085	THz Photoconductive Antennas Made From Ion-Bombarded Semiconductors. <b>2012</b> , 33, 455-473	14
2084	A novel technique for simultaneous diagnosis and radioprotection by radioactive cerium oxide nanoparticles: study of cyclotron production of <sup>137m</sup> Ce. <b>2012</b> , 292, 53-59	24
2083	Alpha-particle energy distributions from thin sources measured with small solid angles. <b>2012</b> , 292, 571-577	4
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2081	Accelerator production of the positron emitter zirconium-89. <b>2012</b> , 41, 97-103			31
2080	Energy limitation for models to simulate the buffer gas cooling. <b>2012</b> , 309, 44-48			4
2079	Effects of focused ion beam milling on electron backscatter diffraction patterns in strontium titanate and stabilized zirconia. <b>2012</b> , 246, 279-86			9
2078	Physico-chemical transformations in swift heavy ion modified poly(ethyleneterephthalate). <b>2012</b> , 81, 284-289			7
2077	Effect of irradiation on nonlinear optical recirculation cavity performance. <b>2012</b> , 664, 294-298			
2076	Development of a silicon detector monitor for the HIE-ISOLDE superconducting upgrade of the REX-ISOLDE heavy-ion linac. <b>2012</b> , 672, 21-28			3
2075	Biaxial texture development in the ion beam assisted deposition of magnesium oxide. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 272, 28-32	1.2		13
2074	Magnetic properties of Co, Ni, Pt and their alloy nanoparticles formed in SiO <sub>2</sub> by ion beam synthesis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 272, 70-73	1.2		6
2073	Heavy ion energy loss straggling data from Time of Flight stopping force measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 273, 6-10	1.2		10
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2070	Developing the IBA equipment to increase the versatility of the CNA. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 273, 218-221	1.2		2
2069	Single ion hit detection set-up for the Zagreb ion microprobe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 277, 140-144	1.2		8
2068	Nanometric transformation of the matter by short and intense electronic excitation: Experimental data versus inelastic thermal spike model. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 277, 28-39	1.2		108
2067	Deuteron induced secondary electron emission from titanium deuteride surface. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 280, 1-4	1.2		7
2066	Potassium-silicate glass exposed to low energy H <sup>+</sup> beam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 280, 111-116	1.2		4
2065	Electric field gradient calculations in ZnO samples implanted with <sup>111</sup> In( <sup>111</sup> Cd). <b>2012</b> , 152, 399-402			10
2064	Modeling reactive magnetron sputtering: Fixing the parameter set. <b>2012</b> , 206, 3666-3675			34

2063	Atom probe study of radiation induced grain boundary segregation/depletion in a Fe-12%Cr alloy. <b>2012</b> , 57, 14-19	15
2062	Simulation of thermally-induced processes of diffusion and phase formation in layered metal-metalloid systems. <b>2012</b> , 67, 263-268	1
2061	Measurement of the neutron capture cross-sections of <sup>232</sup> Th at 5.9 MeV and 15.5 MeV. <b>2012</b> , 48, 1	17
2060	Cross sections for bare and dressed carbon ions in water and neon. <b>2013</b> , 58, 641-72	31
2059	Pre-equilibrium effects on proton, deuteron, and alpha induced reactions for the production of <sup>72</sup> As as a PET imaging radioisotope. <b>2013</b> , 298, 501-512	10
2058	RIMS analysis of ion induced fragmentation of molecules sputtered from an enriched U <sub>3</sub> O <sub>8</sub> matrix. <b>2013</b> , 296, 407-412	6
2057	Temperature measurements of fusion plasmas produced by Petawatt-Laser-Irradiated D <sub>2</sub> - ( <sup>3</sup> He or CD <sub>4</sub> - ( <sup>3</sup> He) clustering gases. <b>2013</b> , 111, 055002	34
2056	Radiation damage in multiphase ceramics. <b>2013</b> , 443, 120-127	7
2055	A thousand-fold enhancement of photoluminescence in porous silicon using ion irradiation. <b>2013</b> , 114, 053517	6
2054	Detection of Alpha Particles and Low Energy Gamma Rays by Thermo-Bonded Micromegas in Xenon Gas. <b>2013</b> , 60, 3008-3013	3
2053	Calculation of Cross Section for Ion-Induced SEU Through Direct Ionization in Nanometric Silicon Devices With Small Critical Energy. <b>2013</b> , 60, 3092-3103	8
2052	A windowless hydrogen gas target for the measurement of <sup>7</sup> Be(p,( $\gamma$ )) <sup>8</sup> B with the recoil separator ERNA. <b>2013</b> , 49, 1	10
2051	Surface modification of Makrofol-DE induced by $\alpha$ particles. <b>2013</b> , 93, 4276-4285	9
2050	On the use of SRIM for computing radiation damage exposure. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 310, 75-80	1.2 857
2049	The Genesis Solar Wind Concentrator: Flight and Post-Flight Conditions and Modeling of Instrumental Fractionation. <b>2013</b> , 175, 93-124	6
2048	Silicon and porous silicon mid-infrared photonic crystals. <b>2013</b> , 112, 517-523	13
2047	Ion beam synthesis and carrier dynamics of ZnO nanoparticles embedded in a SiO <sub>2</sub> matrix. <b>2013</b> , 112, 801-806	2
2046	Anthology of the Development of Radiation Transport Tools as Applied to Single Event Effects. <b>2013</b> , 60, 1876-1911	71

2045	An Updated Perspective of Single Event Gate Rupture and Single Event Burnout in Power MOSFETs. <b>2013</b> , 60, 1912-1928		67
2044	Magneto-optical studies of Gd-implanted GaN: No spin alignment of conduction band electrons. <b>2013</b> , 103, 092401		4
2043	Depth Profiling of Electronic Transport Parameters in n-on-p Boron-Ion-Implanted Vacancy-Doped HgCdTe. <b>2013</b> , 42, 3108-3113		22
2042	A novel instrument for quantitative nanoanalytics involving complementary X-ray methodologies. <b>2013</b> , 84, 045106		75
2041	Ozone and carbon trioxide synthesis by low energy ion implantation onto solid carbon dioxide and implications to astrochemistry. <b>2013</b> , 139, 074706		12
2040	Simulation of the sputtering of Si nanoclusters with diameters of (28) nm under bombardment with monatomic and cluster ions using the method of classical molecular dynamics. <b>2013</b> , 7, 201-210		1
2039	Evaluating focused ion beam induced damage in soft materials. <b>2013</b> , 50, 51-6		30
2038	Structural modifications of swift heavy ion irradiated PEN probed by optical and thermal measurements. <b>2013</b> , 88, 49-55		8
2037	Event identification in 3He proportional counters using risetime discrimination. <b>2013</b> , 717, 51-57		18
2036	Pulse shape discrimination at low energies with a double sided, small-pitch strip silicon detector. <b>2013</b> , 732, 87-90		9
2035	Swift heavy ion induced modification in morphological and physico-chemical properties of tin oxide nanocomposites. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 315, 179-183	1.2	10
2034	New Type of Neutron Image Scintillator based on H310BO3/ZnS(Ag). <b>2013</b> , 43, 216-222		1
2033	Physical properties of epitaxial ZrN/MgO(001) layers grown by reactive magnetron sputtering. <b>2013</b> , 31, 061516		39
2032	Analytical Method to Evaluate Soft Error Rate Due to Alpha Contamination. <b>2013</b> , 60, 4059-4066		5
2031	SEE Measurements and Simulations Using Mono-Energetic GeV-Energy Hadron Beams. <b>2013</b> , 60, 4142-4149		13
2030	The Impact of Depletion Region Potential Modulation on Ion-Induced Current Transient Response. <b>2013</b> , 60, 4150-4158		15
2029	Minority anion substitution by Ni in ZnO. <b>2013</b> , 103, 091905		3
2028	The Impact of X-Ray and Proton Irradiation on $\text{HfO}_2/\text{Hf}$ -Based Bipolar Resistive Memories. <b>2013</b> , 60, 4540-4546		45

2027	Glycine's radiolytic destruction in ices: first in situ laboratory measurements for Mars. <b>2013</b> , 13, 647-55		29
2026	Space-weathering of solar system bodies: a laboratory perspective. <b>2013</b> , 113, 9086-150		99
2025	. <b>2013</b> , 60, 4727-4736		5
2024	A setup for soft proton irradiation of X-ray detectors for future astronomical space missions. <b>2013</b> , 721, 65-72		6
2023	Influence of source composition and particle energy on the determination of gross alpha activity. <b>2013</b> , 82, 376-81		3
2022	Irradiation effects of 25MeV silicon ions on SiGe heterojunction bipolar transistors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 312, 77-83	1.2	14
2021	Annealing of ion irradiation damage in nuclear graphite. <b>2013</b> , 434, 334-346		19
2020	An analysis of 175 MeV Nickel ion irradiation and annealing effects on silicon NPN rf power transistors. <b>2013</b> , 13, 66-75		9
2019	Micromachining of commodity plastics by proton beam writing and fabrication of spatial resolution test-chart for neutron radiography. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 306, 299-301	1.2	7
2018	Electrically active sodium-related defect centres in silicon. <b>2013</b> , 28, 105010		5
2017	Characterization of self-damaged (U,Pu)N fuel used in the NIMPHE program. <b>2013</b> , 443, 491-496		2
2016	NEXAFS spectroscopy of CVD diamond films exposed to fusion relevant hydrogen plasma. <b>2013</b> , 34, 45-49		18
2015	Novel techniques of preparing TEM samples for characterization of irradiation damage. <b>2013</b> , 252, 251-7		3
2014	Radiation hardness of graphene and MoS2 field effect devices against swift heavy ion irradiation. <b>2013</b> , 113, 214306		67
2013	Molecular dynamics simulation of the initial stages of He bubbles formation in silicon. <b>2013</b> , 21, 065002		20
2012	Superplastic nanocrystalline ceramics at room temperature and high strain rates. <b>2013</b> , 69, 525-528		16
2011	In situ X-ray diffraction study of the growth of silver nanoparticles embedded in silica film by ion irradiation: The effect of volume fraction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 311, 5-9	1.2	5
2010	Effects of energetic ion irradiation on the magnetism of FeNi Invar alloy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 314, 103-106	1.2	1

2009	XRD monitoring of self-irradiation in uranium-ameridium mixed oxides. <b>2013</b> , 52, 14196-204		25
2008	Sputtering of Al nanoclusters by 103keV monatomic or polyatomic ions studied by Molecular Dynamics simulations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 303, 136-141	1.2	1
2007	Structural and optical properties of porous silicon prepared by anodic etching of irradiated silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 315, 188-191	1.2	13
2006	75MeV boron ion irradiation studies on Si PIN photodiodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 316, 205-209	1.2	2
2005	A compact biological cell irradiation system with a Van de Graaff accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 315, 360-363	1.2	2
2004	. <b>2013</b> ,		1
2003	Fast Atom Beam Activated Wafer Bonds between n-Si and n-GaAs with Low Resistance. <b>2013</b> , 2, Q178-Q181		41
2002	Ion beam engineered nano silver silicon substrates for surface enhanced Raman spectroscopy. <b>2013</b> , 44, 1014-1017		10
2001	Yield determination for a titanium neutron-forming target. <b>2013</b> , 113, 345-350		6
2000	Influence of the ion synthesis and ion doping regimes on the effect of sensitization of erbium emission by silicon nanoclusters in silicon dioxide films. <b>2013</b> , 55, 2361-2367		
1999	Resonance triplet at E <sub>4.5</sub> MeV in the <sup>40</sup> Ca( $\alpha$ ) <sup>44</sup> Ti reaction. <b>2013</b> , 88,		14
1998	Measuring and modelling cell-to-cell variation in uptake of gold nanoparticles. <b>2013</b> , 138, 7070-4		32
1997	Size-controlled fluorescent nanodiamonds: a facile method of fabrication and color-center counting. <b>2013</b> , 5, 11776-82		21
1996	Sputtering effect of low-energy ions on biological target: The analysis of sputtering product of urea and capsaicin. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 308, 28-33	1.2	3
1995	Proton and alpha particle induced changes in thermal and mechanical properties of Lexan polycarbonate. <b>2013</b> , 91, 1-6		20
1994	Experimental study of fusion neutron and proton yields produced by petawatt-laser-irradiated D <sub>2</sub> He or CD <sub>2</sub> He clustering gases. <b>2013</b> , 88, 033108		15
1993	Analytical Models for Three-Dimensional Ion Implantation Profiles in FinFETs. <b>2013</b> , 32, 2004-2008		3
1992	Optimization of DC Reactive Magnetron Sputtering Deposition Process for Efficient YSZ Electrolyte Thin Film SOFC. <b>2013</b> , 13, 279-288		18

1991	Evaluation of the neutron energy spectrum, angular distribution, and yield of the $^9\text{Be}(d,n)$ reaction with a thick beryllium target. <b>2013</b> , 87,		11
1990	Positron study of alpha particles effect on oxide-dispersion-strengthened steels. <b>2013</b> , 443, 012016		
1989	Synthesis, thermal evolution and optical properties of CuZn alloy nanoparticles in SiO <sub>2</sub> sequentially implanted with dual ions. <b>2013</b> , 549, 231-237		18
1988	LET effects on the hydrogen production induced by the radiolysis of pure water. <b>2013</b> , 82, 74-79		19
1987	L-shell X-ray production cross sections of selected lanthanoids by impact of $^7\text{Li}^{2+}$ ions with energies between 3.50 MeV and 5.25 MeV. <b>2013</b> , 83, 48-53		5
1986	Deep levels generated by thermal oxidation in p-type 4H-SiC. <b>2013</b> , 113, 033705		14
1985	A modified Tersoff potential for pure and hydrogenated diamond-like carbon. <b>2013</b> , 67, 146-150		37
1984	A niobium water target for routine production of [ $\text{Nb}$ ]Fluoride with a MC 17 cyclotron. <b>2013</b> , 72, 133-6		7
1983	Improved zircon fission-track annealing model based on reevaluation of annealing data. <b>2013</b> , 40, 93-106		13
1982	Evaluation of the cyclotron production of $^{165}\text{Er}$ by different reactions. <b>2013</b> , 295, 923-928		8
1981	Oxidation of polyethylene implanted with low energy magnesium ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 307, 624-629	1.2	2
1980	In situ TEM investigation of Xe ion irradiation induced defects and bubbles in pure molybdenum single crystal. <b>2013</b> , 437, 240-249		12
1979	Microstructural evolution of CANDU spacer material Inconel X-750 under in situ ion irradiation. <b>2013</b> , 443, 49-58		42
1978	Modeling of ion beam induced charge sharing experiments for the design of high resolution position sensitive detectors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 306, 169-175	1.2	3
1977	Tunnel junction sensors for HCI-surface measurements at low kinetic energies. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 317, 66-71	1.2	2
1976	Characteristics of fast ions from laser-induced plasma and their applicability to shallow junction doping. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 314, 162-165	1.2	
1975	Sputtering yield of amorphous $^{13}\text{C}$ thin films under swift heavy-ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 314, 34-38	1.2	7
1974	In gas laser ionization and spectroscopy experiments at the Superconducting Separator Spectrometer (S3): Conceptual studies and preliminary design. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 317, 570-581	1.2	38



1973	Characterization of the lattice defects in Ge-ion implanted ZnO bulk single crystals by Rutherford Backscattering: Origins of low resistivity. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 307, 366-369	1.2	4
1972	Measurement of fast neutron spectrum using CR-39 detectors and a new image analysis program (autoTRAK_n). <b>2013</b> , 729, 444-450		23
1971	On the formation of silicon wires produced by high-energy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 296, 32-40	1.2	12
1970	CVD diamond as a position sensitive detector using charge carrier transition time. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 306, 186-190	1.2	1
1969	Thermal release rate studies of nuclear reaction products from polycrystalline metal matrices. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 297, 86-93	1.2	4
1968	Nuclear model calculations of charged-particle-induced reaction cross section data for the production of the radiohalogen <sup>34</sup> Clm. <b>2013</b> , 87,		6
1967	The study of Ga <sup>+</sup> FIB implanting crystal silicon and subsequent annealing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 307, 253-256	1.2	18
1966	Opening windows into the cell: focused-ion-beam milling for cryo-electron tomography. <b>2013</b> , 23, 771-7		127
1965	UV-visible and infrared spectroscopic studies of Li <sup>3+</sup> and C <sup>5+</sup> irradiated PADC polymer. <b>2013</b> , 3, 122-128		30
1964	The effect of gallium implantation on the optical properties of diamond. <b>2013</b> , 35, 47-52		7
1963	Measurement of L X-ray production cross sections by impact of proton beams on Hf, Ir, and Tl. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 316, 113-122	1.2	14
1962	Evaluation of freestanding GaN as an alpha and neutron detector. <b>2013</b> , 719, 13-16		24
1961	The influence of Cu/Nb interfaces on local vacancy concentrations in Cu. <b>2013</b> , 69, 21-24		13
1960	Improvement of trapped field in DyBaCuO bulk by proton irradiation. <b>2013</b> , 484, 117-119		1
1959	Basic performance of a position-sensitive tissue-equivalent proportional chamber (PS-TEPC). <b>2013</b> , 732, 591-594		7
1958	Influence of the Oxygen content on the thermal migration of Xenon in ZrCxO1-x. <b>2013</b> , 440, 546-552		5
1957	Au nanoparticles formation in ZnO/SiO <sub>2</sub> interface by 10 MeV Si <sup>3+</sup> irradiation. <b>2013</b> , 35, 1315-1319		
1956	Detecting swift heavy ion irradiation effects with graphene. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 314, 18-20	1.2	14

1955	Towards pump-probe experiments of defect dynamics with short ion beam pulses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 315, 350-355	1.2	9
1954	Helium concentration in tungsten nano-tendrils surface morphology using Elastic Recoil Detection. <b>2013</b> , 438, S913-S916		26
1953	Synthesis of optical waveguides in SiO <sub>2</sub> by silver ion implantation. <b>2013</b> , 35, 927-934		18
1952	Degradation of thermal radiative properties of variable emissivity device based on manganese oxides in simulated space environment. <b>2013</b> , 71, 258-263		7
1951	Modelling surface restructuring by slow highly charged ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 317, 149-153	1.2	3
1950	Nanoindentation of model Fe-Cr alloys with self-ion irradiation. <b>2013</b> , 433, 174-179		53
1949	Effects of dose rate change under irradiation on hardening and microstructural evolution in A533B steel. <b>2013</b> , 50, 160-168		11
1948	Effect of 50-keV proton irradiation on the magnetism of a Fe <sub>66</sub> Ni <sub>34</sub> Invar alloy. <b>2013</b> , 333, 13-17		3
1947	IBIC characterization of an ion-beam-micromachined multi-electrode diamond detector. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 306, 181-185	1.2	19
1946	Palladium nanoparticles supported on nitrogen-doped HOPG: a surface science and electrochemical study. <b>2013</b> , 15, 2923-31		38
1945	Prediction of the thermal release of transactinide elements ( <sup>112</sup> Bk to <sup>116</sup> Lr) from metals. <b>2013</b> , 101, 211-220		3
1944	Erosion at the inner wall of JET during the discharge campaigns 2001-2009. <b>2013</b> , 438, S780-S783		19
1943	Cu out-diffusion in kesterites: a transmission electron microscopy specimen preparation artifact. <b>2013</b> , 102, 051902		21
1942	Relative thermoluminescent efficiency of LiF detectors for proton radiation: Batch variability and energy dependence. <b>2013</b> , 56, 205-208		9
1941	Evaluation of the relative thermoluminescence efficiency of LiF:Mg,Ti and LiF:Mg,Cu,P TL detectors to low-energy heavy ions. <b>2013</b> , 51-52, 7-12		14
1940	Mask assisted fabrication of nanoislands of BiFeO <sub>3</sub> by ion beam milling. <b>2013</b> , 113, 154101		18
1939	Noninvasive spatial metrology of single-atom devices. <b>2013</b> , 13, 1903-9		25
1938	Multi-scale simulation of structural heterogeneity of swift-heavy ion tracks in complex oxides. <b>2013</b> , 25, 135001		17

1937	Electrochemical behavior of N and Ar implanted highly oriented pyrolytic graphite substrates and activity toward oxygen reduction reaction. <b>2013</b> , 88, 477-487		47
1936	Reduced deuterium retention in self-damaged tungsten exposed to high-flux plasmas at high surface temperatures. <b>2013</b> , 53, 043003		24
1935	Ion impacts on graphene/Ir(111): interface channeling, vacancy funnels, and a nanomesh. <b>2013</b> , 13, 1948-55		73
1934	Effects of irradiation temperature and dose rate on the mechanical properties of self-ion implanted Fe and Fe/Ir alloys. <b>2013</b> , 439, 33-40		81
1933	Effect of grain boundary orientation on radiation-induced segregation in a Fe-5.2at.% Cr alloy. <b>2013</b> , 61, 3490-3498		34
1932	Splitting of photoluminescent emission from nitrogen-vacancy centers in diamond induced by ion-damage-induced stress. <b>2013</b> , 15, 043027		24
1931	Assessment of surface potential models by molecular dynamics simulations of atom ejection from (100)-Si surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 303, 165-169	1.2	1
1930	Optical addressing of an individual erbium ion in silicon. <b>2013</b> , 497, 91-4		106
1929	A Monte Carlo track structure simulation code for the full-slowing-down carbon projectiles of energies 1 keV u <sup>-1</sup> -10 MeV u <sup>-1</sup> in water. <b>2013</b> , 58, 673-701		23
1928	Ellipsometrical characterization of complex refractive index depth profile of 50 keV silicon ion implanted PMMA. <b>2013</b> , 94, 19-25		7
1927	Alpha localized radiolysis and corrosion mechanisms at the iron/water interface: Role of molecular species. <b>2013</b> , 433, 124-131		5
1926	Electron backscatter diffraction characterization of plasma immersion ion implantation effects in stainless steel. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 295, 38-41	1.2	1
1925	Surface plasma pretreatment for enhanced diamond nucleation on AlN. <b>2013</b> , 102, 201609		20
1924	Measurement of the MACS of at kT=30keV as a test of a method for Maxwellian neutron spectra generation. <b>2013</b> , 727, 1-6		16
1923	Amorphization and reduction of thermal conductivity in porous silicon by irradiation with swift heavy ions. <b>2013</b> , 114, 014903		30
1922	The Evolution of Neutron Straw Detector Applications in Homeland Security. <b>2013</b> , 60, 1140-1146		15
1921	Defect enhanced funneling of diffusion current in silicon. <b>2013</b> , 102, 042102		11
1920	Hardening of self ion implanted tungsten and tungsten 5-wt% rhenium. <b>2013</b> , 432, 428-436		95

1919	Ion-Energy Dependency in Proton Irradiation Induced Chemical Processes of Poly(dimethylsiloxane). <b>2013</b> , 117, 25884-25889		18
1918	Pattern formation on Ge by low energy ion beam erosion. <b>2013</b> , 15, 103029		41
1917	Zn ion post-implantation-driven synthesis of CuZn alloy nanoparticles in Cu-preimplanted silica and their thermal evolution. <b>2013</b> , 5, 13055-62		11
1916	Direct graphene synthesis on SiO <sub>2</sub> /Si substrate by ion implantation. <b>2013</b> , 102, 193102		29
1915	Effects of He irradiation on Ti <sub>3</sub> AlC <sub>2</sub> : Damage evolution and behavior of He bubbles. <b>2013</b> , 440, 606-611		57
1914	Mechanical and Raman spectroscopic studies of multi-ion-beam irradiated 12,18Cr-oxide dispersion strengthened steels. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 297, 35-38	1.2	10
1913	Resonant R scattering of <sup>6</sup> He: Limits of clustering in <sup>10</sup> Be. <b>2013</b> , 87,		48
1912	Characterization of boron coated vitreous carbon foam for neutron detection. <b>2013</b> , 729, 346-355		7
1911	Characterization of the beam profile for the PIXE/PIGE beam line at the CRC proton cyclotron. <b>2013</b> , 63, 1291-1295		3
1910	Supply Voltage Dependent On-Chip Single-Event Transient Pulse Shape Measurements in 90-nm Bulk CMOS Under Alpha Irradiation. <b>2013</b> , 60, 2640-2646		9
1909	Materials modification using ions with energies below 1MeV/u. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 317, 143-148	1.2	3
1908	Distribution and compositional variations of plasma ions in Mercury's space environment: The first three Mercury years of MESSENGER observations. <b>2013</b> , 118, 1604-1619		72
1907	Rapid prototyping of Fresnel zone plates via direct Ga(+) ion beam lithography for high-resolution X-ray imaging. <b>2013</b> , 7, 9788-97		42
1906	Laser-driven ion acceleration from relativistically transparent nanotargets. <b>2013</b> , 15, 085015		61
1905	Reflection of solar wind hydrogen from the lunar surface. <b>2013</b> , 118, 292-305		21
1904	Unlocking doping and compositional profiles of nanowire ensembles using SIMS. <b>2013</b> , 24, 045701		16
1903	Structure and phase transitions at the interface between $\alpha$ -Al <sub>2</sub> O <sub>3</sub> and Pt. <b>2013</b> , 25, 232202		6
1902	Chemical evolution via beta decay: a case study in strontium-90. <b>2013</b> , 25, 065504		11

1901	Evaluation of resistless Ga+ beam lithography for UV NIL stamp fabrication. <b>2013</b> , 24, 365302	3
1900	Application of proton beam writing for the direct etching of polytetrafluoroethylene for polydimethylsiloxane replica molding. <b>2013</b> , 31, 06F403	2
1899	Quasi-two-dimensional Ag nanoparticle formation in silica by Xe ion irradiation and subsequent Ag ion implantation. <b>2013</b> , 102, 133102	9
1898	Determination of thickness and composition of high-k dielectrics using high-energy electrons. <b>2013</b> , 103, 071911	10
1897	Long electron spin coherence in ion-implanted GaN: The role of localization. <b>2013</b> , 102, 192102	13
1896	Material Removal Property in Low Energy Ion Beam Etching. <b>2013</b> , 706-708, 142-147	
1895	Semiconductor Characterization by Scanning Ion Beam Induced Charge (IBIC) Microscopy. <b>2013</b> , 2013, 1-17	9
1894	Fast neutron production from lithium converters and laser driven protons. <b>2013</b> , 20, 053106	16
1893	Optimum laser intensity for the production of energetic deuterium ions from laser-cluster interaction. <b>2013</b> , 20, 093104	10
1892	Fabrication of nanopores in a graphene sheet with heavy ions: A molecular dynamics study. <b>2013</b> , 114, 234304	44
1891	Analytical modeling of thin film neutron converters and its application to thermal neutron gas detectors. <b>2013</b> , 8, P04020-P04020	36
1890	Epitaxial Ferroelectric Nanostructures Fabricated by FIB Milling. <b>2013</b> , 23-43	2
1889	Formation of Co-implanted Silicon Ultra-Shallow Junctions for Low Thermal Budget Applications. <b>2013</b> , 30, 016101	2
1888	Process Prediction for Low-Energy Ion Beam Figuring Based on BH Modified Model. <b>2013</b> , 552, 238-243	
1887	Formation of single crystalline tellurium supersaturated silicon pn junctions by ion implantation followed by pulsed laser melting. <b>2013</b> , 34, 063001	
1886	Production and separation of <sup>97</sup> Ru and coproduced <sup>95</sup> Tc from <sup>12</sup> C-induced reaction on yttrium target. <b>2013</b> , 101, 437-444	16
1885	SPICE-NIRS microbeam: a focused vertical system for proton irradiation of a single cell for radiobiological research. <b>2013</b> , 54, 736-47	40
1884	Measurement of the plasma astrophysical S factor for the <sup>3</sup> He(d,p) <sup>4</sup> He reaction in exploding molecular clusters. <b>2013</b> , 111, 082502	36

1883	Lattice dependent motion of voids during electromigration. <b>2013</b> , 113, 134505	5
1882	Heavy-ion-induced desorption yields of cryogenic surfaces bombarded with 1.4 MeV/u xenon ions. <b>2013</b> , 16,	1
1881	Micro/nanofabrication of poly(L-lactic acid) using focused ion beam direct etching. <b>2013</b> , 103, 163105	10
1880	Manipulation of the graphene surface potential by ion irradiation. <b>2013</b> , 102, 153103	41
1879	Cathodoluminescence characterization of suspended GaN nanomembranes. <b>2013</b> , 114, 043516	5
1878	Very bright, near-infrared single photon emitters in diamond. <b>2013</b> , 1, 032120	10
1877	Comparison of proton microbeam and gamma irradiation for the radiation hardness testing of silicon PIN diodes. <b>2013</b> , 8, P09003-P09003	2
1876	First determination of the $^8\text{Li}$ valence neutron asymptotic normalization coefficient using the $^7\text{Li}(^8\text{Li},^7\text{Li})^8\text{Li}$ reaction. <b>2013</b> , 88,	9
1875	Effect of the substrate orientation on the formation of He-plates in Si. <b>2013</b> , 114, 193501	4
1874	Excitation functions for production of Rf isotopes in the $^{248}\text{Cm}+^{18}\text{O}$ reaction. <b>2013</b> , 88,	9
1873	Defect formation and thermal stability of H in high dose H implanted ZnO. <b>2013</b> , 114, 083111	18
1872	Effects of atomic collisions on the stoichiometry of thin films prepared by pulsed laser deposition. <b>2013</b> , 111, 036101	29
1871	Ion beam irradiation induced fabrication of vertical coupling waveguides. <b>2013</b> , 102, 131112	5
1870	Formation and optical absorption property of nanometer metallic colloids in Zn and Ag dually implanted silica: Synthesis of the modified Ag nanoparticles. <b>2013</b> , 113, 034304	11
1869	Radiation Damage of $\text{LaMgAl}_{11}\text{O}_{19}$ and $\text{CeMgAl}_{11}\text{O}_{19}$ Magnetoplumbite. <b>2013</b> , 96, 3325-3332	3
1868	A facility for soft proton irradiation of X-ray detectors and instrument testing for future space missions. <b>2013</b> ,	
1867	Fast atom beam-activated n-Si/n-GaAs wafer bonding with high interfacial transparency and electrical conductivity. <b>2013</b> , 113, 203512	29
1866	The impact of negative oxygen ion bombardment on electronic and structural properties of magnetron sputtered ZnO:Al films. <b>2013</b> , 102, 242106	51

1865	Measurement of radiative proton capture on $^{18}\text{F}$ and implications for oxygen-neon novae. <b>2013</b> , 110, 262502	17
1864	High Response in a Tellurium-Supersaturated Silicon Photodiode. <b>2013</b> , 30, 036101	11
1863	Direct measurement and modelling of internal strains in ion-implanted diamond. <b>2013</b> , 25, 385403	20
1862	A pixel detector system for laser-accelerated ion detection. <b>2013</b> , 8, P03008-P03008	9
1861	Measurement and modelling of anomalous polarity pulses in a multi-electrode diamond detector. <b>2013</b> , 104, 28005	6
1860	Graphical user interface for yield and doses estimations for cyclotron technetium production. <b>2013</b> ,	
1859	Specifications for hard condensed matter specimens for three-dimensional high-resolution tomographies. <b>2013</b> , 19, 726-39	17
1858	Study of the Spreading of Perfluoropolyether Lubricants on a Diamond-Like Carbon Film. <b>2013</b> , 56, 255-267	14
1857	Hydrogen Plasma-Driven Permeation through a Reduced Activation Ferritic Steel Alloy F82H. <b>2013</b> , 63, 361-363	15
1856	Radiological characteristics of charged particle interactions in the first clay-nanoparticle dichromate gel dosimeter. <b>2013</b> , 444, 012110	1
1855	Swift heavy ion irradiation of water ice from MeV to GeV energies. <b>2013</b> , 557, A97	47
1854	Digging gold: keV He(+) ion interaction with Au. <b>2013</b> , 4, 453-60	35
1853	Thin Film Polymer Composite Scintillators for Thermal Neutron Detection. <b>2013</b> , 2013, 1-8	9
1852	Scintillator diagnostics for the detection of laser accelerated ion beams. <b>2014</b> , 9, P09004-P09004	2
1851	Synthesis of embedded Au nanostructures by ion irradiation: influence of ion induced viscous flow and sputtering. <b>2014</b> , 5, 105-10	13
1850	Exploring the alpha cluster structure of nuclei using the thick target inverse kinematics technique for multiple alpha decays. <b>2014</b> , 66, 03005	2
1849	Enhancing Hydrogen Diffusion in Silica Matrix by Using Metal Ion Implantation to Improve the Emission Properties of Silicon Nanocrystals. <b>2014</b> , 2014, 1-8	1
1848	Direct-Write Ion Beam Lithography. <b>2014</b> , 2014, 1-26	41

1847	Fabrication of polydimethylsiloxane microlens arrays on a plastic film by proton beam writing. <b>2014</b> , 32, 06F506	3
1846	A study on the consequence of swift heavy ion irradiation of Zn-silica nanocomposite thin films: electronic sputtering. <b>2014</b> , 5, 1691-8	5
1845	References. <b>2014</b> , 14, 99-110	
1844	Solar particle event detected by ALTEA on board the International Space Station. <b>2014</b> , 4, A19	14
1843	Characterization of an Alternative Diamond Based Microdosimeter Prototype. <b>2014</b> , 61, 3479-3484	6
1842	Proton Radiation-Induced Void Formation in Ni/Au-Gated AlGaIn/GaN HEMTs. <b>2014</b> , 35, 1194-1196	23
1841	TID and Displacement Damage Resilience of 1T1R $\text{HfO}_2/\text{Hf}$ Resistive Memories. <b>2014</b> , 61, 2972-2978	17
1840	Comparison of total dose effects on SiGe heterojunction bipolar transistors induced by different swift heavy ion irradiation. <b>2014</b> , 23, 116104	2
1839	$^{13}\text{C}$ ( $\beta$ ) $^{16}\text{O}$ background in a liquid scintillator based neutrino experiment. <b>2014</b> , 38, 116201	4
1838	Deuterium retention and near-surface modification of ion-irradiated diamond exposed to fusion-relevant plasma. <b>2014</b> , 54, 073003	5
1837	Local formation of nitrogen-vacancy centers in diamond by swift heavy ions. <b>2014</b> , 116, 214107	13
1836	Nanomechanical and optical properties of yttrium thin films by magnetron sputtering. <b>2014</b> , 39, 3086-9	3
1835	Offline trapping of $^{221}\text{Fr}$ in a magneto-optical trap from implantation of an $^{225}\text{Ac}$ ion beam. <b>2014</b> , 9, P10013-P10013	4
1834	Improved spectral data unfolding for radiochromic film imaging spectroscopy of laser-accelerated proton beams. <b>2014</b> , 85, 043305	31
1833	Prediction of Spontaneous Plastic Deformation of Irradiated Metallic Glasses due to Thermal Spike-Induced Plasticity. <b>2014</b> , 2, 221-226	8
1832	Ionization effects coupled with the residual products of nuclear reactions induced by cosmic protons in the metallization layers of modern 3D integrated-circuit assemblies. <b>2014</b> , 8, 1265-1274	1
1831	Neutron dose estimation for $^1\text{H}+^9\text{Be}$ and $^1\text{H}+^{12}\text{C}$ reactions at 20 MeV proton energy via LET spectrometry using CR-39 detectors. <b>2014</b> , 302, 1289-1293	3
1830	A 14 MeV neutron generator as a source of various charged particles produced in fusion reactions. <b>2014</b> , T161, 014074	3



1829	Depth profiling of the modification induced by high-flux deuterium plasma in tungsten and tungsten-tantalum alloys. <b>2014</b> , 54, 123013	23
1828	Relative nuclear abundance from C to Fe and integrated flux inside the Russian part of the ISS with the Sileye-3/Alteino experiment. <b>2014</b> , 41, 015202	3
1827	Microstructure evolution of zircaloy-4 during Ne ion irradiation and annealing: An in situ TEM investigation. <b>2014</b> , 23, 036102	6
1826	D and D/He plasma interactions with diamond: Surface modification and D retention. <b>2014</b> , 49, 103-110	6
1825	Track etch membranes (TEMs) for separation sciences from BARC-TIFR Pelletron accelerator. <b>2014</b> , 302, 947-950	1
1824	Irradiation-induced microstructural change in helium-implanted single crystal and nano-engineered SiC. <b>2014</b> , 453, 280-286	20
1823	Creation of deep blue light emitting nitrogen-vacancy center in nanosized diamond. <b>2014</b> , 104, 093101	7
1822	Stark shift and field ionization of arsenic donors in 28Si-silicon-on-insulator structures. <b>2014</b> , 104, 193502	15
1821	Nanoscale nuclear magnetic resonance with a 1.9-nm-deep nitrogen-vacancy sensor. <b>2014</b> , 104, 033102	111
1820	Material Stack Design With High Tolerance to Process-Induced Damage in Domain Wall Motion Device. <b>2014</b> , 50, 1-4	3
1819	Irradiation resistance of a nanostructured 316 austenitic stainless steel. <b>2014</b> , 63, 012121	11
1818	An apparatus to manipulate and identify individual Ba ions from bulk liquid Xe. <b>2014</b> , 85, 095114	11
1817	A compact proton spectrometer for measurement of the absolute DD proton spectrum from which yield and $R$ are determined in thin-shell inertial-confinement-fusion implosions. <b>2014</b> , 85, 103504	13
1816	Thermal Desorption Studies of Ar+Implanted Silicon. <b>2014</b> , 125, 1400-1404	2
1815	Hydrogen accumulation in nanostructured as compared to the coarse-grained tungsten. <b>2014</b> , 453, 287-295	27
1814	Laser induced neutron production by explosion of the deuterium clusters. <b>2014</b> , 21, 013101	4
1813	Response function stability of single crystal diamond detectors to 14 MeV neutrons. <b>2014</b> , 85, 11D839	1
1812	Evaluation of mask repair strategies via focused electron, helium, and neon beam induced processing for EUV applications. <b>2014</b> ,	5

1811	Study of Oxide-Dispersion-Strengthened Ferritic Steels after Ion Implantation. <b>2014</b> , 125, 741-743		1
1810	Acetone degradation by cosmic rays in the solar neighbourhood and in the Galactic Centre. <b>2014</b> , 444, 3792-3801		12
1809	Vacancy type defect formation in irradiated Iron investigated by positron beam Doppler broadening technique. <b>2014</b> , 505, 012018		7
1808	Evaluation of EUV resist performance below 20nm CD using helium ion lithography. <b>2014</b> ,		9
1807	Dopant profile engineering using ArF excimer laser, flash lamp and spike annealing for junction formation. <b>2014</b> ,		2
1806	Degradation mechanisms of AlGaIn/GaN HEMTs on sapphire, Si, and SiC substrates under proton irradiation. <b>2014</b> ,		6
1805	MeV-proton channeling in crystalline silicon. <b>2014</b> ,		0
1804	A study of buried channel formation in oxidized porous silicon. <b>2014</b> , 4, 57402-57411		7
1803	Extraction of thermalized projectile fragments from a large volume gas cell. <b>2014</b> , 763, 543-546		29
1802	The cryogenic gas stopping cell of SHIPTRAP. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 338, 126-138	1.2	23
1801	Ion polished Cr/Sc attosecond multilayer mirrors for high water window reflectivity. <b>2014</b> , 22, 26526-36		12
1800	Metal-semiconductor-metal ion-implanted Si waveguide photodetectors for C-band operation. <b>2014</b> , 22, 9150-8		12
1799	Si <sup>+</sup> -implanted Si-wire waveguide photodetectors for the mid-infrared. <b>2014</b> , 22, 27415-24		18
1798	Optical depth localization of nitrogen-vacancy centers in diamond with nanometer accuracy. <b>2014</b> , 22, 29986-95		9
1797	Electrical properties and electronic structure of Si-implanted hexagonal boron nitride films. <b>2014</b> , 105, 012104		18
1796	A novel facility for 3D micro-irradiation of living cells in a controlled environment by MeV ions. <b>2014</b> , 85, 014302		16
1795	Lifetime measurements of states in O15. <b>2014</b> , 90,		7
1794	Cavity morphology in a Ni based superalloy under heavy ion irradiation with hot pre-injected helium. II. <b>2014</b> , 115, 103509		11

1793	High-fidelity adiabatic inversion of a 31P electron spin qubit in natural silicon. <b>2014</b> , 104, 092115	18
1792	Empirical assessment of the detection efficiency of CR-39 at high proton fluence and a compact, proton detector for high-fluence applications. <b>2014</b> , 85, 043302	16
1791	Highly tunable formation of nitrogen-vacancy centers via ion implantation. <b>2014</b> , 105, 063107	19
1790	Enhanced electrochemical etching of ion irradiated silicon by localized amorphization. <b>2014</b> , 104, 192108	2
1789	Cavity morphology in a Ni based superalloy under heavy ion irradiation with cold pre-injected helium. I. <b>2014</b> , 115, 103508	11
1788	Characterisation of deuterium spectra from laser driven multi-species sources by employing differentially filtered image plate detectors in Thomson spectrometers. <b>2014</b> , 85, 093303	26
1787	Position sensitive detection of neutrons in high radiation background field. <b>2014</b> , 85, 013304	8
1786	Hydrogen engineering via plasma immersion ion implantation and flash lamp annealing in silicon-based solar cell substrates. <b>2014</b> , 115, 064505	11
1785	Trace element content and magnetic properties of commercial HOPG samples studied by ion beam microscopy and SQUID magnetometry. <b>2014</b> , 4, 107142	22
1784	In situ growth and coalescence of He-filled bi-dimensional defects in Si by H supply. <b>2014</b> , 115, 223515	1
1783	Interaction of Sn atoms with defects introduced by ion implantation in Ge substrate. <b>2014</b> , 115, 173102	3
1782	Enhanced sputtering and incorporation of Mn in implanted GaAs and ZnO nanowires. <b>2014</b> , 47, 394003	22
1781	Creation and physical aspects of luminescent patterns using helium ion microscopy. <b>2014</b> , 115, 183502	10
1780	Chemical and physical effects induced by heavy cosmic ray analogues on frozen methanol and water ice mixtures. <b>2014</b> , 443, 2733-2745	14
1779	Micro-Raman study on the softening and stiffening of phonons in rutile titanium dioxide film: Competing effects of structural defects, crystallite size, and lattice strain. <b>2014</b> , 115, 143504	35
1778	Strength of the $E_p=1.842$ MeV resonance in the $^{40}\text{Ca}(p, n)^{41}\text{Sc}$ reaction reexamined. <b>2014</b> , 89,	7
1777	Comparison of the $\alpha$ decay half-life of $^{210}\text{Po}$ implanted in a copper matrix at 4.2 and 293 K. <b>2014</b> , 89,	8
1776	$\alpha$ decay of the new neutron-deficient isotope $^{205}\text{Ac}$ . <b>2014</b> , 89,	14

1775	Ultrashort pulsed neutron source. <b>2014</b> , 113, 184801		82
1774	Hybrid quantum circuit with implanted erbium ions. <b>2014</b> , 105, 162404		17
1773	The E3 center in zinc oxide: Evidence for involvement of hydrogen. <b>2014</b> , 104, 092111		16
1772	Criticality of Low-Energy Protons in Single-Event Effects Testing of Highly-Scaled Technologies. <b>2014</b> , 61, 2896-2903		24
1771	Ion irradiated graphite exposed to fusion-relevant deuterium plasma. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 340, 21-26	1.2	4
1770	Integration of nano-scale components and supports in micromachined 3D silicon structures. <b>2014</b> , 24, 045008		3
1769	Understanding and engineering of NiGe/Ge junction formed by phosphorous ion implantation after germanidation. <b>2014</b> , 105, 062107		5
1768	Photonic crystals in lithium niobate by combining focussed ion beam writing and ion-beam enhanced etching. <b>2014</b> , 211, 2421-2425		17
1767	Effect of oxygen plasma and thermal oxidation on shallow nitrogen-vacancy centers in diamond. <b>2014</b> , 105, 042406		28
1766	Measurements of fusion reactions of low-intensity radioactive carbon beams on $^{12}\text{C}$ and their implications for the understanding of X-ray bursts. <b>2014</b> , 112, 192701		27
1765	Dynamics of modification of Ni/n-GaN Schottky barrier diodes irradiated at low temperature by 200 MeV $\text{Ag}^{14+}$ ions. <b>2014</b> , 104, 033507		15
1764	A new study of the $^{22}\text{Ne}(p, n)^{23}\text{Na}$ reaction deep underground: Feasibility, setup and first observation of the 186 keV resonance. <b>2014</b> , 50, 1		35
1763	Changes in the surface morphology induced by 1.0-MeV Au ion bombardment of Ti and Ti-6Al-4V. <b>2014</b> , 46, 314-320		1
1762	Invited article: Characterization of background sources in space-based time-of-flight mass spectrometers. <b>2014</b> , 85, 091301		19
1761	Double-resonant LA phonon scattering in defective graphene and carbon nanotubes. <b>2014</b> , 90,		18
1760	The Feasibility of direct measurement of the $^{44}\text{Ti}(p, p)^{47}\text{V}$ and $^{40}\text{Ca}(p, p)^{43}\text{Sc}$ reactions in forward kinematics at astrophysically relevant temperatures. <b>2014</b> , 50, 1		3
1759	Search for low-mass dark matter with CsI(Tl) crystal detectors. <b>2014</b> , 90,		20
1758	LIGHT-ELEMENT NUCLEOSYNTHESIS IN A MOLECULAR CLOUD INTERACTING WITH A SUPERNOVA REMNANT AND THE ORIGIN OF BERYLLIUM-10 IN THE PROTOSOLAR NEBULA. <b>2014</b> , 796, 124		18

1757	Surface morphology and deuterium retention of tungsten after low- and high-flux deuterium plasma exposure. <b>2014</b> , 54, 083014		49
1756	Origin of the lattice sites occupied by implanted Co in Si. <b>2014</b> , 29, 125006		4
1755	Plasma process induced physical damages on multilayered magnetic films for magnetic domain wall motion. <b>2014</b> , 53, 03DF03		4
1754	Evolution of isolated copper clusters under low-energy argon ion bombardment. <b>2014</b> , 56, 2568-2572		6
1753	Physical response of gold nanoparticles to single self-ion bombardment. <b>2014</b> , 29, 2387-2397		6
1752	Swift heavy ion track formation in Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> pyrochlore: Effect of electronic energy loss. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 336, 102-115	1.2	44
1751	Preliminary production of <sup>211</sup> At at the Texas A&M University Cyclotron Institute. <b>2014</b> , 107, 1-9		4
1750	APPLICATION OF THE S3M AND MCNPX CODES IN PARTICLE DETECTOR DEVELOPMENT. <b>2014</b> , 27, 1460153		1
1749	Guided-wave phase-matched second-harmonic generation in KTiOPO <sub>4</sub> waveguide produced by swift heavy-ion irradiation. <b>2014</b> , 53, 117102		9
1748	Fluence measurement of fast neutron fields with a highly efficient recoil proton telescope using active pixel sensors. <b>2014</b> , 161, 41-5		4
1747	Helium Implantation of Ultrafine Grained Tungsten within a TEM. <b>2014</b> , 1645, 1		
1746	Evidence for age-related performance degradation of ( <sup>241</sup> Am foil sources commonly used in UK schools. <b>2014</b> , 34, 347-61		0
1745	Passive tailoring of laser-accelerated ion beam cut-off energy by using double foil assembly. <b>2014</b> , 21, 023119		6
1744	Structural modifications of swift-ion-bombarded metallic glasses studied by high-energy X-ray synchrotron radiation. <b>2014</b> , 80, 309-316		30
1743	High efficiency proton beam generation through target thickness control in femtosecond laser-plasma interactions. <b>2014</b> , 104, 214101		45
1742	Nanoscale lithography of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> wires using silicon stencil masks. <b>2014</b> , 25, 445301		8
1741	Generation of 3D nanopatterns with smooth surfaces. <b>2014</b> , 25, 315302		7
1740	Confinement in MeV Au <sup>2+</sup> implanted Si: a Raman scattering study. <b>2014</b> , 5, 015002		4

1739	Development of a PIXE method at high energy with the ARRONAX cyclotron. <b>2014</b> , 302, 895-901		4
1738	Swift Heavy Ion-Induced Decomposition and Phase Transformation in Nanocrystalline SnO <sub>2</sub> . <b>2014</b> , 1715, 13		0
1737	High resistivity isolation for AlGa <sub>N</sub> /Ga <sub>N</sub> HEMT using Al double-implantation. <b>2014</b> , 1635, 9-14		2
1736	Attosecond broadband multilayer mirrors for the water window spectral range. <b>2014</b> ,		1
1735	Potku $\square$ New analysis software for heavy ion elastic recoil detection analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 331, 34-41	1.2	88
1734	Proton stopping power measurements using high intensity short pulse lasers produced proton beams. <b>2014</b> , 740, 105-106		9
1733	Behavioral modeling of SRIM tables for numerical simulation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 322, 2-6	1.2	19
1732	Proximity gettering of slow diffuser contaminants in CMOS image sensors. <b>2014</b> , 91, 91-99		37
1731	Shielding data for hadron-therapy ion accelerators: Attenuation of secondary radiation in concrete. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 319, 154-167	1.2	6
1730	The shape of ion tracks in natural apatite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 117-120	1.2	17
1729	Resistance to He <sup>2+</sup> induced irradiation damage in metallic glass Zr <sub>64</sub> Cu <sub>17.8</sub> Ni <sub>10.7</sub> Al <sub>7.5</sub> . <b>2014</b> , 444, 342-348		18
1728	Measurements of <sup>186</sup> Re production cross section induced by deuterons on (nat)W target at ARRONAX facility. <b>2014</b> , 41 Suppl, e16-8		8
1727	Fish gelatin thin film standards for biological application of PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 37-41	1.2	6
1726	Modifications of structural, optical and chemical properties of Li <sup>3+</sup> irradiated polyurethane and polyetheretherketone. <b>2014</b> , 96, 181-185		23
1725	Ion-beam simulation of radiation damage produced by fast neutrons in heterophase structures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 41-44	1.2	9
1724	Metallic conduction behavior in selenium-hyperdoped silicon. <b>2014</b> , 17, 134-137		6
1723	High energy (MeV) ion fluence dependent nano scale free volume defects studies of PMMA films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 320, 64-69	1.2	16
1722	Radial distribution of dose within heavy charged particle tracks $\square$ Models and experimental verification using LiF:Mg,Cu,P TL detectors. <b>2014</b> , 71, 242-246		5

1721	A comparative study of the effect of Ni <sup>9+</sup> and Au <sup>8+</sup> ion beams on the properties of poly(methacrylic acid) grafted gum ghatti films. <b>2014</b> , 97, 253-261		11
1720	Corrosion and wear mechanisms of aluminum alloys surface reinforced by multicharged N-implantation. <b>2014</b> , 310, 311-316		10
1719	Modifications in structure and optical property of Cu nanoparticles in SiO <sub>2</sub> by post heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 28-32	1.2	2
1718	Study of physical and chemical modifications induced by 50 MeV Li <sup>3+</sup> ion beam in polymers. <b>2014</b> , 94, 54-57		19
1717	Sputtering yields exceeding 1000 by 80keV Xe irradiation of Au nanorods. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 341, 17-21	1.2	14
1716	( <sup>232</sup> Th(d,4n)( <sup>230</sup> Pa cross-section measurements at ARRONAX facility for the production of ( <sup>230</sup> U. <b>2014</b> , 41 Suppl, e19-22		11
1715	60MeV Ni ion induced modifications in nano-CdS/polystyrene composite films. <b>2014</b> , 94, 49-53		21
1714	Modeling detector response function of alpha particles for neutron depth profiling. <b>2014</b> , 57, 35-38		2
1713	Evaluation of 500 keV proton irradiation of bilayer graphene on SiC by the use of SRIM code, a Monte Carlo simulation method for stopping and range of ions in matter. <b>2014</b> , 299, 13-17		4
1712	ENMR. <b>2014</b> , 225, 173-182		31
1711	Measurement of thermal conductivity in proton irradiated silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 325, 11-14	1.2	27
1710	The production of radionuclides for nuclear medicine from a compact, low-energy accelerator system. <b>2014</b> , 41 Suppl, e7-15		2
1709	Simulation of the direct production of <sup>99m</sup> Tc at a small cyclotron. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 329, 18-21	1.2	13
1708	Accurate Simulations of ( <sup>206</sup> Pb Recoils in SuperCDMS. <b>2014</b> , 176, 937-942		3
1707	Effect of ion doping on the dislocation-related photoluminescence in Si <sup>+</sup> -implanted silicon. <b>2014</b> , 48, 199-203		7
1706	Cross sections for energetic heavy-ion impact on protonated water clusters. <b>2014</b> , 114, 251-255		1
1705	Chemically Induced Phase Transformation in Austenite by Focused Ion Beam. <b>2014</b> , 45, 1189-1198		21
1704	Measurement of proton induced $\gamma$ -ray emission cross sections on Al from 2.5 to 4.1MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 355-358	1.2	14

1703	Extended X-ray absorption fine structure analysis of the local structure of iron nanoparticles. <b>2014</b> , 114, 19-21		2
1702	Post-annealing effects on structural and magnetic properties of Mn <sup>2+</sup> codoped ZnO thin films. <b>2014</b> , 21, 52-57		5
1701	TRIDYN Collisional computer simulation of the dynamic evolution of 3-dimensional nanostructures under ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 322, 23-33	1.2	72
1700	Neutron depth profiling of Li-ion cell electrodes with a gas-controlled environment. <b>2014</b> , 248, 489-497		18
1699	Production cross sections of niobium and tantalum isotopes in proton-induced reactions on (nat)Zr and (nat)Hf up to 14 MeV. <b>2014</b> , 90, 149-57		8
1698	Optical switching and photoluminescence in erbium-implanted vanadium dioxide thin films. <b>2014</b> , 115, 093107		25
1697	Addressing single nitrogen-vacancy centers in diamond with transparent in-plane gate structures. <b>2014</b> , 14, 2359-64		32
1696	Influence of silicon dangling bonds on germanium thermal diffusion within SiO <sub>2</sub> glass. <b>2014</b> , 104, 111901		9
1695	Fabrication of tapered graded-refractive-index micropillars using ion-implanted-photoresist as an etch mask. <b>2014</b> , 32, 021305		
1694	Irradiation behaviour of $\beta$ and $\gamma$ phases in He ion implanted titanium aluminide alloy. <b>2014</b> , 50, 28-33		11
1693	Influence of Ar/Kr ratio and pulse parameters in a Cr-N high power pulse magnetron sputtering process on plasma and coating properties. <b>2014</b> , 32, 021513		6
1692	Single and multiple profile fitting of AES and XPS intensity-depth profiles for analysis of interdiffusion in thin films. <b>2014</b> , 46, 1057-1063		9
1691	Quantifying defects in N-layer graphene via a phenomenological model of Raman spectroscopy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 319, 71-74	1.2	15
1690	Two shallow donors related to Zn interstitial in S-ion implanted ZnO epitaxial film. <b>2014</b> , 188, 12-14		3
1689	Ion irradiation of Allende meteorite probed by visible, IR, and Raman spectroscopies. <b>2014</b> , 237, 278-292		43
1688	Deuterium accumulation in tungsten under low-energy high-flux plasma exposure. <b>2014</b> , 8, 234-238		3
1687	A review of nuclear batteries. <b>2014</b> , 75, 117-148		137
1686	Plasticity and fracture of sapphire at room temperature: Load-controlled microcompression of four different orientations. <b>2014</b> , 40, 2083-2090		46



1685	Evaluation of radiation hardening in ion-irradiated Fe based alloys by nanoindentation. <b>2014</b> , 444, 1-6		50
1684	Optical spectroscopy and imaging of colour centres in lithium fluoride crystals and thin films irradiated by 3MeV proton beams. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 72-75 <sup>1,2</sup>		9
1683	DFT study of the hyperfine parameters and magnetic properties of ZnO doped with 57Fe. <b>2014</b> , 185, 25-29		2
1682	Improved depth resolution of secondary ion mass spectrometry profiles in diamond: A quantitative analysis of the delta-doping. <b>2014</b> , 557, 222-226		21
1681	Measurement of fast neutron spectra from the interaction of 20MeV protons with thick Be and C targets using CR-39 detector. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 318, 237-240	1.2	11
1680	Photoluminescence of focused ion beam implanted Er <sup>3+</sup> :Y <sub>2</sub> SiO <sub>5</sub> crystals. <b>2014</b> , 8, 880-884		8
1679	Chains of quantum dot molecules grown on Si surface pre-patterned by ion-assisted nanoimprint lithography. <b>2014</b> , 105, 153106		7
1678	Interface and Bulk Charge Localization in Manganite Thin Films. <b>2014</b> , 1, 1400079		2
1677	Numerical estimation of self-sputtering effect in ionized physical vapor deposition system. <b>2014</b> ,		
1676	Measurements of fission product yield in the neutron-induced fission of <sup>238</sup> U with average energies of 9.35 MeV and 12.52 MeV. <b>2014</b> , 65, 18-24		1
1675	Fine phantom image from laser-induced proton radiography with a spatial resolution of several $\mu$ m. <b>2014</b> , 65, 6-11		5
1674	Determination of the nitrogen abundance in organic materials by NanoSIMS quantitative imaging. <b>2014</b> , 29, 512		32
1673	First observation of HO <sub>2</sub> reactivity in water under high energy ions at elevated temperature. <b>2014</b> , 16, 23975-84		4
1672	Application of HOPG and CVD graphene as ion beam detectors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 340, 81-84	1.2	3
1671	Biophysical Basis of Ionizing Radiation. <b>2014</b> , 65-104		4
1670	Plasma-Induced Erosion on Ceramic Wall Structures in Hall-Effect Thrusters. <b>2014</b> , 30, 690-695		17
1669	High accuracy traceable Rutherford backscattering spectrometry of ion implanted samples. <b>2014</b> , 6, 120-129		22
1668	Irradiated rare-earth-doped powellite single crystal probed by confocal Raman mapping and transmission electron microscopy. <b>2014</b> , 45, 383-391		12

1667	A Facility for Soft Proton Irradiation and Instrument Testing for Future Space Missions. <b>2014</b> , 61, 1937-1942	1
1666	Comparison of YBaCuO Films Irradiated With Helium and Neon Ions for the Fabrication of Josephson Devices. <b>2014</b> , 24, 1-5	10
1665	Radiolytic Corrosion of Uranium Dioxide: Role of Molecular Species. <b>2014</b> , 118, 1071-1080	13
1664	Relative TL and OSL efficiency to protons of various dosimetric materials. <b>2014</b> , 161, 112-5	7
1663	Effects of high temperature annealing on defects and luminescence properties in H implanted ZnO. <b>2014</b> , 47, 342001	7
1662	Buried centimeter-long micro- and nanochannel arrays in porous silicon and glass. <b>2014</b> , 14, 2081-9	12
1661	In situ TEM ion irradiation and implantation effects on Au nanoparticle morphologies. <b>2014</b> , 50, 7593-6	9
1660	A time-dependent model for reactive sputter deposition. <b>2014</b> , 47, 235302	40
1659	Fabrication of silicon molds with multi-level, non-planar, micro- and nano-scale features. <b>2014</b> , 25, 375301	3
1658	Peculiarities of temperature dependent ion beam sputtering and channeling of crystalline bismuth. <b>2014</b> , 25, 305302	
1657	Graphical user interface for yield and dose estimations for cyclotron-produced technetium. <b>2014</b> , 59, 3337-52	4
1656	An array of ferromagnetic nanoislands nondestructively patterned via a local phase transformation by low-energy proton irradiation. <b>2014</b> , 8, 4698-704	17
1655	Solid state detectors based on point defects in lithium fluoride for advanced proton beam diagnostics. <b>2014</b> , 156, 170-174	30
1654	Excitation energy dependence of the total kinetic energy release in $^{235}\text{U}(n,f)$ . <b>2014</b> , 89,	12
1653	Effect of irradiation damage on the shear strength of Cu/Nb interfaces. <b>2014</b> , 90-91, 29-32	18
1652	Effect of dislocation density on improved radiation hardening resistance of nano-structured tungsten/rhenium. <b>2014</b> , 611, 388-393	32
1651	Ion implantation in diamond for quantum information processing (QIP): doping and damaging. <b>2014</b> , 36-67	2
1650	The origin of conductivity in ion-irradiated diamond-like carbon [Phase transformation and atomic ordering. <b>2014</b> , 80, 677-690	31

1649	On the formation of the porous structure in nanostructured a-Si coatings deposited by dc magnetron sputtering at oblique angles. <b>2014</b> , 25, 355705		32
1648	A broad angular-range measurement of elastic and inelastic scatterings in the 16O on 27Al reaction at 17.5MeV/u. <b>2014</b> , 763, 314-319		43
1647	Radiation induced microstructures in ODS 316 austenitic steel under dual-beam ions. <b>2014</b> , 455, 242-247		13
1646	An analytical model for the mechanical deformation of locally graphitized diamond. <b>2014</b> , 48, 73-81		8
1645	Emulation of reactor irradiation damage using ion beams. <b>2014</b> , 88, 33-36		158
1644	Development of position-sensitive time-of-flight spectrometer for fission fragment research. <b>2014</b> , 764, 53-58		8
1643	Irradiation effects of high-energy proton beams on MoS2 field effect transistors. <b>2014</b> , 8, 2774-81		82
1642	Experimental study of pyrolytic boron nitride at high temperature with and without proton and VUV irradiations. <b>2014</b> , 314, 415-425		5
1641	Oxygen depth profiling with subnanometre depth resolution. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 337, 27-33	1.2	4
1640	An Analytical Model to Quantify Decay Chain Disequilibrium Application to the Thorium Decay Chain. <b>2014</b> , 61, 1414-1419		2
1639	Pd Nanoparticles deposited on nitrogen-doped HOPG: New Insights into the Pd-catalyzed Oxygen Reduction Reaction. <b>2014</b> , 141, 89-101		39
1638	Positron studies of interaction between yttrium atoms and vacancies in bcc iron with relevance for ODS nanoparticles formation. <b>2014</b> , 455, 398-401		8
1637	Thermoluminescent Properties of Undoped and Ce-Doped Lutetium Orthosilicate and Yttrium Orthosilicate Single Crystals and Single Crystalline Films Scintillators. <b>2014</b> , 61, 276-281		6
1636	Impact of bias conditions on performance degradation in SiGe HBTs irradiated by 10MeV Br ion. <b>2014</b> , 54, 2728-2734		2
1635	Solid state field-cycling NMR relaxometry: instrumental improvements and new applications. <b>2014</b> , 82, 39-69		84
1634	Investigation of gold nanoparticle radiosensitization mechanisms using a free radical scavenger and protons of different energies. <b>2014</b> , 59, 6431-43		55
1633	Hydrogen detection near surfaces and shallow interfaces with resonant nuclear reaction analysis. <b>2014</b> , 69, 196-295		88
1632	Study of the inter-strip gap effects on the response of Double Sided Silicon Strip Detectors using proton micro-beams. <b>2014</b> , 767, 99-111		14

1631	Deformation of nanoporous nanopillars by ion beam-induced bending. <b>2014</b> , 49, 5598-5605		18
1630	Profiling lithium distribution in Sn anode for lithium-ion batteries with neutrons. <b>2014</b> , 301, 277-284		20
1629	Application of alpha particle transport to the modelization of efficiency curves in proportional counters. <b>2014</b> , 302, 297-302		2
1628	Ion beam irradiation of ZnS dispersed in PMMA and its photocatalytic application. <b>2014</b> , 302, 819-824		3
1627	Influence of Light Ion Irradiation on the Current-Voltage Characteristics of Electrochemical Anodization of p-Type Silicon. <b>2014</b> , 161, E97-E103		1
1626	Defect accumulation in ThO <sub>2</sub> irradiated with swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 169-173	1.2	35
1625	Dependence of the thermoluminescent high-temperature ratio (HTR) of LiF:Mg,Ti detectors on proton energy and dose. <b>2014</b> , 71, 39-42		8
1624	Measurements and 3D Monte Carlo simulation of MeV ion transmission through conical glass capillaries. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 330, 11-17	1.2	20
1623	Measurement of the Half-Life of the T=12 Mirror Decay of Ne <sup>19</sup> and its Implication on Physics Beyond the Standard Model. <b>2014</b> , 112,		18
1622	Simulation of the characteristics of low-energy proton induced single event upset. <b>2014</b> , 57, 1902-1906		3
1621	Size-induced moment formation on isolated Fe atoms embedded in a nanocrystalline Ta matrix: Experiment and theory. <b>2014</b> , 89,		5
1620	Solid state detectors based on luminescent point defects in lithium fluoride for proton beam diagnostics. <b>2014</b> ,		
1619	Thoron detection with an active Radon exposure meter--first results. <b>2014</b> , 85, 022106		8
1618	Substrate-Dependent Effects on the Response of AlGa <sub>N</sub> /Ga <sub>N</sub> HEMTs to 2-MeV Proton Irradiation. <b>2014</b> , 35, 826-828		65
1617	Concurrent in situ ion irradiation transmission electron microscope. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 338, 56-65	1.2	82
1616	A solid target system with remote handling of irradiated targets for PET cyclotrons. <b>2014</b> , 94, 294-301		7
1615	Effects of helium implantation on the tensile properties and microstructure of Ni <sub>73</sub> P <sub>27</sub> metallic glass nanostructures. <b>2014</b> , 14, 5176-83		50
1614	Transmission Electron Microscope-Based Spectroscopy. <b>2014</b> , 231-244		2

1613	The excitation functions of (100)Mo(p,x)(99)Mo and (100)Mo(p,2n)(99m)Tc. <b>2014</b> , 94, 344-348		25
1612	Printing nearly-discrete magnetic patterns using chemical disorder induced ferromagnetism. <b>2014</b> , 14, 435-41		65
1611	Luminescence studies of 100 MeV Si <sup>8+</sup> ion irradiated nanocrystalline Y <sub>2</sub> O <sub>3</sub> . <b>2014</b> , 71, 518-523		12
1610	Effect of neutron irradiation on charge collection efficiency in 4H-SiC Schottky diode. <b>2014</b> , 735, 218-222		19
1609	Swift heavy ions induced surface modifications in Ag-polypyrrole composite films synthesized by an electrochemical route. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 323, 7-13	1.2	9
1608	The Dark Matter Time Projection Chamber 4Shooter directional dark matter detector: Calibration in a surface laboratory. <b>2014</b> , 755, 6-19		9
1607	Improved physics in SIMNRA 7. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 176-180	1.2	138
1606	Investigation of pyridine carboxylic acids in CM2 carbonaceous chondrites: Potential precursor molecules for ancient coenzymes. <b>2014</b> , 136, 1-12		34
1605	Dynamic microstructural evolution of graphite under displacing irradiation. <b>2014</b> , 68, 273-284		22
1604	Optical characterization and laser damage of fused silica optics after ion beam sputtering. <b>2014</b> , 125, 756-760		6
1603	Effect of swift heavy ion irradiation on single- and multiwalled carbon nanotubes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 33-36	1.2	12
1602	Temperature effects on the behavior of carbon 14 in nuclear graphite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 106-110	1.2	7
1601	Musett: A segmented Si array for Recoil-Decay-Tagging studies at VAMOS. <b>2014</b> , 747, 69-80		9
1600	Nuclear reaction analysis of Ge ion-implanted ZnO bulk single crystals: The evaluation of the displacement in oxygen lattices. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 11-14	1.2	
1599	Modelling of hydrogen isotope retention in the tungsten divertor of EAST during ELMy H-mode. <b>2014</b> , 89, 2214-2219		9
1598	Electronic stopping force of <sup>12</sup> C, <sup>28</sup> Si and <sup>63</sup> Cu ions in HfO <sub>2</sub> and SiO <sub>2</sub> dielectric films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 322, 54-58	1.2	9
1597	Under-response correction for EBT3 films in the presence of proton spread out Bragg peaks. <b>2014</b> , 30, 454-61		40
1596	Reflection and implantation of low energy helium with tungsten surfaces. <b>2014</b> , 447, 254-270		34

1595	Conceptual design and optimization of a plastic scintillator array for 2D tomography using a compact D-D fast neutron generator. <b>2014</b> , 86, 63-70		8
1594	Slow positron beam and nanoindentation study of irradiation-related defects in reactor vessel steels. <b>2014</b> , 451, 249-254		22
1593	Nonlinear refraction of lithium niobate crystal doped with different metal nanoparticles. <b>2014</b> , 123, 35-37		17
1592	On ion implantation and damage effect in Li <sub>2</sub> TiO <sub>3</sub> as a fusion breeder blanket: A technological approach for degradation testing. <b>2014</b> , 89, 1529-1533		8
1591	Measuring the fusion cross-section of light nuclei with low-intensity beams. <b>2014</b> , 743, 5-13		11
1590	Swift heavy ion irradiation-induced amorphization of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 145-149	1.2	19
1589	Fabrication of fine imaging devices using an external proton microbeam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 238-241	1.2	0
1588	Oxidation smoothening of silicon machined micro- and nano-scale structures. <b>2014</b> , 121, 156-161		3
1587	Temperature dependent formation of ZnO and Zn <sub>2</sub> SiO <sub>4</sub> nanoparticles by ion implantation and thermal annealing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 359-363	1.2	7
1586	Surface morphology and phase stability of titanium foils irradiated with 136MeV <sup>136</sup> Xe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 328, 78-83	1.2	5
1585	Application of slow positron beam for study of commercial oxide-dispersion-strengthened steels. <b>2014</b> , 450, 99-103		9
1584	Investigation of structural stability and magnetic properties of Fe/Ni multilayers irradiated by 300keV Fe <sup>10+</sup> . <b>2014</b> , 452, 31-36		17
1583	Raman study of damage extent in graphene nanostructures carved by high energy helium ion beam. <b>2014</b> , 72, 233-241		46
1582	Dosimetry measurements using Timepix in mixed radiation fields induced by heavy ions; comparison with standard dosimetry methods. <b>2014</b> , 55, i141-i142		3
1581	Self-irradiation and oxidation effects on americium sesquioxide and Raman spectroscopy studies of americium oxides. <b>2014</b> , 217, 159-168		10
1580	Room-temperature control of the residual stress gradient in titanium micro-cantilever beams by helium ion implantation. <b>2014</b> , 216, 116-122		6
1579	Effect of proton irradiation on the friction and wear properties of polyimide. <b>2014</b> , 316, 30-36		29
1578	Ion-beam-induced thin film stress in lithium niobate. <b>2014</b> , 47, 265302		5

1577	Numerical study of the effects of physical parameters on the dynamic fuel retention in tungsten materials. <b>2014</b> , 455, 111-115		5
1576	Continuous observation of polarization effects in thin SC-CVD diamond detector designed for heavy ion microbeam measurement. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 331, 113-116	1.2	20
1575	TOF SIMS characterization of SEI layer on battery electrodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 368-372	1.2	18
1574	Analysis of the background of the Jena <sup>14</sup> C-AMS facility. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 331, 238-242	1.2	3
1573	The LILIA (laser induced light ions acceleration) experiment at LNF. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 331, 15-19	1.2	14
1572	Proton irradiation effects on the precipitate in a Zr <sub>0.6</sub> Sn <sub>0.6</sub> Nb <sub>0.2</sub> Fe <sub>0.1</sub> Cr alloy. <b>2014</b> , 452, 335-342		30
1571	Emission channeling studies on transition-metal doped GaN and ZnO: Cation versus anion substitution. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 143-147	1.2	3
1570	Energy spectra and LET spectra of protons behind shielding. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 333, 46-51	1.2	8
1569	Structural dependence of threshold displacement energies in rutile, anatase and brookite TiO <sub>2</sub> . <b>2014</b> , 147, 311-318		27
1568	Kink Band Formation in Graphite under Ion Irradiation at 100 and 298 K. <b>2014</b> , 55, 447-450		5
1567	Irradiation Induced Chemical and Physical Effects in Silicones. <b>2014</b> , 75-84		2
1566	Carbon ion irradiation of the human prostate cancer cell line PC3: a whole genome microarray study. <b>2014</b> , 44, 1056-72		28
1565	ENMR of <sup>8</sup> Li <sup>+</sup> in rutile TiO <sub>2</sub> . <b>2014</b> , 551, 012032		2
1564	First Wall Particle Flux Measurements by an F82H Permeation Probe in QUEST. <b>2014</b> , 9, 3405041-3405041		3
1563	Current Status of Beryllium Materials for Fusion Blanket Applications. <b>2014</b> , 66, 28-37		21
1562	Vacancy defects study in Fe based alloys induced by irradiation under various conditions. <b>2014</b> , 505, 012007		2
1561	Direct Imaging of Cl <sup>-</sup> and Cu-Induced Short-Circuit Efficiency Changes in CdTe Solar Cells. <b>2014</b> , 4, 1400454		58
1560	MEASUREMENT OF <sup>230</sup> Pa AND <sup>186</sup> Re PRODUCTION CROSS SECTIONS INDUCED BY DEUTERONS AT ARRONAX FACILITY. <b>2014</b> , 27, 1460149		

1559	Toward site-specific dopant contrast in scanning electron microscopy. <b>2014</b> , 20, 1312-7		1
1558	Study on annealing effects of irradiated Ga <sub>0.5</sub> In <sub>0.5</sub> P/GaAs/Ge solar cell by 170 keV proton. <b>2014</b> ,		
1557	Tracking subsurface ion radiation damage with metal oxide semiconductor device encapsulation. <b>2015</b> , 30, 1413-1421		8
1556	The application of proton spectrometers at the SG-III facility for ICF implosion areal density diagnostics. <b>2015</b> , 3,		7
1555	Measurement of the angle, temperature and flux of fast electrons emitted from intense laser-solid interactions. <b>2015</b> , 81,		21
1554	Transmission electron microscopy with in situ ion irradiation. <b>2015</b> , 30, 1214-1221		11
1553	Examination of the impact of electron-phonon coupling on fission enhanced diffusion in uranium dioxide using classical molecular dynamics. <b>2015</b> , 30, 1485-1494		12
1552	In situ characterization of ion-irradiation enhanced creep of third generation Tyranno SA3 SiC fibers. <b>2015</b> , 30, 1572-1582		7
1551	Thermal conductivity measurements via time-domain thermoreflectance for the characterization of radiation induced damage. <b>2015</b> , 30, 1403-1412		37
1550	Characterization of ion-induced radiation effects in nuclear materials using synchrotron x-ray techniques. <b>2015</b> , 30, 1366-1379		27
1549	Electron Beam Effects during In-Situ Annealing of Self-Ion Irradiated Nanocrystalline Nickel. <b>2015</b> , 1809, 13-18		6
1548	Multi-Sampling Ionization Chamber (MUSIC) for measurements of fusion reactions with radioactive beams. <b>2015</b> , 799, 197-202		21
1547	Semi-empirical relationships for the energy loss and straggling of 150 keV hydrogen ions passing through thin carbon foils. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 359, 115-119	1.2	14
1546	Development of a new in-air micro-PIXE set-up with in-vacuum charge measurements in Atomki. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 362, 167-171	1.2	8
1545	Radiolytic corrosion of uranium dioxide induced by He <sup>2+</sup> localized irradiation of water: Role of the produced H <sub>2</sub> O <sub>2</sub> distance. <b>2015</b> , 467, 832-839		3
1544	Challenges to the use of ion irradiation for emulating reactor irradiation. <b>2015</b> , 30, 1158-1182		128
1543	Distribution of D1 dislocation luminescence centers in Si <sup>+</sup> -implanted silicon and the photoluminescence model. <b>2015</b> , 1, 33-37		1
1542	Production of scandium-44 m and scandium-44 g with deuterons on calcium-44: cross section measurements and production yield calculations. <b>2015</b> , 60, 6847-64		37



1541	IM3D: A parallel Monte Carlo code for efficient simulations of primary radiation displacements and damage in 3D geometry. <b>2015</b> , 5, 18130	36
1540	Electronic stopping power in a narrow band gap semiconductor from first principles. <b>2015</b> , 91,	40
1539	Threshold displacement energies in graphene and single-walled carbon nanotubes. <b>2015</b> , 92,	19
1538	Modification of Pt/Co/Pt film properties by ion irradiation. <b>2015</b> , 92,	8
1537	Phase transformations in Ln <sub>2</sub> O <sub>3</sub> materials irradiated with swift heavy ions. <b>2015</b> , 92,	32
1536	Energy-dependent fragmentation cross sections of relativistic C <sup>12</sup> . <b>2015</b> , 92,	21
1535	High-precision half-life measurements for the superallowed Fermi $\beta^+$ emitter Ne <sup>18</sup> . <b>2015</b> , 92,	13
1534	Hot fusion-evaporation cross sections of Sc <sup>45</sup> -induced reactions with lanthanide targets. <b>2015</b> , 92,	5
1533	Strengths of the resonances at 436, 479, 639, 661, and 1279 keV in the Ne <sup>22</sup> (p, $\gamma$ )Na <sup>23</sup> reaction. <b>2015</b> , 92,	21
1532	Hot fusion-evaporation cross sections of Ca <sup>44</sup> -induced reactions with lanthanide targets. <b>2015</b> , 92,	1
1531	Evidence for survival of the $\alpha$ -cluster structure in light nuclei through the fusion process. <b>2015</b> , 92,	9
1530	Sub-barrier radioactive ion beam investigations using a new methodology and analysis for the stacked target technique. <b>2015</b> , 92,	13
1529	Predictions for the energy loss of light ions in laser-generated plasmas at low and medium velocities. <b>2015</b> , 92, 053109	19
1528	Uniform heating of materials into the warm dense matter regime with laser-driven quasimonoenergetic ion beams. <b>2015</b> , 92, 063101	22
1527	Inverse Kinematic Study of the (26g)Al(d,p)(27)Al Reaction and Implications for Destruction of (26)Al in Wolf-Rayet and Asymptotic Giant Branch Stars. <b>2015</b> , 115, 062701	20
1526	Limit on Tensor Currents from $^8\text{Li}$ $\beta$ Decay. <b>2015</b> , 115, 182501	22
1525	Three New Low-Energy Resonances in the $^{22}\text{Ne}(p,\gamma)^{23}\text{Na}$ Reaction. <b>2015</b> , 115, 252501	42
1524	Collectivity in the light radon nuclei measured directly via Coulomb excitation. <b>2015</b> , 91,	8

1523	Non-Contact Measurement of Thermal Diffusivity in Ion-Implanted Nuclear Materials. <b>2015</b> , 5, 16042	59
1522	Nuclear model calculations on cyclotron production of <sup>51</sup> Cr. <b>2015</b> , 80, 569-574	1
1521	The plasma oxidation mechanism of Al coatings on Si substrates. <b>2015</b> , 4, 42-47	
1520	Degradation mechanisms of 2 MeV proton irradiated AlGaIn/GaN HEMTs. <b>2015</b> , 107, 083504	26
1519	Visualization of expanding warm dense gold and diamond heated rapidly by laser-generated ion beams. <b>2015</b> , 5, 14318	26
1518	On the Structural and Chemical Characteristics of Co/Al <sub>2</sub> O <sub>3</sub> /graphene Interfaces for Graphene Spintronic Devices. <b>2015</b> , 5, 14332	7
1517	Cryogenic micro-calorimeters for mass spectrometric identification of neutral molecules and molecular fragments. <b>2015</b> , 118, 104503	9
1516	From a non-magnet to a ferromagnet: Mn <sup>+</sup> implantation into different TiO <sub>2</sub> structures. <b>2015</b> , 107, 242405	12
1515	Radiation Defects Formed in Ion-Irradiated 316L Stainless Steel Model Alloys with Different Si Additions. <b>2015</b> , 56, 1549-1552	4
1514	Ion irradiation of the Murchison meteorite: Visible to mid-infrared spectroscopic results. <b>2015</b> , 577, A41	46
1513	Calibration of BAS-TR image plate response to high energy (3-300 MeV) carbon ions. <b>2015</b> , 86, 123302	22
1512	Ion-beam synthesis of GaN in silicon. <b>2015</b> , 643, 012082	2
1511	THz photomixers based on nitrogen-ion-implanted GaAs. <b>2015</b> , 118, 183102	2
1510	Elimination of carbon vacancies in 4H-SiC epi-layers by near-surface ion implantation: Influence of the ion species. <b>2015</b> , 118, 175701	23
1509	Self-organized titanium oxide nano-channels for resistive memory application. <b>2015</b> , 118, 224903	19
1508	Molecular dynamics simulation of radiation damage cascades in diamond. <b>2015</b> , 117, 245901	21
1507	Spectroscopic properties and radiation damage investigation of a diamond based Schottky diode for ion-beam therapy microdosimetry. <b>2015</b> , 118, 184503	20
1506	Photoluminescence of radiation-induced color centers in lithium fluoride thin films for advanced diagnostics of proton beams. <b>2015</b> , 106, 261108	24

1505	Single proton counting at the RIKEN cell irradiation facility. <b>2015</b> , 86, 085103		1
1504	Tuned NV emission by in-plane Al-Schottky junctions on hydrogen terminated diamond. <b>2014</b> , 4, 3634		31
1503	The effect of irradiation with H <sup>+</sup> and Ne <sup>+</sup> ions on resistive switching in metal-insulator-metal memristive structures based on SiO <sub>x</sub> . <b>2015</b> , 41, 957-960		1
1502	DPA damage analysis for 14-MeV neutrons on PFC materials. <b>2015</b> , 66, 1841-1844		
1501	Damage buildup in Ar-ion-irradiated 3C-SiC at elevated temperatures. <b>2015</b> , 118, 105705		14
1500	Direct Depth- and Lateral- Imaging of Nanoscale Magnets Generated by Ion Impact. <b>2015</b> , 5, 16786		29
1499	Instability of Ferromagnetic Nanoclusters in Fe Implanted Amorphous SiO <sub>2</sub> . <b>2015</b> , 75, 565-571		2
1498	Thermal decomposition and desorption of PFPE Zdol on a DLC substrate using quartic bond interaction potential. <b>2015</b> , 5, 69651-69659		1
1497	Direct measurement of neon production rates by (p,n) reactions in minerals. <b>2015</b> , 148, 130-144		9
1496	Energy loss and straggling of 180 keV H, He, C, N, and O ions passing through few layer graphene. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 358, 223-228	1.2	4
1495	Swift heavy ion modifications of astrophysical water ice. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 472-476	1.2	16
1494	Track Reconstruction Progress from the DMTPC Directional Dark Matter Experiment. <b>2015</b> , 61, 39-44		6
1493	Argon diffusion in Apollo 16 impact glass spherules: Implications for <sup>40</sup> Ar/ <sup>39</sup> Ar dating of lunar impact events. <b>2015</b> , 148, 251-268		14
1492	A dedicated AMS setup for <sup>53</sup> Mn/ <sup>60</sup> Fe at the Cologne FN tandem accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 361, 95-99	1.2	4
1491	A detection system for charged-particle decay studies with a continuous-implantation method. <b>2015</b> , 804, 1-7		18
1490	Swift heavy ion irradiation and annealing studies on the IV characteristics of N-channel depletion MetaloxideSemiconductor field-effect transistors. <b>2015</b> , 89, 943-950		1
1489	Reference-free, depth-dependent characterization of nanolayers and gradient systems with advanced grazing incidence X-ray fluorescence analysis. <b>2015</b> , 212, 523-528		15
1488	Impact of Swift Heavy Ions and Gamma Radiation upon Optical, Structural, and Chemical Properties of Polypropylene Polymer Films. <b>2015</b> , 34, n/a-n/a		2

- 1487 Influence of ion irradiation on the resistive switching parameters of SiO<sub>x</sub>-based thin-film structures. **2015**, 643, 012094 2
- 1486 Synthesis of Layer-Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach. **2015**, 25, 3666-3675 38
- 1485 Ion-Beam Deposition/Etching Using EMIM-N(CN)<sub>2</sub> Ionic Liquid Ion Source. **2015**, 40, 87-90 2
- 1484 Characterization of the ion-amorphization process and thermal annealing effects on third generation SiC fibers and 6H-SiC. **2015**, 1, 8 9
- 1483 Fabrication of Microstructures Embedded in SC-CVD Diamond with a Focused Proton Microbeam. **2015**, 643, 15-19
- 1482 A Comparative Study of the Effects of Oxygen Ions Upon the Free Volume and Physico-Chemical Properties of Makrofol (KG & N) Polycarbonate. **2015**, 357, 86-98
- 1481 Nanostructuring graphene by dense electronic excitation. **2015**, 26, 465302 31
- 1480 Krypton ion irradiation-induced amorphization and nano-crystal formation in pyrochlore Lu<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub> at room temperature. **2015**, 24, 126103 7
- 1479 Water radiolysis with heavy-ion beams at GANIL. Back to 20 years of investigations. **2015**, 629, 012009 1
- 1478 Transient and Post-irradiation Response of Optoelectronic Devices to Ionizing Radiation. **2015**, 574, 012019 1
- 1477 Monte Carlo simulation of prompt  $\gamma$ -ray emission in proton therapy using a specific track length estimator. **2015**, 60, 8067-86 6
- 1476 Near Surface Changes Due to 700keV Si<sup>+</sup> Irradiation of Titanium Silicon Carbide. **2015**, 98, 4050-4057 6
- 1475 Effect of irradiation by He<sup>+</sup> and Ga<sup>+</sup> ions on the 2D-exciton susceptibility of InGaAs/GaAs quantum-well structures. **2015**, 252, 1950-1954 8
- 1474 Direct Observation of Li-Ion Transport in Electrodes under Nonequilibrium Conditions Using Neutron Depth Profiling. **2015**, 5, 1500498 65
- 1473 Cellular localization of uranium in the renal proximal tubules during acute renal uranium toxicity. **2015**, 35, 1594-600 24
- 1472 In situ E-SEM and TEM observations of the thermal annealing effects on ion-amorphized 6H-SiC single crystals and nanophased SiC fibers. **2015**, 252, 149-152 6
- 1471 Scanning reflection ion microscopy in a helium ion microscope. **2015**, 6, 1125-37 9
- 1470 Ion Preparation Systems for Low-Energy Experiments at SLOWRI. **2015**,

- 1469 Investigating energy dissipation through nucleon transfer reactions. **2015**, 91, 00010
- 1468 S-Factor measurement of the  $^{12}\text{C}(p, \text{n})^{13}\text{N}$  reaction in inverse kinematics. **2015**, 93, 03012 2
- 1467 A laboratory study of ion-induced erosion of ice-covered carbon grains. **2015**, 575, A76 15
- 1466 Ion implantation for manufacturing bent and periodically bent crystals. **2015**, 107, 064102 7
- 1465 In-situ observation and atomic resolution imaging of the ion irradiation induced amorphisation of graphene. **2014**, 4, 6334 49
- 1464 Relating surface chemistry and oxygen surface exchange in  $\text{LnBaCo}_2\text{O}_{(5+\delta)}$  air electrodes. **2015**, 182, 145-57 27
- 1463 Calibration of modified Liulin detector for cosmic radiation measurements on-board aircraft. **2015**, 164, 489-92 2
- 1462 Performance of timing Resistive Plate Chambers with protons from 200 to 800 MeV. **2015**, 10, C01043-C010436
- 1461 Creation of Blue Light Emitting Color Centers in Nanosized Diamond for Different Applications. **2015**, 93-101 1
- 1460 Cyclotron production of  $(^{44}\text{Sc})$ : From bench to bedside. **2015**, 42, 745-51 66
- 1459 Sputtering of cubic metal crystals by low-energy xenon-ions. **2015**, 107, 102-109 3
- 1458 Determination of deuteron characteristic channeling parameters by simulation of RBS spectrum along Si. **2015**, 79, 19-23 1
- 1457 Impact of Radiation on Electronics. **2015**, 79-111
- 1456 Dilute ferromagnetic semiconductors prepared by the combination of ion implantation with pulse laser melting. **2015**, 48, 263001 17
- 1455 On the influence of etch pits in the overall dissolution rate of apatite basal sections. **2015**, 42, 629-640 2
- 1454 Soft proton scattering efficiency measurements on x-ray mirror shells. **2015**, 39, 343-365 15
- 1453 Development of neutron depth profiling at CMRR. **2015**, 788, 1-4 7
- 1452 Fabrication of hard-coated optical absorbers with microstructured surfaces using etched ion tracks: Toward broadband ultra-low reflectance. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 356-357, 154-159 1.2 8

1451	Nanomechanical and in situ TEM characterization of boron carbide thin films on helium implanted substrates: Delamination, real-time cracking and substrate buckling. <b>2015</b> , 639, 54-64		6
1450	Simulations of the fission-product stopping efficiency in IGISOL. <b>2015</b> , 51, 1		17
1449	Synchrotron x-ray diffraction analysis of gadolinium and lanthanum titanate oxides irradiated by xenon and tantalum swift heavy ions. <b>2015</b> , 1743, 26		2
1448	Decay properties of the new isotope U216. <b>2015</b> , 91,		24
1447	On radiation damage in FIB-prepared softwood samples measured by scanning X-ray diffraction. <b>2015</b> , 22, 267-72		4
1446	Dark Current Spectroscopy on Alpha Irradiated CMOS Image Sensors. <b>2015</b> ,		2
1445	3D Silicon Microdosimetry and RBE Study Using $^{12}\text{C}$ Ion of Different Energies. <b>2015</b> , 62, 3027-3033	28	
1444	Post-acceleration of laser-induced ion beams. <b>2015</b> , 170, 290-302		1
1443	Charge Collection Mechanisms of Ge-Channel Bulk $\text{p}$ MOSFETs. <b>2015</b> , 62, 2725-2731		7
1442	SEU Rate in Avionics: From Sea Level to High Altitudes. <b>2015</b> , 62, 3369-3380		7
1441	Comparative Response of Microchannel Plate and Channel Electron Multiplier Detectors to Penetrating Radiation in Space. <b>2015</b> , 62, 2283-2293		8
1440	Effect of recrystallization on ion-irradiation hardening and microstructural changes in 15Cr-ODS steel. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 313-318	1.2	12
1439	Focused ion-beam writing of channel waveguides in bismuth germanate crystal for telecommunication bands. <b>2015</b> , 54, 057108		2
1438	Thermal annealing behavior of $\text{Al}_2\text{O}_3$ scintillation screens. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 548-552	1.2	3
1437	Stability of Silicon Carbide Particle Detector Performance at Elevated Temperatures. <b>2015</b> , 62, 2360-2366		13
1436	Electron multiplication CCD detector technology advancement for the WFIRST-AFTA coronagraph. <b>2015</b> ,		1
1435	H trapping and mobility in nanostructured tungsten grain boundaries: a combined experimental and theoretical approach. <b>2015</b> , 55, 113009		25
1434	Modifications in optical and electrical properties of selenium nanowire arrays using ion beam irradiation. <b>2015</b> , 121, 571-579		6

1433	Effect of simultaneous helium implantation on the microstructure evolution of Inconel X-750 superalloy during dual-beam irradiation. <b>2015</b> , 95, 3933-3949	6
1432	. <b>2015</b> ,	
1431	A study of the CR-39 track detector sensitivity to heavy charged particles of space radiation. <b>2015</b> , 58, 794-798	3
1430	Defect recovery and damage reduction in borosilicate glasses under double ion beam irradiation. <b>2015</b> , 112, 36002	29
1429	Characterisation of Defects in ZnO Implanted by Hydrogen. <b>2015</b> , 365, 49-54	
1428	. <b>2015</b> , 62, 2912-2918	20
1427	Micro- and nano-scale damage on the surface of W divertor component during exposure to high heat flux loads with He. <b>2015</b> , 466, 357-361	4
1426	Comparison of irradiated and hydrogen implanted German RPV steels using PAS technique. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 222-224	1.2 2
1425	Reprint of: Determination of deuteron characteristic channeling parameters by simulation of RBS spectrum along Si . <b>2015</b> , 83, 68-72	
1424	Depth-Resolved Imaging of Radiation-Induced Doping Changes in Silicon. <b>2015</b> , 4, P462-P467	3
1423	Determination of migration of ion-implanted Ar and Zn in silica by backscattering spectrometry. <b>2015</b> , 170, 229-237	3
1422	Interface effect in pentacene field-effect transistors from high energy proton beam irradiation. <b>2015</b> , 27, 240-246	6
1421	Sub-Micron Resolution of Localized Ion Beam Induced Charge Reduction in Silicon Detectors Damaged by Heavy Ions. <b>2015</b> , 62, 2919-2925	1
1420	The solution of the positron diffusion trapping model tested for profiling of defects induced by proton implanted in stainless steel. <b>2015</b> , 121, 289-295	9
1419	Spatially dependent cluster dynamics model of He plasma surface interaction in tungsten for fusion relevant conditions. <b>2015</b> , 55, 013014	24
1418	An intermetallic forming steel under radiation for nuclear applications. <b>2015</b> , 458, 361-368	8
1417	The influence of cross-linking and clustering upon the nanohole free volume of the SHI and $\gamma$ radiation induced polymeric material. <b>2015</b> , 328, 482-490	20
1416	Compaction of porous ices rich in water by swift heavy ions. <b>2015</b> , 250, 222-229	34

1415	Effective implantation of light emitting centers by plasma immersion ion implantation and focused ion beam methods into nanosized diamond. <b>2015</b> , 328, 577-582		10
1414	Determination of energy loss of 1200 keV deuterons along axial and planar channels of Si. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 345, 9-14	1.2	3
1413	Helium bubble formation in ultrafine and nanocrystalline tungsten under different extreme conditions. <b>2015</b> , 458, 216-223		100
1412	Defective Solid-Phase Epitaxial Growth of Si. <b>2015</b> , 123-163		1
1411	In situ measurements of a homogeneous to heterogeneous transition in the plastic response of ion-irradiated <1 1 1> Ni microspecimens. <b>2015</b> , 88, 121-135		23
1410	Ion-irradiation-induced clustering in WBe and WBeOs alloys: A comparative study using atom probe tomography and nanoindentation measurements. <b>2015</b> , 87, 121-127		95
1409	Production of medical isotopes from a thorium target irradiated by light charged particles up to 70 MeV. <b>2015</b> , 60, 931-46		22
1408	Proton beam lithography in negative tone liquid phase PDMS polymer resist. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 213-217	1.2	8
1407	Role of developing L10chemical order on the (0 0 1)-texture formation of (Fe1 xCux)Pt films grown on amorphous substrates. <b>2015</b> , 48, 085001		5
1406	Ion implantation for isolation of AlGaN/GaN HEMTs using C or Al. <b>2015</b> , 212, 1162-1169		22
1405	Stopping force of Ti for 6 Z ? 29 ions measured by time of flight spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 349, 1-5	1.2	6
1404	Sensitivity changes of LiF:Mg,Ti and LiF:Mg,Cu,P TL detectors after proton exposures. <b>2015</b> , 74, 26-30		5
1403	Fabrication of three-dimensional SU-8 microchannels by proton beam writing for microfluidics applications: Fluid flow characterisation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 223-228	1.2	7
1402	Influence of SHI upon nanohole free volume and micro scale level surface modifications of polyethyleneterephthalate polymer films. <b>2015</b> , 337, 19-26		18
1401	Ion beam irradiation of nanostructures: sputtering, dopant incorporation, and dynamic annealing. <b>2015</b> , 30, 033001		40
1400	Ion Beam Analysis for the provenance attribution of lapis lazuli used in glyptic art: The case of the Collezione Medicea. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 278-284	1.2	20
1399	Generation of ensembles of individually resolvable nitrogen vacancies using nanometer-scale apertures in ultrahigh-aspect ratio planar implantation masks. <b>2015</b> , 15, 1751-8		33
1398	Characterization of the RisTL/OSL DA-20 reader for application in TL dosimetry. <b>2015</b> , 74, 1-5		18



1397	Identification of photoluminescence P line in indium doped silicon as InSi-Sii defect. <b>2015</b> , 5, 017101		3
1396	Three-dimensional micro/nano-scale structure fabricated by combination of non-volatile polymerizable RTIL and FIB irradiation. <b>2014</b> , 4, 3722		20
1395	Realization of a diamond based high density multi electrode array by means of Deep Ion Beam Lithography. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 199-202	1.2	17
1394	Redox response of actinide materials to highly ionizing radiation. <b>2015</b> , 6, 6133		64
1393	Investigation of in-depth and surface properties of polyethyleneterephthalate thin films after SHI and gamma radiation treatment by means of PALS and AFM studies. <b>2015</b> , 115, 31-38		12
1392	Focused particle beam nano-machining: the next evolution step towards simulation aided process prediction. <b>2015</b> , 26, 050501		1
1391	Calculations and measurements of the scintillator-to-water stopping power ratio of liquid scintillators for use in proton radiotherapy. <b>2015</b> , 776, 15-20		5
1390	Experimental and computational techniques for the analysis of proton beam propagation through a target stack. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 345, 48-52	1.2	5
1389	Non-crystallization and enhancement of field emission of cupric oxide nanowires induced by low-energy Ar ion bombardment. <b>2015</b> , 329, 94-103		10
1388	Spectroscopy of surface-induced noise using shallow spins in diamond. <b>2015</b> , 114, 017601		136
1387	Studies of dense electronic excitation-induced modification in crystalline Fe-doped SnO <sub>2</sub> thin films. <b>2015</b> , 332, 726-735		25
1386	Raman Scattering in Natural Diamond Crystals Implanted with High-Energy Ions and Irradiated with Fast Neutrons. <b>2015</b> , 81, 969-977		9
1385	Atomistic modeling of radiation-induced disordering and dissolution at a Ni/Ni <sub>3</sub> Al interface. <b>2015</b> , 30, 1456-1463		10
1384	Accurate Monte Carlo modeling of cyclotrons for optimization of shielding and activation calculations in the biomedical field. <b>2015</b> , 116, 231-236		18
1383	Cryo-focused-ion-beam applications in structural biology. <b>2015</b> , 581, 122-30		76
1382	Ion-induced temperature rise in various types of insulators. <b>2015</b> , 170, 183-191		2
1381	Spontaneous formation of superconducting NiBi <sub>3</sub> phase in Ni-Bi bilayer films. <b>2015</b> , 117, 083902		18
1380	Nitrogen mass transfer models for plasma-based low-energy ion implantation. <b>2015</b> , 33, 021311		2

1379	Radiation effects on microstructure and hardness of a titanium aluminide alloy irradiated by helium ions at room and elevated temperatures. <b>2015</b> , 459, 284-290		11
1378	Performance Study of an Integrated $\Delta E$ Silicon Detector Telescope using the Lohengrin Fission Fragment Separator at ILL, Grenoble. <b>2015</b> , 62, 264-271		2
1377	In-situ TEM/heavy ion irradiation on ultrafine-and nanocrystalline-grained tungsten: Effect of 3 MeV Si, Cu and W ions. <b>2015</b> , 99, 68-76		40
1376	The first interdisciplinary experiments at the IMP high energy microbeam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 18-22	1.2	4
1375	Geometric optimization of a neutron detector based on a lithium glass-polymer composite. <b>2015</b> , 784, 168-171		20
1374	Lattice swelling and modulus change in a helium-implanted tungsten alloy: X-ray micro-diffraction, surface acoustic wave measurements, and multiscale modelling. <b>2015</b> , 89, 352-363		101
1373	TDPAC studies of interaction between He and A = 140 elements in Fe. <b>2015</b> , 230, 187-193		
1372	Investigation of EBT2 and EBT3 films for proton dosimetry in the 4-20 MeV energy range. <b>2015</b> , 54, 71-79		37
1371	Deposition of CVD diamond onto Zirconium. <b>2015</b> , 1734, 13		
1370	Mechanisms of material removal and mass transport in focused ion beam nanopore formation. <b>2015</b> , 117, 085304		8
1369	Application of PIGE, BS and NRA techniques to oxygen profiling in steel joints using deuteron beam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 165-169	1.2	8
1368	Radiation tolerance of nanocrystalline ceramics: insights from Yttria Stabilized Zirconia. <b>2015</b> , 5, 7746		56
1367	Benchmark measurements of non-Rutherford proton elastic scattering cross section for boron. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 343, 70-76	1.2	11
1366	Selective etching of focused gallium ion beam implanted regions from silicon as a nanofabrication method. <b>2015</b> , 26, 265304		5
1365	Measurement of $^{23}\text{Na}(p, \alpha)^{20}\text{Ne}$ at Energies Relevant to $^{26}\text{Al}$ Production in Massive Stars. <b>2015</b> , 115, 052702		11
1364	Precipitate stability in Cu-Al-Ni system under high-temperature irradiation. <b>2015</b> , 97, 348-356		19
1363	Characterization of ion-irradiated ODS Fe-Cr alloys by doppler broadening spectroscopy using a positron beam. <b>2015</b> , 464, 140-146		14
1362	The influence of ion beam rastering on the swelling of self-ion irradiated pure iron at 450 °C. <b>2015</b> , 465, 343-348		61

1361	Defects induced ferromagnetism in hydrogen irradiated 3CβiC thin films. <b>2015</b> , 156, 54-57	6
1360	Irradiation-induced structural transitions in Ti2AlC. <b>2015</b> , 98, 197-205	42
1359	Surface structural changes, surface energy and antiwear properties of polytetrafluoroethylene induced by proton irradiation. <b>2015</b> , 85, 162-168	16
1358	Influence of the interface on the magnetic properties of NiZn ferrite thin films treated by proton irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 358, 1-5	1.2 1
1357	Scintillation efficiency for low energy nuclear recoils in liquid xenon dark matter detectors. <b>2015</b> , 61, 56-61	8
1356	Radon backgrounds in the DEAP-1 liquid-argon-based Dark Matter detector. <b>2015</b> , 62, 178-194	17
1355	The radiation stability of glycine in solid CO2 In situ laboratory measurements with applications to Mars. <b>2015</b> , 252, 466-472	11
1354	Mn fraction substitutional site and defects induced magnetism in Mn-implanted 6H-SiC. <b>2015</b> , 632, 760-765	10
1353	Effects of non-amorphizing hydrogen ion implantation on anisotropy in micro cutting of silicon. <b>2015</b> , 225, 439-450	35
1352	Dynamic fuel retention in tokamak wall materials: An in situ laboratory study of deuterium release from polycrystalline tungsten at room temperature. <b>2015</b> , 467, 432-438	30
1351	Copper thin films by ion beam assisted deposition: Strong texture, superior thermal stability and enhanced hardness. <b>2015</b> , 98, 17-28	23
1350	An RF-only ion-funnel for extraction from high-pressure gases. <b>2015</b> , 379, 110-120	23
1349	Studies of dense electronic excitation induced modification in cobalt doped SnO2 thin films prepared by RF sputtering technique. <b>2015</b> , 648, 550-558	19
1348	Use of proton elastic scattering techniques to determine carbonaceous fractions in atmospheric aerosols collected on Teflon filters. <b>2015</b> , 89, 85-95	9
1347	Effects of fluence and fluence rate of proton irradiation upon magnetism in Fe65Ni35 Invar alloy. <b>2015</b> , 394, 491-495	2
1346	Depth-Resolved Structural and Compositional Characterization of Ion-Implanted Polystyrene that Enables Direct Covalent Immobilization of Biomolecules. <b>2015</b> , 119, 16793-16803	17
1345	Proton-induced direct and indirect damage of plasmid DNA. <b>2015</b> , 54, 343-52	30
1344	Particle-Based Imaging Techniques. <b>2015</b> , 69, 315-337	5

1343	Helium bubble evolution in a ZrNbBeCr alloy during post-annealing: An in-situ investigation. <b>2015</b> , 107, 309-316		10
1342	Temperature dependence of helium-implantation-induced lattice swelling in polycrystalline tungsten: X-ray micro-diffraction and Eigenstrain modelling. <b>2015</b> , 107, 96-99		28
1341	Resonance parameters of the reaction $^{12}\text{C}(d,p)^{13}\text{C}$ in the vicinity of 1450 keV for accelerator energy calibration. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 342, 184-187	1.2	2
1340	Equilibrium and non-equilibrium charge-state distributions of 2.0 MeV/u carbon ions passing through carbon foils. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 354, 172-176	1.2	12
1339	Ion beam effects of 26.0 MeV Cu <sup>7+</sup> ions in thin metallic and insulating films during Heavy Ion ERDA measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 349, 79-84	1.2	
1338	On the traceably accurate voltage calibration of electrostatic accelerators. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 349, 173-183	1.2	25
1337	Development of additive [ <sup>11</sup> C]CO <sub>2</sub> target system in the KOTRON-13 cyclotron and its application for [ <sup>11</sup> C]radiopharmaceutical production. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 356-357, 1-7	1.2	5
1336	Palladium contamination in silicon. <b>2015</b> , 106, 68-77		1
1335	An integrated time-of-flight versus residual energy subsystem for a compact dual ion composition experiment for space plasmas. <b>2015</b> , 86, 054501		5
1334	In situ defect annealing of swift heavy ion irradiated CeO <sub>2</sub> and ThO <sub>2</sub> using synchrotron X-ray diffraction and a hydrothermal diamond anvil cell. <b>2015</b> , 48, 711-717		22
1333	Role of the $\frac{9}{2}$ orbital in the development of collectivity in the A <sub>80</sub> region: The case of Co <sup>61</sup> . <b>2015</b> , 91,		5
1332	Nuclear model calculation and targetry recipe for production of <sup>110</sup> mIn. <b>2015</b> , 104, 60-6		3
1331	Cross-section scaling for track structure simulations of low-energy ions in liquid water. <b>2015</b> , 166, 15-8		10
1330	Neutralization and wake effects on the Coulomb explosion of swift H <sub>2</sub> <sup>+</sup> ions traversing thin films. <b>2015</b> , 91,		6
1329	Maximum likelihood analysis of low energy CDMS II germanium data. <b>2015</b> , 91,		8
1328	Giant-planet chemistry: Ammonium hydrosulfide (NH <sub>4</sub> SH), its IR spectra and thermal and radiolytic stabilities. <b>2015</b> , 258, 181-191		13
1327	Molecular-dynamics simulation of threshold displacement energies in BaTiO <sub>3</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 358, 142-145	1.2	7
1326	Radiochromic film diagnostics for laser-driven ion beams. <b>2015</b> ,		3

1325	Radiation effects in Zr and Hf containing garnets. <b>2015</b> , 462, 508-513		3
1324	Decomposition and CO <sub>2</sub> evolution of an aliphatic polymer under bombardment with high energy heavy ions. <b>2015</b> , 119, 132-138		0
1323	Response of GaN to energetic ion irradiation: conditions for ion track formation. <b>2015</b> , 48, 325304		32
1322	Disassembly time of deuterium-cluster-fusion plasma irradiated by an intense laser pulse. <b>2015</b> , 92, 013102		8
1321	Nanoscale $\mu$ nuclear magnetic resonance depth imaging of topological insulators. <b>2015</b> , 112, E3645-50		15
1320	Response of Gd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> and La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> to swift-heavy ion irradiation and annealing. <b>2015</b> , 93, 1-11		43
1319	Fabrication of porous silicon based tunable distributed Bragg reflectors by anodic etching of irradiated silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 358, 105-111	1.2	9
1318	Improved calibration of mass stopping power in low density tissue for a proton pencil beam algorithm. <b>2015</b> , 60, 4243-61		6
1317	Improving Room-Temperature Ferromagnetism in Mn-Implanted Si by High-Temperature Annealing. <b>2015</b> , 51, 1-4		
1316	Atomic-scale thermocapillary flow in focused ion beam milling. <b>2015</b> , 27, 052003		2
1315	p-type conduction in Zn-ion implanted InN films. <b>2015</b> , 48, 215102		2
1314	Research on anisotropy of fusion-produced protons and neutrons emission from high-current plasma-focus discharges. <b>2015</b> , 86, 013502		5
1313	Note: fast neutron efficiency in CR-39 nuclear track detectors. <b>2015</b> , 86, 036103		5
1312	The local environment of cobalt in amorphous, polycrystalline and epitaxial anatase TiO <sub>2</sub> :Co films produced by cobalt ion implantation. <b>2015</b> , 117, 183901		15
1311	Development and characterization of a diamond-insulated graphitic multi electrode array realized with ion beam lithography. <b>2014</b> , 15, 515-28		19
1310	Elemental distribution and sample integrity comparison of freeze-dried and frozen-hydrated biological tissue samples with nuclear microprobe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 147-151	1.2	24
1309	The role of ion-neutral collisions in Titan's magnetospheric interaction. <b>2015</b> , 108, 73-86		10
1308	Irradiation-induced formation of a spinel phase at the FeCr/MgO interface. <b>2015</b> , 93, 87-94		7

1307	Electroluminescence from a diamond device with ion-beam-micromachined buried graphitic electrodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 187-190	1.2	10
1306	Reduced plasma-induced damage to near-surface nitrogen-vacancy centers in diamond. <b>2015</b> , 15, 2887-91		27
1305	Temperature-dependent electrical characterization of high-voltage AlGaIn/GaN-on-Si HEMTs with Schottky and ohmic drain contacts. <b>2015</b> , 111, 12-17		15
1304	Proton irradiation energy dependence of defect formation in graphene. <b>2015</b> , 344, 52-56		18
1303	The SPIDER fission fragment spectrometer for fission product yield measurements. <b>2015</b> , 788, 59-66		26
1302	Simulation of particle impact on protective coating of high-level waste storage packages. <b>2015</b> , 81, 196-202		2
1301	Ion beam induced fluorescence imaging in biological systems. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 131-136	1.2	6
1300	Displacement cross sections of electron irradiated graphene and carbon nanotubes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 350, 20-25	1.2	5
1299	A comparison of 100 MeV oxygen ion and 60Co gamma irradiation effects on advanced 200 GHz SiGe heterojunction bipolar transistors. <b>2015</b> , 89, 789-796		4
1298	3-D tracking in a miniature time projection chamber. <b>2015</b> , 788, 95-105		16
1297	Formation of donor centers upon the annealing of silicon light-emitting structures implanted with oxygen ions. <b>2015</b> , 49, 406-408		1
1296	Further improvement for 10Be measurement on an upgraded compact AMS radiocarbon facility. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 361, 178-182	1.2	1
1295	Structural manipulation in Ge by swift heavy ions governed by electron-phonon coupling strength. <b>2015</b> , 2, 045903		10
1294	Ion implantation induced phase transformation and enhanced crystallinity of as deposited copper oxide thin films by pulsed laser deposition. <b>2015</b> , 84, 24-35		13
1293	Accurate electronics calibration for particle backscattering spectrometry. <b>2015</b> , 7, 3096-3104		15
1292	Certified ion implantation fluence by high accuracy RBS. <b>2015</b> , 140, 3251-61		14
1291	Influence of the physical data to calibrate TEPCs. <b>2015</b> , 166, 238-41		2
1290	Antibacterial properties of Au doped polycarbonate synthesized by gamma radiation assisted diffusion method. <b>2015</b> , 112, 97-103		11

1289	Effect of helium ion beam treatment on the etching rate of silicon nitride. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 349, 90-95	1.2	7
1288	Heavy ion irradiation of crystalline water ice. <b>2015</b> , 576, A125		53
1287	Effects of crystallographic plane and co-deposited element on the growth of ion-sputter induced Si nano-cone arrays: a mechanism study. <b>2015</b> , 119, 1033-1038		3
1286	Experimental and Monte Carlo study on production of $^{110}\text{mIn}$ via $\text{natCd}(p,xn)$ reaction. <b>2015</b> , 306, 423-427		3
1285	Single atom devices by ion implantation. <b>2015</b> , 27, 154204		50
1284	3D mapping of lithium in battery electrodes using neutron activation. <b>2015</b> , 287, 226-230		14
1283	Thermoluminescence of sol-gel derived $\text{Y}_2\text{O}_3:\text{Nd}^{3+}$ nanophosphor exposed to 100MeV $\text{Si}^{8+}$ ions and gamma rays. <b>2015</b> , 637, 564-573		23
1282	A multiphase interfacial model for the dissolution of spent nuclear fuel. <b>2015</b> , 462, 135-146		11
1281	Hyperdoping silicon with selenium: solid vs. liquid phase epitaxy. <b>2015</b> , 5, 8329		39
1280	A comparison between the codes SRIM and AlfaMC in the Monte Carlo simulation of alpha-particle backscattering. <b>2015</b> , 305, 479-485		1
1279	Coatings synthesised by the pulsed laser ablation of a $\text{B}_4\text{C}/\text{W}_2\text{B}_5$ ceramic composite. <b>2015</b> , 593, 5-9		5
1278	Impact of implanted phosphorus on the diffusivity of boron and its applicability to silicon solar cells. <b>2015</b> , 118, 045702		2
1277	Swift heavy ion irradiation damage in $\text{TiBAl}_4\text{V}$ and $\text{TiBAl}_4\text{V}_2\text{B}$ : Study of the microstructure and mechanical properties. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 515-521	1.2	6
1276	Dynamics of Atomic Clusters Under Intense Femtosecond Laser Pulses. <b>2015</b> , 65-87		
1275	Nanometer-scale isotope analysis of bulk diamond by atom probe tomography. <b>2015</b> , 60, 60-65		7
1274	On the use of averaging stopping power of recoiled nuclei for determining maximum neutron energy of $^{241}\text{AmBe}$ by superheated drop detectors. <b>2015</b> , 83, 31-35		2
1273	New recoil transfer chamber for thermalization of heavy ions produced in fusion-evaporation reactions. <b>2015</b> , 798, 52-61		1
1272	In situ TEM observation of helium bubble evolution in $\text{V}/\text{Ag}$ multilayer during annealing. <b>2015</b> , 467, 537-543		19

1271	Optimization of a Low Noise Detection Circuit for Probing the Structure of Damage Cascades with IBIC. <b>2015</b> , 66, 561-567	
1270	Multiphase Structure of Tantalum Oxynitride TaOxNy Thin Films Deposited by Reactive Magnetron Sputtering. <b>2015</b> , 119, 23559-23571	23
1269	Surface damage and mechanical properties degradation of Cr/W multilayer films irradiated by Xe <sup>20+</sup> . <b>2015</b> , 357, 1225-1230	15
1268	Fabrication of Thermoresponsive Nanoactinia Tentacles by a Single Particle Nanofabrication Technique. <b>2015</b> , 31, 11692-700	9
1267	The Efficiency of Hydrogen-Doping as a Function of Implantation Temperature. <b>2015</b> , 242, 175-183	
1266	Thin-Film Gallium Antimonide for Room-Temperature Radiation Detection. <b>2015</b> , 44, 3288-3293	3
1265	Active charge state control of single NV centres in diamond by in-plane Al-Schottky junctions. <b>2015</b> , 5, 12160	45
1264	Effect of Ar <sup>+</sup> ion irradiation on the microstructure of pyrolytic carbon. <b>2015</b> , 117, 115101	7
1263	Radiation tolerant nanocrystalline ZrN films under high dose heavy-ion irradiations. <b>2015</b> , 117, 145901	17
1262	Suppression of spin pumping between Ni <sub>80</sub> Fe <sub>20</sub> and Cu by a graphene interlayer. <b>2015</b> , 117, 213907	5
1261	Time constant of defect relaxation in ion-irradiated 3C-SiC. <b>2015</b> , 106, 202102	21
1260	Primary and aggregate color centers in proton irradiated LiF crystals and thin films for luminescent solid state detectors. <b>2015</b> , 80, 012018	
1259	Surface state reconstruction in ion-damaged SmB <sub>6</sub> . <b>2015</b> , 91,	29
1258	SHI irradiation of metal doped zinc sulfide polymer nanocomposites synthesized using micro emulsion method. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 358, 258-262	1.2 2
1257	ECORCE: A TCAD Tool for Total Ionizing Dose and Single Event Effect Modeling. <b>2015</b> , 62, 1516-1527	12
1256	On the pressure effect in energetic deposition of Cu thin films by modulated pulsed power magnetron sputtering: A global plasma model and experiments. <b>2015</b> , 117, 203302	28
1255	Calibration of time of flight detectors using laser-driven neutron source. <b>2015</b> , 86, 073308	18
1254	TEM study of the nucleation of bubbles induced by He implantation in 316L industrial austenitic stainless steel. <b>2015</b> , 466, 646-652	21



1253	Comparative investigations of the relative thermoluminescent efficiency of LiF detectors to protons at different proton therapy facilities. <b>2015</b> , 82, 8-13		20
1252	Revisited water radiolysis at elevated pH by accounting O <sub>3</sub> kinetics at low and high LET. <b>2015</b> , 5, 89244-89253		3
1251	Study on structural recovery of graphite irradiated with swift heavy ions at high temperature. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 522-524	1.2	5
1250	Influence of defects and displacements in sapphire doped with Ag <sup>+</sup> ions. <b>2015</b> , 357, 1231-1235		1
1249	Ion-beam-assisted fabrication and manipulation of metallic nanowires. <b>2015</b> , 10, 334-338		5
1248	Defect studies of H <sup>+</sup> implanted niobium. <b>2015</b> , 645, S69-S71		9
1247	Differential cross section measurements of <sup>27</sup> Al(p,p/α) <sup>27</sup> Al and <sup>27</sup> Al(p,p) <sup>24</sup> Mg reactions in the energy range of 1.6-3.0 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 362, 138-141	1.2	3
1246	Synthesis of heterostructured SiC and C <sub>B</sub> nanotubes by ion irradiation-induced changes in crystallinity. <b>2015</b> , 95, 279-285		9
1245	Effect of low-damage inductively coupled plasma on shallow nitrogen-vacancy centers in diamond. <b>2015</b> , 107, 073107		53
1244	Reduction of graphene oxide by 100 MeV Au ion irradiation and its application as H <sub>2</sub> O <sub>2</sub> sensor. <b>2015</b> , 48, 365105		38
1243	Transmittance Measurement of Accelerated Ions and Electrons in Divergent Gas-Puff Z-pinch Plasma. <b>2015</b> , 43, 2492-2496		1
1242	Ion beam analysis of Cu(In,Ga)Se <sub>2</sub> thin film solar cells. <b>2015</b> , 356, 631-638		15
1241	Enhanced sputter yields of ion irradiated Au nano particles: energy and size dependence. <b>2015</b> , 26, 325301		18
1240	Proton-silicon interaction potential extracted from high-resolution measurements of crystal rainbows. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 360, 23-29	1.2	16
1239	Effects of surface conditions on the plasma-driven permeation behavior through a ferritic steel alloy observed in VEHICLE-1 and QUEST. <b>2015</b> , 463, 1066-1070		14
1238	Positron study of steel NF 709 after irradiation and thermal strain. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 309-312	1.2	2
1237	Macroscopic rate equation modeling of trapping/detrapping of hydrogen isotopes in tungsten materials. <b>2015</b> , 467, 424-431		43
1236	Irradiation of low energy ions damage analysis on multilayers. <b>2015</b> ,		1

1235	Ion beam induced luminescence analysis of defect evolution in lithium fluoride under proton irradiation. <b>2015</b> , 49, 1-5		7
1234	The study of the carriers transport mechanism of GaAs/Ge solar cells based on irradiation damage model. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 360, 64-67	1.2	3
1233	PALS and physico-chemical study of swift heavy ions and gamma radiation irradiated polyamide nylon 66 polymer. <b>2015</b> , 121, 177-186		6
1232	Modification of the microstructure and electronic properties of rutile TiO <sub>2</sub> thin films with 79 MeV Br ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 553-559	1.2	8
1231	Cross section measurements of deuteron induced nuclear reactions on natural titanium up to 34 MeV. <b>2015</b> , 103, 160-5		0
1230	Sub-micrometer 20MeV protons or 45MeV lithium spot irradiation enhances yields of dicentric chromosomes due to clustering of DNA double-strand breaks. <b>2015</b> , 793, 30-40		10
1229	Time dependence of silica optical properties during the implantation of fast hydrogen ions: Theory. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 362, 182-186	1.2	3
1228	Structural modifications induced by ion irradiation and temperature in boron carbide B <sub>4</sub> C. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 30-34	1.2	19
1227	Swift heavy ion-induced radiation damage in isotropic graphite studied by micro-indentation and in-situ electrical resistivity. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 509-514	1.2	8
1226	Cross section measurements of deuteron induced nuclear reactions on natural tungsten up to 34 MeV. <b>2015</b> , 97, 52-58		19
1225	Cyclotron production of <sup>52</sup> Mn and Monte Carlo benchmarking. <b>2015</b> , 304, 669-674		6
1224	Cell death induced by ozone and various non-thermal plasmas: therapeutic perspectives and limitations. <b>2014</b> , 4, 7129		47
1223	In-situ TEM observation of the response of ultrafine- and nanocrystalline-grained tungsten to extreme irradiation environments. <b>2014</b> , 4, 4716		111
1222	Study of the Ion-Irradiation Behavior of Advanced SiC Fibers by Raman Spectroscopy and Transmission Electron Microscopy. <b>2015</b> , 98, 675-682		17
1221	Advanced characterization of MIMAS MOX fuel microstructure to quantify the HBS formation. <b>2015</b> , 281, 79-87		5
1220	Understanding the effects of ion irradiation using nanoindentation techniques. <b>2015</b> , 462, 391-401		72
1219	High-temperature corrosion of helium ion-irradiated Ni-based alloy in fluoride molten salt. <b>2015</b> , 91, 1-6		46
1218	Design study of the ESS-Bilbao 50 MeV proton beam line for radiobiological studies. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 344, 33-38	1.2	2

1217	Cross-sections for (p,x) reactions on natural chromium for the production of (52,52m,54)Mn radioisotopes. <b>2015</b> , 96, 154-161		25
1216	Temperature dependent surface modification of T91 steel under 3.25MeV Fe-ion implantation. <b>2015</b> , 326, 1-6		13
1215	Plume propagation and Pt film growth during shadow-masked pulsed laser deposition in a buffer Ar gas. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 343, 52-61	1.2	2
1214	Dose rate effect on micro-structure and hardness of Hastelloy-N irradiated by Xe ions. <b>2015</b> , 52, 829-836		2
1213	Studying localized corrosion using liquid cell transmission electron microscopy. <b>2015</b> , 51, 168-71		53
1212	Structural changes and tribological performance of thermosetting polyimide induced by proton and electron irradiation. <b>2015</b> , 107, 171-177		13
1211	Prediction of production of <sup>22</sup> Na in a gas-cell target irradiated by protons using Monte Carlo tracking. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 342, 244-248	1.2	7
1210	Behaviour of P, Si, Ni impurities and Cr in self ion irradiated FeCr alloys [Comparison to neutron irradiation. <b>2015</b> , 456, 471-476		80
1209	Ion-solid interactions at the extremes of electronic energy loss: Examples for amorphous semiconductors and embedded nanostructures. <b>2015</b> , 19, 29-38		21
1208	Physical assembly of Ag nanocrystals on enclosed surfaces in monocrystalline Si. <b>2014</b> , 4, 6744		5
1207	Influence of edge effects on single event upset susceptibility of SOI SRAMs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 342, 286-291	1.2	2
1206	Polymerization of room-temperature ionic liquid monomers by electron beam irradiation with the aim of fabricating three-dimensional micropolymer/nanopolymer structures. <b>2015</b> , 31, 4281-9		24
1205	Radiation response of amorphous metal alloys: Subcascades, thermal spikes and super-quenched zones. <b>2015</b> , 83, 419-430		38
1204	Resistance to He <sup>2+</sup> irradiation damage in metallic glass Fe <sub>80</sub> Si <sub>7.43</sub> B <sub>12.57</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 342, 221-227	1.2	14
1203	Ionization yield from nuclear recoils in liquid-xenon dark matter detection. <b>2015</b> , 62, 108-114		5
1202	Radiolytic yield of ozone in air for low dose neutron and x-ray/gamma-ray radiation. <b>2015</b> , 106, 95-98		3
1201	Effects of O <sup>7+</sup> and Ni <sup>9+</sup> swift heavy ions irradiation on polyacrylamide grafted Gum acacia thin film and sorption of methylene blue. <b>2015</b> , 111, 73-82		24
1200	Investigation of ionoluminescence of semiconductor materials using helium ion microscopy. <b>2015</b> , 157, 321-326		12

1199	Quantitative comparison of sink efficiency of Cu/Nb, Cu/V and Cu/Ni interfaces for point defects. <b>2015</b> , 82, 328-335	50
1198	Study of phase transitions in NbN ultrathin films under composite ion beam irradiation. <b>2016</b> , 130, 012046	3
1197	Investigation of radiation-induced transformations in thin NbN films by analytical electron microscopy. <b>2016</b> , 130, 012058	
1196	Thin-Film Optics. <b>2016</b> , 99-125	1
1195	Modelling and analysis of nucleon emission from deuteron-induced reactions at incident energies up to 100 MeV. <b>2016</b> , 122, 04004	5
1194	Cosmic-ray slowing down in molecular clouds: Effects of heavy nuclei. <b>2016</b> , 585, A15	14
1193	Hydration of magnesia cubes: a helium ion microscopy study. <b>2016</b> , 7, 302-9	11
1192	A novel method to recover DD fusion proton CR-39 data corrupted by fast ablator ions at OMEGA and the National Ignition Facility. <b>2016</b> , 87, 11D812	1
1191	Active and fast charge-state switching of single NV centres in diamond by in-plane Al-Schottky junctions. <b>2016</b> , 7, 1727-1735	5
1190	Atom Probe Sample Preparation. <b>2016</b> , 97-121	18
1189	First measurement of nuclear recoil head-tail sense in a fiducialised WIMP dark matter detector. <b>2016</b> , 11, P10019-P10019	16
1188	Modeling of Fission-Gas Induced Swelling of Nuclear Fuels. <b>2016</b> ,	
1187	80 MeV C <sup>6+</sup> ion irradiation effects on the DC electrical characteristics of silicon NPN power transistors. <b>2016</b> ,	
1186	Auger electron-based targeted radioimmunotherapy with <sup>58</sup> mCo, a feasibility study. <b>2016</b> ,	5
1185	Simulation for thick-target yields of transmutation reactions on radioactive targets, based on inverse kinematics. <b>2016</b> , 122, 07003	
1184	Search for mixed-symmetry states in <sup>212</sup> Po. <b>2016</b> , 724, 012023	
1183	Search for mixed-symmetry states of nuclei in the vicinity of the double-magic nucleus <sup>208</sup> Pb. <b>2016</b> , 107, 03004	1
1182	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. <b>2016</b> , 6, 177	19

1181	Ar+-Implanted Si-Waveguide Photodiodes for Mid-Infrared Detection. <b>2016</b> , 3, 46	3
1180	Alpha contamination assay, dosimetry and spectrometry using charge coupled devices. <b>2016</b> ,	0
1179	Characteristics of Protons Exiting from a Polyethylene Converter Irradiated by Neutrons with Energies between 1 keV and 10 MeV. <b>2016</b> , 11, e0157627	6
1178	Molecular Dynamics Simulations of Platinum Plasma Sputtering: A Comparative Case Study. <b>2016</b> , 4,	8
1177	High repetition-rate neutron generation by several-mJ, 35 fs pulses interacting with free-flowing D2O. <b>2016</b> , 109, 144102	11
1176	Radiation-Damage Resistance in Phyllosilicate Minerals from First Principles and Implications for Radiocesium and Strontium Retention in Soils. <b>2016</b> , 64, 108-114	6
1175	Layered Structure Induced Anisotropic Low-Energy Recoils in Ti3SiC2. <b>2016</b> , 99, 2693-2698	9
1174	Evaluation of neon focused ion beam milling for TEM sample preparation. <b>2016</b> , 264, 59-63	17
1173	Irradiation effects in CaF2 probed by Raman scattering. <b>2016</b> , 47, 978-983	9
1172	Molybdenum and Tungsten Contamination in MOS Capacitors. <b>2016</b> , 5, P203-P210	3
1171	Structural and antibacterial properties of a $\gamma$ -radiation-assisted, in situ prepared silver $\beta$ -polycarbonate matrix. <b>2016</b> , 133,	3
1170	Softening the ultra-stiff: Controlled variation of Young's modulus in single-crystal diamond by ion implantation. <b>2016</b> , 116, 95-103	21
1169	Fluence-based dosimetry of proton and heavier ion beams using single track detectors. <b>2016</b> , 61, 1021-40	13
1168	In Situ Electrical Characteristics of 150 MeV Ag <sup>9+</sup> Ion Beam Induced Damage in Si Photo Detector. <b>2016</b> , 5, P384-P388	3
1167	Temperature dependent dispersoid stability in ion-irradiated ferritic-martensitic dual-phase oxide-dispersion-strengthened alloy: Coherent interfaces vs. incoherent interfaces. <b>2016</b> , 116, 29-42	48
1166	Irradiation effects in 6H $\beta$ SiC induced by neutron and heavy ions: Raman spectroscopy and high-resolution XRD analysis. <b>2016</b> , 478, 215-221	28
1165	Proton implantation for the isolation of AlGaAs/GaAs quantum cascade lasers. <b>2016</b> , 31, 075010	5
1164	Defect studies of zirconia implanted by high energy Xe ions. <b>2016</b> , 674, 012016	

1163	Novel BF+ Implantation for High Performance Ge pMOSFETs. <b>2016</b> , 37, 954-957	5
1162	In Situ Monitoring of Cu(In <sub>1-x</sub> Ga <sub>x</sub> )Se <sub>2</sub> Composition and Target Poisoning by Real Time Optical Emission Spectroscopy During Deposition From a Hybrid Sputtering/Evaporation Process. <b>2016</b> , 13, 997-1007	6
1161	Structure and properties of poly(4-methylpentene-1) track-etched membranes. <b>2016</b> , 56, 294-302	1
1160	Effect of cobalt implantation on structural and optical properties of rutile TiO <sub>2</sub> (110). <b>2016</b> , 122, 1	7
1159	From photoluminescence emissions to plasmonic properties in platinum nanoparticles embedded in silica by ion implantation. <b>2016</b> , 179, 8-15	7
1158	Tilted pillar array fabrication by the combination of proton beam writing and soft lithography for microfluidic cell capture: Part 1 Design and feasibility. <b>2016</b> , 37, 498-503	10
1157	Ni ion damage structures and hardness changes in austenitic stainless steels and their model alloys. <b>2016</b> , 674, 012009	
1156	Activation of Si implants into InAs characterized by Raman scattering. <b>2016</b> , 119, 095705	2
1155	Irradiation of nitrogen-rich ices by swift heavy ions. <b>2016</b> , 592, A99	17
1154	High density nitrogen-vacancy sensing surface created via He <sup>+</sup> ion implantation of <sup>12</sup> C diamond. <b>2016</b> , 108, 202401	47
1153	FIP effect for minor heavy solar wind ions as seen with SOHO/CELIAS/MTOF. <b>2016</b> ,	
1152	Formation of the single-phase ferromagnetic semiconductor (Ga,Mn)As by pulsed laser annealing. <b>2016</b> , 58, 2218-2222	4
1151	Hyperfine-enhanced gyromagnetic ratio of a nuclear spin in diamond. <b>2016</b> , 18, 083016	5
1150	Response of timepix detector with GaAs:Cr and Si sensor to heavy ions. <b>2016</b> , 13, 363-369	3
1149	Measurement and simulation of the momentum transferred to a surface by deposition of sputtered atoms*. <b>2016</b> , 70, 1	8
1148	NbO Nanostructure Evolution on Nb Surfaces via Low-Energy He Ion Irradiation. <b>2016</b> , 8, 34896-34903	8
1147	Additional control of bombardment by deep oscillation magnetron sputtering: Effect on the microstructure and topography of Cr thin films. <b>2016</b> , 619, 250-260	14
1146	Simulations on time-of-flight ERDA spectrometer performance. <b>2016</b> , 87, 083309	3

1145	Helium ion beam enhanced local etching of silicon nitride. <b>2016,</b>	2
1144	Ballistic effects on the copper precipitation and re-dissolution kinetics in an ion irradiated and thermally annealed Fe-Cu alloy. <b>2016, 145, 104704</b>	14
1143	Production yield of rare-earth ions implanted into an optical crystal. <b>2016, 108, 053108</b>	16
1142	Different effects of laser contrast on proton emission from normal large foils and transverse-size-reduced targets. <b>2016, 58, 075010</b>	10
1141	Zn precipitation and Li depletion in Zn implanted ZnO. <b>2016, 109, 022102</b>	2
1140	Experimental probe for the production of Ru97 from the Li7+ Nb93 reaction: A study of precompound emissions. <b>2016, 94,</b>	16
1139	Neutron imaging with the short-pulse laser driven neutron source at the Trident laser facility. <b>2016, 120, 154901</b>	22
1138	Defect-engineered optical bandgap in self-assembled TiO2 nanorods on Si pyramids. <b>2016, 108, 011907</b>	20
1137	Depth dependent modification of optical constants arising from H+ implantation in n-type 4H-SiC measured using coherent acoustic phonons. <b>2016, 1, 036102</b>	9
1136	A Novel Method for Simultaneous on Wafer Level Monitoring of Ion Implantation Energy and Dose. <b>2016,</b>	
1135	Deterministic Atom Placement by Ion Implantation: Few and Single Atom Devices for Quantum Computer Technology. <b>2016,</b>	3
1134	Diffusion Suppression of Delta Doped Phosphorus in Germanium by Implantation of Nitrogen. <b>2016</b>	
1133	Thermoacoustic range verification using a clinical ultrasound array provides perfectly co-registered overlay of the Bragg peak onto an ultrasound image. <b>2016, 61, 5621-38</b>	24
1132	3 MeV Proton Irradiation of Commercial State of the Art Photonic Mixer Devices. <b>2016,</b>	
1131	O17+Ni58 scattering and reaction dynamics around the Coulomb barrier. <b>2016, 94,</b>	7
1130	Boron abundances and isotopic ratios of olivine grains on Itokawa returned by the Hayabusa spacecraft. <b>2016, 51, 1721-1729</b>	3
1129	Characterisation of irradiation-induced defects in ZnO single crystals. <b>2016, 674, 012014</b>	1
1128	Formation and annihilation of E4 centers in ZnO: Influence of hydrogen. <b>2016, 119, 181506</b>	13

1127	Synthesis of graphene and graphene nanostructures by ion implantation and pulsed laser annealing. <b>2016</b> , 120, 025105	3
1126	Observation of oversaturation-induced defect formation in tungsten irradiated by low energy deuterium ion. <b>2016</b> , 69, 518-524	2
1125	Gate dielectric ion implantation to modulate the threshold voltage of In <sub>2</sub> O <sub>3</sub> nanowire field effect transistors. <b>2016</b> , 109, 193505	7
1124	Formation of swift heavy ion tracks on a rutile TiO (001) surface. <b>2016</b> , 49, 1704-1712	13
1123	Compact Dual Ion Composition Experiment for space plasmas CoDICE. <b>2016</b> , 121, 6632-6638	3
1122	Carbon foils for space plasma instrumentation. <b>2016</b> , 121, 3931-3950	24
1121	Optical far-field super-resolution microscopy using nitrogen vacancy center ensemble in bulk diamond. <b>2016</b> , 109, 111107	9
1120	Dynamic properties of the energy loss of multi-MeV charged particles traveling in two-component warm dense plasmas. <b>2016</b> , 94, 063203	6
1119	Stopping dynamics of ions passing through correlated honeycomb clusters. <b>2016</b> , 94,	29
1118	Effect of medium range order on pulsed laser crystallization of amorphous germanium thin films. <b>2016</b> , 108, 221906	9
1117	Experimental study of the astrophysically important Na <sup>23</sup> (p,n)Mg <sup>26</sup> and Na <sup>23</sup> (p,n)Al <sup>26</sup> reactions. <b>2016</b> , 94,	12
1116	Mechanical properties and plasticity size effect of Fe-6%Cr irradiated by Fe ions and by neutrons. <b>2016</b> , 482, 236-247	10
1115	Modelling the thermomechanical behaviour of the tungsten first wall in HiPER laser fusion scenarios. <b>2016</b> , 56, 126014	15
1114	Measurement of radiative proton capture on F18 and implications for oxygen-neon novae reexamined. <b>2016</b> , 94,	2
1113	Investigation of proton damage in III-V semiconductors by optical spectroscopy. <b>2016</b> , 119, 235702	2
1112	Measurement of the <sup>6</sup> Li(n,p)neutron standard cross-section at the GELINA facility. <b>2016</b> , 122, 08006	1
1111	The effect of structural disorder on the secondary electron emission of graphite. <b>2016</b> , 6, 095117	3
1110	Structural and compositional dependence of the CdTe <sub>x</sub> Se <sub>1-x</sub> alloy layer photoactivity in CdTe-based solar cells. <b>2016</b> , 7, 12537	82



1109	Independent control of electrical and heat conduction by nanostructure designing for Si-based thermoelectric materials. <b>2016</b> , 6, 22838		38
1108	Evolution kinetics of elementary point defects in ZnO implanted with low fluences of helium at cryogenic temperature. <b>2016</b> , 94,		13
1107	Development toward a double focusing isotopic separator for noble gas isotope enrichment. <b>2016</b> , 51, 908-913		5
1106	Efficient creation of dipolar coupled nitrogen-vacancy spin qubits in diamond. <b>2016</b> , 752, 012001		10
1105	Effect of the implantation dose and annealing time on the luminescence properties of (113) defects in silicon implanted by oxygen ions. <b>2016</b> , 58, 2499-2502		4
1104	The effects of annealing a 2-dimensional array of ion-irradiated Josephson junctions. <b>2016</b> , 29, 094004		3
1103	Annealing bounds to prevent further Charge Transfer Inefficiency increase of the Chandra X-ray CCDs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 389-390, 23-27	1.2	1
1102	Thermal spike effect in sputtering of porous germanium to form surface pattern by high energy heavy ions irradiation. <b>2016</b> , 108, 201603		4
1101	The modification of the structure of multilayer Co/Pt films by the irradiation with a focused helium ion beam. <b>2016</b> ,		3
1100	Depletion region surface effects in electron beam induced current measurements. <b>2016</b> , 120,		17
1099	High energy electron irradiation of interstellar carbonaceous dust analogs: Cosmic ray effects on the carriers of the 3.4 $\mu\text{m}$ absorption band. <b>2016</b> , 831,		11
1098	Picosecond metrology of laser-driven proton bursts. <b>2016</b> , 7, 10642		56
1097	A two-dimensional angular-resolved proton spectrometer. <b>2016</b> , 87, 103301		2
1096	Increase in elastic anisotropy of single crystal tungsten upon He-ion implantation measured with laser-generated surface acoustic waves. <b>2016</b> , 109, 151906		16
1095	Engineered magnetic domain textures in exchange bias bilayer systems. <b>2016</b> , 120, 033902		15
1094	Probing electron density across Ar <sup>+</sup> irradiation-induced self-organized TiO <sub>2</sub> nanochannels for memory application. <b>2016</b> , 108, 244104		11
1093	Lattice site specific diffusion properties for substitutional and interstitial impurity atoms in ZnO crystals. <b>2016</b> , 120, 115102		
1092	Platinum nanoclusters in silica: Photoluminescent properties and their application for enhancing the emission of silicon nanocrystals in an integrated configuration. <b>2016</b> , 120, 123106		3

1091	Experimental validation of gallium production and isotope-dependent positron range correction in PET. <b>2016</b> , 814, 110-116		5
1090	Target nanomaterials at CERN-ISOLDE: synthesis and release data. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 376, 81-85	1.2	18
1089	Origin of microplasma instabilities during DC operation of silicon based microhollow cathode devices. <b>2016</b> , 25, 025021		5
1088	Rate of F center formation in sapphire under low-energy low-fluence Ar <sup>+</sup> irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 303-306	1.2	6
1087	Investigation of the magnetic properties of proton irradiated type Ib HPHT diamond. <b>2016</b> , 64, 197-201		0
1086	Variable helium diffusion characteristics in fluorite. <b>2016</b> , 188, 21-34		7
1085	Using the Doppler broadened $\gamma$ line of the $^{10}\text{B}(n,\alpha)^7\text{Li}$ reaction for thermal neutron detection. <b>2016</b> , 810, 140-143		2
1084	Hydrogen ion-implantation induced low resistive layer in KNbO <sub>3</sub> bulk single crystal: Evaluation by elastic recoil detection analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 283-285 <sup>1,2</sup>		2
1083	Buried Boron Doped Layer for CVD Diamond Photo-Thermionic Cathodes. <b>2016</b> , 15, 862-866		6
1082	Revisiting alpha decay-based near-light-speed particle propulsion. <b>2016</b> , 114, 14-8		1
1081	Accelerator-based production of the ( <sup>99m</sup> Tc-( <sup>186</sup> Re) diagnostic-therapeutic pair using metal disulfide targets (MoS <sub>2</sub> , WS <sub>2</sub> , OsS <sub>2</sub> ). <b>2016</b> , 114, 159-66		12
1080	Ionoluminescence study of Zn <sup>2+</sup> and O <sup>2-</sup> implanted ZnO crystals: An additional perspective. <b>2016</b> , 371, 28-34		30
1079	Swift-heavy ion irradiation-induced latent tracks in few- and mono-layer MoS <sub>2</sub> . <b>2016</b> , 122, 1		9
1078	Resistance to He <sup>2+</sup> irradiation damage in metallic glass Ta <sub>38</sub> Ni <sub>62</sub> . <b>2016</b> , 383, 106-112		6
1077	Comparative analysis of CR-39 sensitivity for different sets of measurable track parameters. <b>2016</b> , 91, 44-49		7
1076	Morphology and magnetic properties of the ethylene-co-vinyl acetate/iron nanocomposite films prepared by implantation with Fe <sup>6+</sup> ions. <b>2016</b> , 378, 362-367		2
1075	Directing Matter: Toward Atomic-Scale 3D Nanofabrication. <b>2016</b> , 10, 5600-18		76
1074	Tungsten contamination in ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 377, 99-104	1.2	2

1073	Composition dependent thermal annealing behaviour of ion tracks in apatite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 211-214	1.2	2
1072	Methodology for determining void swelling at very high damage under ion irradiation. <b>2016</b> , 477, 273-279		15
1071	Assessment of experimental d-PIGE $\gamma$ -ray production cross sections for $^{12}\text{C}$ , $^{14}\text{N}$ and $^{16}\text{O}$ and comparison with absolute thick target yields. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 380, 1-10	1.2	2
1070	Enhancement in luminescence properties of $\text{ZrO}_2:\text{Dy}^{3+}$ under 100 MeV swift $\text{Ni}^{7+}$ ion irradiation. <b>2016</b> , 6, 55240-55247		12
1069	Dose dependence of helium bubble formation in nano-engineered SiC at 700°C. <b>2016</b> , 472, 153-160		17
1068	Molecular dynamics simulation of bipartite bimetallic clusters under low-energy argon ion bombardment. <b>2016</b> , 58, 387-393		5
1067	Porosity estimation of alumina samples based on resonant backscattering spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 373, 80-84	1.2	1
1066	Engineered Pinning Landscapes for Enhanced 2G Coil Wire. <b>2016</b> , 26, 1-4		33
1065	Effects of excess oxygen on the 4.58.3 eV absorption spectra of oxygen-rich high purity silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 375, 40-48	1.2	
1064	Energetic and kinetic dataset on interaction of the vacancy and self-interstitial atom with the grain boundary in Iron. <b>2016</b> , 7, 798-813		4
1063	Time dependent modeling of single particle displacement damage in silicon devices. <b>2016</b> , 60, 25-32		3
1062	Ion beam induced cubic to monoclinic phase transformation of nanocrystalline yttria. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 73-77	1.2	9
1061	Measurement of deuteron induced gamma-ray emission differential cross sections on natCl from 1.0 to 2.0 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 377, 37-42	1.2	3
1060	Low energy ion scattering (LEIS). A practical introduction to its theory, instrumentation, and applications. <b>2016</b> , 8, 3419-3439		45
1059	Optimization of sedimentation of tungsten on copper substrate for production of $^{186}\text{g Re}$ via $^{186}\text{W}(p,n)$ nuclear reaction: Feasibility of using high current, long irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 366, 224-226	1.2	1
1058	Radioactive by-products of a self-shielded cyclotron and the liquid target system for F-18 routine production. <b>2016</b> , 39, 403-12		15
1057	CEMS study of defect annealing in Fe implanted AlN. <b>2016</b> , 237, 1		1
1056	Swift heavy ion induced phase transformation and thermoluminescence properties of zirconium oxide. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 131-135	1.2	10

1055	SHI induced effects on the electrical and optical properties of HfO <sub>2</sub> thin films deposited by RF sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 230-234	1.2	16
1054	A direct comparison between in-situ transmission electron microscopy observations and Dislocation Dynamics simulations of interaction between dislocation and irradiation induced loop in a zirconium alloy. <b>2016</b> , 119, 71-75		23
1053	Nuclear Reaction Analysis. <b>2016</b> , 315-336		3
1052	Effects of 3.5 MeV proton irradiation on pure zirconium. <b>2016</b> , 22, 443-450		2
1051	Flower color mutants induced by carbon ion beam irradiation of geranium ( <i>Pelargonium</i> sp. hortorum, Bailey). <b>2016</b> , 27, 1		8
1050	Corrosion of the alloys Magnox AL80, Magnox ZR55 and pure magnesium in air containing water vapour. <b>2016</b> , 112, 347-363		9
1049	Formation of He-Rich Layers Observed by Neutron Reflectometry in the He-Ion-Irradiated Cr/W Multilayers: Effects of Cr/W Interfaces on the He-Trapping Behavior. <b>2016</b> , 8, 24300-5		8
1048	Thin film depth profiling by ion beam analysis. <b>2016</b> , 141, 5944-5985		65
1047	Radon induced hyperplasia: effective adaptation reducing the local doses in the bronchial epithelium. <b>2016</b> , 36, 653-666		4
1046	Transport of spin qubits with donor chains under realistic experimental conditions. <b>2016</b> , 94,		14
1045	Design of the prototype of a beam transport line for handling and selection of low energy laser-driven beams. <b>2016</b> , 837, 80-87		3
1044	Photocurrent radiometry for predicting the degradation of electrical parameters of monocrystalline silicon (c-Si) solar cell irradiated by 100 KeV proton beams. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 171-176	1.2	8
1043	An O <sub>2</sub> <sup>+</sup> probe energy study for boron quantification in Si <sub>1-x</sub> Gex (0 ≤ x ≤ 1) using secondary ion mass spectrometry. <b>2016</b> , 390, 778-783		1
1042	Radiation response of alloy T91 at damage levels up to 1000 peak dpa. <b>2016</b> , 482, 257-265		45
1041	Gallium ion irradiation induced compaction and hardening of sputter deposited amorphous carbon thin films. <b>2016</b> , 112, 512-518		
1040	High-rate axial-field ionization chamber for particle identification of radioactive beams. <b>2016</b> , 837, 28-33		2
1039	The influence of carbon on the resistivity recovery of proton irradiated Fe-1 at.% Cr alloys. <b>2016</b> , 9, 465-470		5
1038	Nature of gallium focused ion beam induced phase transformation in 316L austenitic stainless steel. <b>2016</b> , 120, 391-402		37

1037	In situ Transmission Electron Microscopy He+ implantation and thermal aging of nanocrystalline iron. <b>2016</b> , 482, 139-146	5
1036	Electron backscatter diffraction studies of focused ion beam induced phase transformation in cobalt. <b>2016</b> , 120, 210-219	9
1035	L-shell X-ray production cross sections of Ce, Nd, Sm, Eu, Gd, and Dy by impact of 14 N 2+ ions with energies between 7.0 MeV and 10.5 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 89-92	1.2 6
1034	Persistent photoconductivity in oxygen-ion implanted KNbO <sub>3</sub> bulk single crystal. <b>2016</b> , 248, 120-122	
1033	Mesoscale model for fission-induced recrystallization in U-7Mo alloy. <b>2016</b> , 124, 228-237	24
1032	A table-top ion and electron beam facility for ionization quenching measurement and gas detector calibration. <b>2016</b> , 832, 214-218	4
1031	Hydrogen Emission and Macromolecular Radiation-Induced Defects in Polyethylene Irradiated under an Inert Atmosphere: The Role of Energy Transfers toward trans-Vinylene Unsaturations. <b>2016</b> , 120, 10367-10380	8
1030	. <b>2016</b> , 63, 2183-2192	11
1029	Quantitative autoradiography of alpha particle emission in geo-materials using the Beaver <sup>2</sup> system. <b>2016</b> , 833, 15-22	24
1028	Deuteron induced Tb-155 production, a theranostic isotope for SPECT imaging and auger therapy. <b>2016</b> , 118, 281-289	13
1027	Electronic band structure effects in the stopping of protons in copper. <b>2016</b> , 94,	35
1026	Theoretical model analysis of (d,xn) reactions on Be <sup>9</sup> and C <sup>12</sup> at incident energies up to 50 MeV. <b>2016</b> , 94,	25
1025	Ionoluminescence. <b>2016</b> , 325-351	4
1024	Structural response of titanate pyrochlores to swift heavy ion irradiation. <b>2016</b> , 117, 207-215	46
1023	Electronic stopping power in liquid water for protons and alpha particles from first principles. <b>2016</b> , 94,	27
1022	A new study of <sup>10</sup> B(p,(alpha)) <sup>7</sup> Be reaction at low energies. <b>2016</b> , 52, 1	10
1021	Production of bulk NV centre arrays by shallow implantation and diamond CVD overgrowth. <b>2016</b> , 213, 2594-2600	18
1020	Microstructure of Au-ion irradiated 316L and FeNiCr austenitic stainless steels. <b>2016</b> , 480, 436-446	15

1019	New excitation functions for proton induced reactions on natural titanium, nickel and copper up to 70 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 191-212	1.2	22
1018	Interactions of Ionizing Radiation with Matter and Direct Energy Conversion. <b>2016</b> , 81-175		
1017	A computer program TRACK_P for studying proton tracks in PADC detectors. <b>2016</b> , 5, 74-79		8
1016	Creation and characterization of He-related color centers in diamond. <b>2016</b> , 179, 59-63		10
1015	Photoluminescence of gallium ion irradiated hexagonal and cubic GaN quantum dots. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 1-5	1.2	3
1014	Nonstoichiometry, Structure, and Properties of BiFeO <sub>3</sub> Films. <b>2016</b> , 28, 5952-5961		42
1013	Fast neutron spectroscopy with tensioned metastable fluid detectors. <b>2016</b> , 830, 355-365		6
1012	Displacement rate and temperature equivalence in stochastic cluster dynamics simulations of irradiated pure Fe. <b>2016</b> , 480, 129-137		6
1011	Anti-biofilm activity of Fe heavy ion irradiated polycarbonate. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 384, 6-13	1.2	11
1010	Role of composition, bond covalency, and short-range order in the disordering of stannate pyrochlores by swift heavy ion irradiation. <b>2016</b> , 94,		37
1009	Electronic sputtering of vitreous SiO <sub>2</sub> : Experimental and modeling results. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 2-8	1.2	16
1008	Intercalation of graphene on SiC(0001) via ion implantation. <b>2016</b> , 94,		17
1007	Precipitation kinetics of dilute Cu-W alloys during low-temperature ion irradiation. <b>2016</b> , 120, 46-55		24
1006	Introduction to Nuclear Batteries and Radioisotopes. <b>2016</b> , 1-37		2
1005	Power Density Dilution Due to the Interface of the Isotope with the Transducer. <b>2016</b> , 177-220		
1004	Void swelling and microstructure evolution at very high damage level in self-ion irradiated ferritic-martensitic steels. <b>2016</b> , 480, 159-176		65
1003	Influence of ion beam irradiation induced defects on the structural, optical and electrical properties of tellurium nanowires. <b>2016</b> , 183, 165-172		5
1002	Atomistic Simulations of Ceramic Materials Relevant for Nuclear Waste Management: Cases of Monazite and Pyrochlore. <b>2016</b> , 165-175		10

1001	Mutagenic effects of carbon ion beam irradiations on dry Lotus japonicus seeds. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 123-128	1.2	13
1000	On the efficiency of combined ion implantation for the creation of near-surface nitrogen-vacancy centers in diamond. <b>2016</b> , 213, 2044-2050		10
999	Optical studies of cobalt implanted rutile TiO <sub>2</sub> (110) surfaces. <b>2016</b> , 387, 938-943		8
998	Multinucleon transfer in O <sup>16</sup> , <sup>18</sup> ,F <sup>19</sup> +Pb <sup>208</sup> reactions at energies near the fusion barrier. <b>2016</b> , 94,		26
997	Efficiency Limitations for Various Nuclear Battery Configurations. <b>2016</b> , 221-284		
996	Formation of donors in germanium-silicon alloys implanted with hydrogen ions with different energies. <b>2016</b> , 50, 1122-1124		
995	Pixel pitch and particle energy influence on the dark current distribution of neutron irradiated CMOS image sensors. <b>2016</b> , 24, 4299-315		14
994	Radiation Hardness and Self-Healing of Perovskite Solar Cells. <b>2016</b> , 28, 8726-8731		128
993	Dating kimberlite emplacement with zircon and perovskite (U-Th)/He geochronology. <b>2016</b> , 17, 4517-4533		13
992	Threshold concentration for ion implantation-induced Co nanocluster formation in TiO <sub>2</sub> :Co thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 389-390, 13-16	1.2	3
991	Atomic layer deposition ultrathin film origami using focused ion beams. <b>2016</b> , 27, 49LT02		9
990	Direct measurement of low-energy Ne <sup>22</sup> (p, $\bar{n}$ )Na <sup>23</sup> resonances. <b>2016</b> , 94,		26
989	Tailoring Spin Textures in Complex Oxide Micromagnets. <b>2016</b> , 10, 8545-51		10
988	How to produce high specific activity tin-117m using alpha particle beam. <b>2016</b> , 115, 113-124		6
987	Experimental validation of simulations of radiation shielding effectiveness of materials by MULASSIS. <b>2016</b> , 58, 2376-2384		4
986	Measurement of proton inelastic scattering cross sections on fluorine. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 384, 37-41	1.2	
985	Mechanical behavior of copper containing a gas-bubble superlattice. <b>2016</b> , 121, 78-84		38
984	Radiation track, DNA damage and response-a review. <b>2016</b> , 79, 116601		170

983	Scattering of hydrogen, nitrogen and water ions from micro pore optic plates for application in spaceborne plasma instrumentation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 385, 9-14	1.2	2
982	$\gamma$ Ray spectroscopy using a binned likelihood approach. <b>2016</b> , 830, 427-437		7
981	Narrow-Linewidth Homogeneous Optical Emitters in Diamond Nanostructures via Silicon Ion Implantation. <b>2016</b> , 5,		90
980	Adiabatic perturbation theory of electronic stopping in insulators. <b>2016</b> , 93,		9
979	Low-temperature conducting state in two candidate topological Kondo insulators: SmB <sub>6</sub> and Ce <sub>3</sub> Bi <sub>4</sub> Pt <sub>3</sub> . <b>2016</b> , 94,		27
978	Low-lying isovector 2+ valence-shell excitations of Po <sub>212</sub> . <b>2016</b> , 93,		12
977	Measurement of the Tm <sup>169</sup> (n, $\beta$ )Tm <sup>167</sup> cross section and the associated branching ratios in the decay of Tm <sup>167</sup> . <b>2016</b> , 93,		11
976	Proton capture cross sections on neutron-magic Sm <sup>144</sup> at astrophysically relevant energies. <b>2016</b> , 93,		4
975	Partial cross sections of the Mo <sup>92</sup> (p, $\gamma$ ) reaction and the $\sigma$ strength in Tc <sup>93</sup> . <b>2016</b> , 93,		15
974	First direct measurement of the C <sup>11</sup> ( $\beta$ )N <sup>14</sup> stellar reaction by an extended thick-target method. <b>2016</b> , 93,		5
973	Electron Elevator: Excitations across the Band Gap via a Dynamical Gap State. <b>2016</b> , 116, 043201		46
972	Characterization of the ELIMED Permanent Magnets Quadrupole system prototype with laser-driven proton beams. <b>2016</b> , 11, T07005-T07005		15
971	Radiation damage-controlled localization of alteration haloes in albite: implications for alteration types and patterns vis-à-vis mineralization and element mobilization. <b>2016</b> , 110, 823-843		9
970	On the Use of Scalable NanoISFET Arrays of Silicon with Highly Reproducible Sensor Performance for Biosensor Applications. <b>2016</b> , 1, 84-92		26
969	Production of <sup>3</sup> He in rocks by reactions induced by particles of the nuclear-active and muon components of cosmic rays: Geological and petrological implications. <b>2016</b> , 24, 21-34		7
968	Highly Selective Ionic Transport through Subnanometer Pores in Polymer Films. <b>2016</b> , 26, 5796-5803		106
967	Evidence for Magnetic Order in Graphite from Magnetization and Transport Measurements. <b>2016</b> , 45-76		3
966	Differential cross sections measurement of <sup>31</sup> P(p,p $\pi$ <sup>1</sup> ) <sup>31</sup> P reaction for PIGE applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 152-155	1.2	3



965	Nanoscale Engineering of Closely-Spaced Electronic Spins in Diamond. <b>2016</b> , 16, 4982-90		34
964	Traceable stopping cross sections of Al and Mo elemental targets for 0.9B.6-MeV protons. <b>2016</b> , 93,		5
963	Ion-beam nanopatterning of silicon surfaces under codeposition of non-silicide-forming impurities. <b>2016</b> , 93,		12
962	Combined high-resolution laser spectroscopy and nuclear decay spectroscopy for the study of the low-lying states in Fr206, At202, and Bi198. <b>2016</b> , 93,		11
961	Second 0+ state of unbound O12: Scaling of mirror asymmetry. <b>2016</b> , 93,		8
960	Absolute hydrogen depth profiling using the resonant $^1\text{H}(^{15}\text{N}, \dots)$ . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 381, 58-66	1.2	9
959	Magneto-transport properties of As-implanted highly oriented pyrolytic graphite. <b>2016</b> , 500, 118-125		1
958	Relatively low temperature deposition of graphene like films with ethane GCIB irradiation. <b>2016</b> , 306, 218-221		
957	Effect of noble gas ion pre-irradiation on deuterium retention in tungsten. <b>2016</b> , T167, 014001		3
956	All-carbon multi-electrode array for real-time in vitro measurements of oxidizable neurotransmitters. <b>2016</b> , 6, 20682		25
955	Layer-by-layer composition and structure of silicon subjected to combined gallium and nitrogen ion implantation for the ion synthesis of gallium nitride. <b>2016</b> , 50, 271-275		6
954	Reconstruction of Ge spatial distribution in ICF target using PIXE-T. <b>2016</b> , 113, 43-50		6
953	Recent developments in the Thomson Parabola Spectrometer diagnostic for laser-driven multi-species ion sources. <b>2016</b> , 11, C10005-C10005		9
952	Overview of the NASA space radiation laboratory. <b>2016</b> , 11, 18-23		69
951	A new method of making ohmic contacts to p-GaN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 388, 35-40	1.2	6
950	Ion-beam synthesis and thermal behaviour of luminescent Zn <sub>2</sub> SiO <sub>4</sub> nanoparticles in silica glasses and films. <b>2016</b> , 253, 2180-2184		1
949	Precipitation behavior of Al <sub>x</sub> CoCrFeNi high entropy alloys under ion irradiation. <b>2016</b> , 6, 32146		54
948	Highly Efficient Power Conversion from Salinity Gradients with Ion-Selective Polymeric Nanopores. <b>2016</b> , 33, 096103		5

947	Uncovering Special Nuclear Materials by Low-energy Nuclear Reaction Imaging. <b>2016</b> , 6, 24388	26
946	Monte Carlo Simulations of Focused Ion Beam Induced Processing. <b>2016</b> , 89-118	1
945	DirectWrite Milling and Deposition with Noble Gases. <b>2016</b> , 355-393	14
944	Laser-Assisted Focused He Ion Beam Induced Etching with and without XeF Gas Assist. <b>2016</b> , 8, 29155-29162	23
943	Non-monotonic temperature dependence of radiation defect dynamics in silicon carbide. <b>2016</b> , 6, 30931	15
942	Deep proton writing with 12 MeV protons for rapid prototyping of microstructures in polymethylmethacrylate. <b>2016</b> , 15, 044501	2
941	Observation of a helium ion energy threshold for retention in tungsten exposed to hydrogen/helium mixture plasma. <b>2016</b> , 56, 104002	15
940	ION-INDUCED PROCESSING OF COSMIC SILICATES: A POSSIBLE FORMATION PATHWAY TO GEMS. <b>2016</b> , 831, 66	5
939	Ion Micro Beam, promising methods for interdisciplinary research. <b>2016</b> , 11, C05001-C05001	4
938	Development of a pepper-pot emittance meter for diagnostics of low-energy multiply charged heavy ion beams extracted from an ECR ion source. <b>2016</b> , 87, 02B920	7
937	In vacuo growth studies of Ru thin films on Si, SiN, and SiO <sub>2</sub> by high-sensitivity low energy ion scattering. <b>2016</b> , 120, 065303	9
936	Growth of Graphene on SiC(111) Surfaces via Ion-Beam Irradiation. <b>2016</b> , 14, 121-124	0
935	Interdiffusion and stress development in single-crystalline Pd/Ag bilayers. <b>2016</b> , 119, 145308	6
934	Estimating the magnetic moment of microscopic magnetic sources from their magnetic field distribution in a layer of nitrogen-vacancy (NV) centres in diamond. <b>2016</b> , 73, 20701	5
933	Hard X-ray irradiation of cosmic silicate analogs: structural evolution and astrophysical implications. <b>2016</b> , 587, A144	7
932	Highly spatially resolved structural and optical investigation of Bi nanoparticles in Y-Er disilicate thin films. <b>2016</b> , 109, 061902	3
931	TEM with in situ Ion Irradiation of Nuclear Materials under In-Service Conditions. <b>2016</b> , 22, 1460-1461	1
930	A simple and compact method for measuring the hydrogen ion fraction of hybrid ion beams. <b>2016</b> , 6, 125046	

929	ANTS2 package: simulation and experimental data processing for Anger camera type detectors. <b>2016</b> , 11, P04022-P04022	26
928	Irradiation Effects on the Retention of Hydrogen in Al <sub>2</sub> O <sub>3</sub> . <b>2016</b> , 33, 066102	1
927	Evidence of secondary electron emission during PIII pulses as measured by calorimetric probe. <b>2016</b> , 70, 1	5
926	Effects of cesium ion-implantation on mechanical and electrical properties of organosilicate low-k films. <b>2016</b> , 108, 202901	1
925	In Situ Electrochemical Behavior of Titanium Alloys (T40, T64) Under 4He <sup>2+</sup> Irradiation. <b>2016</b> , 1845-1848	
924	Surface-Directed Nanoepitaxy on a Surface with an Irregular Lattice. <b>2016</b> , 3, 1500598	2
923	Estimation of atmospheric neutrinos background in Borexino. <b>2016</b> , 675, 012014	2
922	Shaping and compositional modification of zinc oxide nanowires under energetic manganese ion irradiation. <b>2016</b> , 27, 175301	9
921	Sensitivity of <sup>57</sup> Fe emission Mössbauer spectroscopy to Ar and C induced defects in ZnO. <b>2016</b> , 237, 1	1
920	Effect of ion beam parameters on engineering of nanoscale voids and their stability under post-growth annealing. <b>2016</b> , 122, 1	8
919	Graphene: the ultimately thin sputtering shield. <b>2016</b> , 3, 025032	18
918	Enhanced surface and interface diffusion in NiBi bilayers by swift heavy ion irradiation. <b>2016</b> , 6, 58950-58956	6
917	Evaluation of hardening behaviors in ion-irradiated Fe <sub>9</sub> Cr and Fe <sub>20</sub> Cr alloys by nanoindentation technique. <b>2016</b> , 478, 50-55	24
916	Resonant Raman spectroscopy study of swift heavy ion irradiated MoS <sub>2</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 381, 1-5	1.2 5
915	4H-SiC Neutron Sensors Based on Ion Implanted <sup>10</sup> B Neutron Converter Layer. <b>2016</b> , 63, 1976-1980	7
914	ION IRRADIATION OF ETHANE AND WATER MIXTURE ICE AT 15 K: IMPLICATIONS FOR THE SOLAR SYSTEM AND THE ISM. <b>2016</b> , 824, 81	12
913	Curved gratings as an integrated photon fluence monitor in x-ray transmission scattering experiments. <b>2016</b> , 24, 13091-100	6
912	Altering the luminescence properties of self-assembled quantum dots in GaAs by focused ion beam implantation. <b>2016</b> , 122, 1	4

911	Lattice sites, charge states and spin lattice relaxation of Fe ions in 57 Mn + implanted GaN and AlN. <b>2016</b> , 401, 1130-1138		5
910	Response functions of semiconducting lithium indium diselenide. <b>2016</b> , 822, 9-14		5
909	MultiSIMNRA: A computational tool for self-consistent ion beam analysis using SIMNRA. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 86-89	1.2	56
908	Status of the low-energy super-heavy element facility at RIKEN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 376, 425-428	1.2	9
907	Nanoscale nonlinear effects in Erbium-implanted Yttrium Orthosilicate. <b>2016</b> , 177, 266-274		2
906	The diffusion of cesium, strontium, and europium in silicon carbide. <b>2016</b> , 476, 155-167		10
905	In situ TEM annealing of ion-amorphized Hi Nicalon S and Tyranno SA3 SiC fibers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 374, 76-81	1.2	4
904	Mono and sequential ion irradiation induced damage formation and damage recovery in oxide glasses: Stopping power dependence of the mechanical properties. <b>2016</b> , 469, 244-250		45
903	Experimental results of the laserwire emittance scanner for LINAC4 at CERN. <b>2016</b> , 830, 526-531		2
902	A comparison of lower and higher LET heavy ion irradiation effects on silicon NPN rf power transistors. <b>2016</b> , 822, 34-42		3
901	Time dependence of silica optical properties during the implantation of fast hydrogen ions: Experiment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 366, 90-95	1.2	3
900	Optical properties and surface damage studies of crystalline silicon caused by swift iron ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 375, 67-70	1.2	
899	SHI induced modification in structural, optical, dielectric and thermal properties of poly ethylene oxide films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 156-161	1.2	5
898	Access of energetic particles to Titan's exobase: A study of Cassini's T9 flyby. <b>2016</b> , 130, 40-53		18
897	Direct investigation of (sub-) surface preparation artifacts in GaAs based materials by FIB sectioning. <b>2016</b> , 163, 19-30		9
896	GEANT 4 simulation of (99)Mo photonuclear production in nanoparticles. <b>2016</b> , 114, 7-13		0
895	Growth of simplified buffer template on flexible metallic substrates for YBa <sub>2</sub> Cu <sub>3</sub> O coated conductors. <b>2016</b> , 673, 47-53		12
894	Relating the 3D electrode morphology to Li-ion battery performance; a case for LiFePO <sub>4</sub> . <b>2016</b> , 324, 358-367		29

893	Design and performance of an ionisation chamber for the measurement of low alpha-activities. <b>2016</b> , 814, 12-18		14
892	Efficiency and spatial resolution of the CASCADE thermal neutron detector. <b>2016</b> , 828, 242-249		26
891	Misconceptions impairing the validity of the stopping power tables in the SRIM library and suggestions for doing better in the future. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 380, 57-70	1.2	22
890	Induced Electronic and Thermal Effects of 86 MeV Nickel Ions in Bisphenol-A Polycarbonate. <b>2016</b> , 55, 765-773		
889	Capture-gated Spectroscopic Measurements of Monoenergetic Neutrons with a Composite Scintillation Detector. <b>2016</b> , 63, 1227-1235		9
888	Biaxial Texture Evolution in MgO Films Fabricated Using Ion Beam-Assisted Deposition. <b>2016</b> , 45, 3546-3553		2
887	Energy loss of slow Ne ions in Pt and Ag from TOF-MEIS and Monte-Carlo simulations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 76-80	1.2	7
886	Structural Transitions Induced by Ion Irradiation in V2AlC and Cr2AlC. <b>2016</b> , 99, 1769-1777		27
885	The effect of alloying nickel with iron on the supersonic ballistic stage of high energy displacement cascades. <b>2016</b> , 116, 136-142		27
884	Evaluation of the relative TL efficiency of the thermoluminescent detectors to heavy charged particles. <b>2016</b> , 168, 27-32		7
883	Energy Dependence of Fission Product Yields from <sup>235</sup> U, <sup>238</sup> U and <sup>239</sup> Pu for Incident Neutron Energies Between 0.5 and 14.8 MeV. <b>2016</b> , 131, 319-356		41
882	Fabrication of free-standing lithium niobate nanowaveguides down to 50 nm in width. <b>2016</b> , 27, 065301		8
881	Monte Carlo Simulations of 17.9 MeV Energetic Proton Irradiation Effects on bcc-Zirconium Fusionic Materials. <b>2016</b> , 35, 591-596		16
880	Neutron background signal in superheated droplet detectors of the Phase II SIMPLE dark matter search. <b>2016</b> , 76, 48-60		8
879	Influence of $\alpha$ particle radiation on the structural and electronic properties of thin film GaAs solar cells: A simulation study. <b>2016</b> , 127, 3844-3847		5
878	Helium Scanning Transmission Ion Microscopy and Electrical Characterization of Glass Nanocapillaries with Reproducible Tip Geometries. <b>2016</b> , 10, 1918-25		11
877	Characterization of nitrogen species incorporated into graphite using low energy nitrogen ion sputtering. <b>2016</b> , 18, 458-65		18
876	A coupled effect of nuclear and electronic energy loss on ion irradiation damage in lithium niobate. <b>2016</b> , 105, 429-437		34

875	Low energy and low fluence helium implantations in tungsten: Molecular dynamics simulations and experiments. <b>2016</b> , 470, 44-54		41
874	Investigation of electrically-active deep levels in single-crystalline diamond by particle-induced charge transient spectroscopy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 372, 151-155 <sup>1.2</sup>		1
873	Lithium fluoride colour centres-based imaging detectors for proton beam characterization at high doses. <b>2016</b> , 90, 188-191		2
872	The effect of Ni pre-implantation on surface morphology and optical absorption properties of Ag nanoparticles embedded in SiO <sub>2</sub> . <b>2016</b> , 363, 310-317		4
871	Characterization of gold leaves on Greek terracotta figurines: A PIXE-RBS study. <b>2016</b> , 126, 446-453		14
870	Study of hydrogen isotopes behavior in tungsten by a multi trapping macroscopic rate equation model. <b>2016</b> , T167, 014011		20
869	Synthesis and characterization of Y-doped TiH <sub>2</sub> films prepared by magnetron sputtering. <b>2016</b> , 41, 2820-2828	6	
868	Effects of D and He implantation depth on D retention in tungsten under simultaneous DHe ion irradiation. <b>2016</b> , T167, 014042		7
867	Nanopores formation and shape evolution in Ge during intense ionizing irradiation. <b>2016</b> , 225, 323-330		6
866	Radiation Interaction with Matter. <b>2016</b> , 63-100		
865	Decomposition mechanism of indium oxide nanoparticles sandwiched between zinc oxide layers by energetic ions. <b>2016</b> , 42, 2846-2853		3
864	Nanoscale doping profiles within CdTe grain boundaries and at the CdS/CdTe interface revealed by atom probe tomography and STEM EBIC. <b>2016</b> , 150, 95-101		26
863	Cavity Evolution at Grain Boundaries as a Function of Radiation Damage and Thermal Conditions in Nanocrystalline Nickel. <b>2016</b> , 4, 96-103		10
862	The effect of magnetic and non-magnetic ion damage on the surface state in SmB <sub>6</sub> . <b>2016</b> , 400, 62-65		2
861	Measurement of the equilibrium charge state distributions of Ni, Co, and Cu beams in Mo at 2 MeV/u: Review and evaluation of the relevant semi-empirical models. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 373, 117-125	1.2	2
860	The spectrum of Jupiter's Great Red Spot: The case for ammonium hydrosulfide (NH <sub>4</sub> SH). <b>2016</b> , 271, 265-268		17
859	Metal impurity-assisted formation of nanocone arrays on Si by low energy ion-beam irradiation. <b>2016</b> , 652, 334-343		10
858	Radiation enhanced diffusion of cesium, strontium, and europium in silicon carbide. <b>2016</b> , 474, 76-87		11

857	Web-based description of the space radiation environment using the BetheBloch model. <b>2016</b> , 37, 015605		0
856	Interdiffusion in epitaxial, single-crystalline Au/Ag thin films studied by Auger electron spectroscopy sputter-depth profiling and positron annihilation. <b>2016</b> , 107, 133-143		10
855	Modeling injected interstitial effects on void swelling in self-ion irradiation experiments. <b>2016</b> , 471, 200-207		46
854	Raman investigation of lattice defects and stress induced in InP and GaN films by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 372, 29-37	1.2	11
853	Experimental and Monte Carlo study relevant to the cyclotron production of <sup>51</sup> Cr through <sup>51</sup> V(p,n) reaction. <b>2016</b> , 309, 1321-1326		
852	Influence of hydrogen fluence on surface blistering of H and He co-implanted Ge. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 368, 86-89	1.2	1
851	Low-Resistance Titanium Contacts and Thermally Unstable Nickel Germanide Contacts on p-Type Germanium. <b>2016</b> , 37, 482-485		26
850	Investigation of defect clusters in ion-irradiated Ni and NiCo using diffuse X-ray scattering and electron microscopy. <b>2016</b> , 469, 153-161		20
849	Ion-beam-assisted spatial modulation of inhomogeneous broadening of a quantum well resonance: excitonic diffraction grating. <b>2016</b> , 41, 104-6		8
848	A three-dimensional imaging detector based on nano-scale silver-related defects in X- and gamma-ray-irradiated glasses. <b>2016</b> , 55, 02BC01		10
847	Effective atomic number, energy loss and radiation damage studies in some materials commonly used in nuclear applications for heavy charged particles such as H, C, Mg, Fe, Te, Pb and U. <b>2016</b> , 122, 15-23		16
846	Retention and damage in <sup>3</sup> C- <sup>15</sup> C irradiated with He and H ions. <b>2016</b> , 469, 187-193		13
845	Atomic simulations of Fe/Ni multilayer nanocomposites on the radiation damage resistance. <b>2016</b> , 468, 164-170		10
844	Stopping power measurements with the Time-of-Flight (ToF) technique. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 366, 104-116	1.2	4
843	Nuclear excitation functions from 40 to 200 MeV proton irradiation of terbium. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 366, 206-216	1.2	2
842	700 keV Ni +2 ions induced modification in structural, surface, magneto-optic and optical properties of ZnO thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 368, 45-49	1.2	13
841	Vacuum Chromatography of Tl on SiO <sub>2</sub> at the Single-Atom Level. <b>2016</b> , 120, 7122-7132		19
840	Measurement of LET (linear energy transfer) spectra using CR-39 at different depths of water irradiated by 171 MeV protons: A comparison with Monte Carlo simulation. <b>2016</b> , 818, 14-19		3

839	A novel track imaging system as a range counter. <b>2016</b> , 817, 57-62		1
838	Swift heavy ion irradiation induced phase transformation in undoped and niobium doped titanium dioxide composite thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 224-229	1.2	9
837	Probing disorder in isometric pyrochlore and related complex oxides. <b>2016</b> , 15, 507-11		133
836	Toward Optimized Surface Profiles of Nitrogen-Vacancy Centers Activated by Helium Irradiation in Diamond. <b>2016</b> , 16, 2228-33		27
835	Radiation resistance of nano-crystalline iron: Coupling of the fundamental segregation process and the annihilation of interstitials and vacancies near the grain boundaries. <b>2016</b> , 109, 115-127		46
834	Towards the understanding of non-thermal air plasma action: effects on bacteria and fibroblasts. <b>2016</b> , 6, 25286-25292		12
833	Differential cross sections measurement of $^{28}\text{Si}(p,p/\alpha)^{28}\text{Si}$ and $^{29}\text{Si}(p,p/\alpha)^{29}\text{Si}$ reactions for PIGE applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 37-40	1.2	8
832	Effects of trap-assisted tunneling on gate-induced drain leakage in silicon-germanium channel p-type FET for scaled supply voltages. <b>2016</b> , 55, 04ED03		1
831	NPTool: a simulation and analysis framework for low-energy nuclear physics experiments. <b>2016</b> , 43, 045113		19
830	Shape manipulation of ion irradiated Ag nanoparticles embedded in lithium niobate. <b>2016</b> , 27, 145202		23
829	In-situ luminescence monitoring of ion-induced damage evolution in $\text{SiO}_2$ and $\text{Al}_2\text{O}_3$ . <b>2016</b> , 172, 208-218		48
828	Accelerated radiation damage test facility using a 5 MV tandem ion accelerator. <b>2016</b> , 806, 109-116		22
827	Characterization of the recovery of mechanical properties of ion-implanted diamond after thermal annealing. <b>2016</b> , 63, 75-79		6
826	Optical, electrical and microstructural properties of nanocomposite Ag/diamond by Ag ion implantation and subsequent annealing. <b>2016</b> , 123, 160-166		4
825	Comparative study of irradiation effects in graphite and graphene induced by swift heavy ions and highly charged ions. <b>2016</b> , 100, 16-26		34
824	Laser-driven x-ray and neutron source development for industrial applications of plasma accelerators. <b>2016</b> , 58, 014039		65
823	The interplay between biological and physical scenarios of bacterial death induced by non-thermal plasma. <b>2016</b> , 82, 71-83		92
822	Hierarchical reinforcement of randomly-oriented carbon nanotube mats by ion irradiation. <b>2016</b> , 99, 491-501		4



821	Electronic structure modification and Fermi level shifting in niobium-doped anatase titanium dioxide thin films: a comparative study of NEXAFS, work function and stiffening of phonons. <b>2016</b> , 18, 3618-27		22
820	Surface, structural and tensile properties of proton beam irradiated zirconium. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 368, 120-128	1.2	20
819	Rate capability of a cryogenic stopping cell for uranium projectile fragments produced at 1000 MeV/u. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 376, 240-245	1.2	8
818	Regrowth of Ge with different degrees of damage under thermal and athermal treatment. <b>2016</b> , 6, 4576-4586		5
817	Effects of high-power laser irradiation on sub-superficial graphitic layers in single-crystal diamond. <b>2016</b> , 103, 665-671		10
816	Hydrogen analysis depth calibration by CORTEO Monte-Carlo simulation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 161-166	1.2	4
815	Radiation chemical behavior of aqueous butanal oxime solutions irradiated with helium ion beams. <b>2016</b> , 119, 186-193		4
814	Enhanced architectures for soft error detection and correction in combinational and sequential circuits. <b>2016</b> , 56, 212-220		6
813	Production and separation of carrier-free Be. <b>2016</b> , 107, 199-202		2
812	Measurement of proton induced thick target $\gamma$ -ray yields on B, N, Na, Al and Si from 2.5 to 4.1 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 366, 77-82	1.2	12
811	Tailoring the properties of copper nanowires by ion beam irradiation. <b>2016</b> , 119, 44-50		7
810	Channeling energy loss and dechanneling of He along axial and planar directions of Si. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 366, 57-62	1.2	2
809	Ab initio prediction of threshold displacement energies in ZrC. <b>2016</b> , 471, 214-219		11
808	Anisotropic expansion and amorphization of Ga <sub>2</sub> O <sub>3</sub> irradiated with 946 MeV Au ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 374, 40-44	1.2	8
807	Near-surface hydrogen depletion of diamond-like carbon films produced by direct ion deposition. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 230-234	1.2	6
806	A figure of merit for susceptibility of irradiated amorphous metal alloys to thermal spike-induced plasticity. <b>2016</b> , 102, 251-262		2
805	Ion beam induced luminescence studies of sol gel derived Y <sub>2</sub> O <sub>3</sub> :Dy <sup>3+</sup> nanophosphors. <b>2016</b> , 169, 627-634		14
804	Determination of the density of silicon nitride thin films by ion-beam analytical techniques (RBS, PIXE, STIM). <b>2016</b> , 307, 341-346		17

803	Production of $^{186}\text{gRe}$ using low-energy protons. <b>2016</b> , 307, 253-258		3
802	Characterization of a single electrode focusing lens for ion beam deceleration. <b>2017</b> , 45, 12-21		3
801	Dark matter directional detection: comparison of the track direction determination. <b>2017</b> , 2017, 027-027		8
800	Defect engineering of single- and few-layer MoS <sub>2</sub> by swift heavy ion irradiation. <b>2017</b> , 4, 015034		41
799	Observation of delayed two-proton emission in the decay of $^{22}\text{Si}$ . <b>2017</b> , 766, 312-316		21
798	Effects of sequential helium and hydrogen ion irradiation on the nucleation and evolution of bubbles in tungsten. <b>2017</b> , 115, 80-84		13
797	Characterization of M <sub>2</sub> X formed during 5 MeV Fe <sup>2+</sup> irradiation. <b>2017</b> , 485, 154-158		8
796	The effects of ion irradiation on the micromechanical fracture strength and hardness of a self-passivating tungsten alloy. <b>2017</b> , 486, 34-43		6
795	Monte Carlo studies of the interaction of relativistic ions with nuclear emulsion. <b>2017</b> , 841, 72-86		2
794	Collision cascades enhanced hydrogen redistribution in cobalt implanted hydrogenated diamond-like carbon films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 394, 6-11	1.2	5
793	Initial results of tests of depth markers as a surface diagnostic for fusion devices. <b>2017</b> , 12, 1277-1281		6
792	Study of surface exfoliation on 6H-SiC induced by H <sub>2</sub> <sup>+</sup> implantation. <b>2017</b> , 508, 104-111		14
791	Lithography-free positioned GaAs nanowire growth with focused ion beam implantation of Ga. <b>2017</b> , 35, 011803		6
790	Direct Trace Element Analysis of Liquid Blood Samples by In-Air Ion Beam Analytical Techniques (PIXE-PIGE). <b>2017</b> , 89, 1558-1564		9
789	Single- and Double-Strand Breaks of Dry DNA Exposed to Protons at Bragg-Peak Energies. <b>2017</b> , 121, 497-507		14
788	Spectroellipsometric detection of silicon substrate damage caused by radiofrequency sputtering of niobium oxide. <b>2017</b> , 421, 636-642		
787	Comparison of blistering of W bulk and film deposited by magnetron sputtering under helium irradiation. <b>2017</b> , 12, 588-592		10
786	Study of the formation mechanism of hierarchical silicon structures produced by sequential ion beam irradiation and anodic etching. <b>2017</b> , 138, 238-243		2

785	Quasi-atomic layer etching of silicon nitride. <b>2017</b> , 35, 01A102	45
784	A review on single photon sources in silicon carbide. <b>2017</b> , 80, 034502	115
783	Monte Carlo simulation to calculate the rate of <sup>137</sup> Cs gamma rays dispersion in gallium arsenide compound. <b>2017</b> ,	
782	A 3D lateral electrode structure for diamond based microdosimetry. <b>2017</b> , 110, 013503	12
781	Surface functionalization of epitaxial graphene on SiC by ion irradiation for gas sensing application. <b>2017</b> , 403, 707-716	19
780	Modification of the saturation magnetization of exchange bias thin film systems upon light-ion bombardment. <b>2017</b> , 29, 125801	10
779	Characterization of a pixelated CdTe Timepix detector operated in ToT mode. <b>2017</b> , 12, P01018-P01018	8
778	Spectroscopic study of prompt-gamma emission for range verification in proton therapy. <b>2017</b> , 34, 7-17	28
777	Ion-irradiation-induced structural evolution in Ti <sub>4</sub> AlN <sub>3</sub> . <b>2017</b> , 133, 19-23	5
776	Effects of Thickness on the Metal-Insulator Transition in Free-Standing Vanadium Dioxide Nanocrystals. <b>2017</b> , 17, 1762-1767	22
775	Resistance State Locking in CBRAM Cells Due to Displacement Damage Effects. <b>2017</b> , 1-1	4
774	Interdiffusion in amorphous Al <sub>x</sub> Zr <sub>1-x</sub> alloys. <b>2017</b> , 121, 015302	
773	Research on a Neutron Detector With a Boron-Lined Honeycomb Neutron Converter. <b>2017</b> , 64, 1048-1055	9
772	Void and cavity determination in micro-PIXE analysis of composed material using binocular detectors: A computational study. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 404, 189-192	12
771	Proton focusing driven by laser triggered Coulomb explosion. <b>2017</b> , 24, 030703	1
770	Radiolytic Events in Nanostructured Aluminum Hydroxides. <b>2017</b> , 121, 6365-6373	23
769	Synthesis of sponge-like hydrophobic NiBi <sub>3</sub> surface by 200 keV Ar ion implantation. <b>2017</b> , 410, 519-524	3
768	Deuterium retention in recrystallized tungsten irradiated with simultaneous deuterium and neon ion beams. <b>2017</b> , 12, 1288-1293	7

767	Tuning of mechanical and structural properties of 20 $\mu$ M 5 steel using N ion implantation and subsequent annealing. <b>2017</b> , 710, 253-259		6
766	High velocity proton collision with liquid lithium: a time dependent density functional theory study. <b>2017</b> , 19, 9053-9058		10
765	Tungsten Diselenide Patterning and Nanoribbon Formation by Gas-Assisted Focused-Helium-Ion-Beam-Induced Etching. <b>2017</b> , 1, 1600060		28
764	Dynamic energy spectrum and energy deposition in solid target by intense pulsed ion beams. <b>2017</b> , 28, 1		4
763	The influence of the dose assessment method on the LET dependence of the relative luminescence efficiency of LiF:Mg,Ti and LiF:Mg,Cu,P. <b>2017</b> , 98, 34-40		16
762	Indentation behaviour of ion-irradiated X-750 Ni-based superalloy. <b>2017</b> , 97, 101-109		7
761	Potassium self-diffusion in a K-rich single-crystal alkali feldspar. <b>2017</b> , 44, 345-351		9
760	Rn/At and At production with intense mass separated Fr ion beams for preclinical At-based $\alpha$ therapy research. <b>2017</b> , 122, 222-228		14
759	Modifications in physico-chemical properties of 100 MeV oxygen ions irradiated polyimide Kapton-H polymer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 406, 188-192	1.2	16
758	Lattice Location of Mg in GaN: A Fresh Look at Doping Limitations. <b>2017</b> , 118, 095501		29
757	Reactive Ar ion beam sputter deposition of TiO <sub>2</sub> films: Influence of process parameters on film properties. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 395, 17-23	1.2	13
756	The role of Frenkel defect diffusion in dynamic annealing in ion-irradiated Si. <b>2017</b> , 7, 39754		11
755	Single $\alpha$ particle irradiation permits real-time visualization of RNF8 accumulation at DNA damaged sites. <b>2017</b> , 7, 41764		5
754	The surface morphology, structural properties and chemical composition of Cd 1 $\times$ Zn x Te polycrystalline thick films deposited by close spaced vacuum sublimation. <b>2017</b> , 63, 64-71		10
753	Electrical characterization of a graphite-diamond-graphite junction fabricated by MeV carbon implantation. <b>2017</b> , 74, 125-131		7
752	High resolution imaging of 2D distribution of lithium in thin samples measured with multipixel detectors in sandwich geometry. <b>2017</b> , 88, 023706		4
751	Ion beam modification of two-dimensional materials: Characterization, properties, and applications. <b>2017</b> , 4, 011103		114
750	Enhanced superconductivity, Kondo behavior, and negative-curvature resistivity of oxygen-irradiated thin films of aluminium. <b>2017</b> , 95,		2

749	Large electronic sputtering yield of nanodimensional Au thin films: Dominant role of thermal conductivity and electron phonon coupling factor. <b>2017</b> , 121, 095308		18
748	Novel concept for neutron detection: proportional counter filled with B nanoparticle aerosol. <b>2017</b> , 7, 41699		9
747	Monte Carlo track chemistry simulations of the radiolysis of water induced by the recoil ions of the $^{10}\text{B}(n,\alpha)^{7}\text{Li}$ nuclear reaction. 1. Calculation of the yields of primary species up to 350 °C. <b>2017</b> , 7, 10782-10790		5
746	On the threshold for ion track formation in $\text{CaF}_2$ . <b>2017</b> , 19, 023023		14
745	L shell x ray production in high-Z elements using 48 MeV/u fluorine ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 395, 39-51	1.2	9
744	Sulfur-Doped Silicon Photodiode by Ion Implantation and Femtosecond Laser Annealing. <b>2017</b> , 17, 2367-2371		7
743	3D map distribution of metallic nanoparticles in whole cells using MeV ion microscopy. <b>2017</b> , 267, 227-236		6
742	Structural characteristics and optical properties of methylcellulose/polyaniline films modified by low energy oxygen irradiation. <b>2022</b> , 141, 109502		4
741	Electronic excitation-induced tunneling and charge-trapping explored by in situ electrical characterization in $\text{Ni}/\text{HfO}_2/\text{EGa}_2\text{O}_3$ metal/oxide/semiconductor capacitors. <b>2022</b> , 281, 115716		1
740	Thick target neutron spectral yield and dose measurements with natC (p, n) system at intermediate proton energies between 800 MeV. <b>2022</b> , 1034, 166767		0
739	Measurements of linear energy transfer (LET) distributions by CR-39 for a therapeutic carbon ion beam with a new 2D ripple filter. <b>2022</b> , 197, 110193		
738	The effect of some modifier oxides on the radiation shielding properties of zirconia doped sodium borosilicate glasses. <b>2022</b> , 197, 110164		0
737	Effects of swift heavy ions at different fluencies on WC-6Co hard metal alloy. <b>2022</b> , 106, 105865		2
736	$\text{H}_2$ production from the radiolysis of aqueous suspensions of ZnO nanoparticles by 5.5 MeV $\text{He}^{2+}$ ions. <b>2022</b> , 197, 110189		
735	Investigations of thermoluminescence characteristics of $\text{CaSiO}_3\text{:Yb}$ phosphor irradiated with gamma rays and carbon ion beam. <b>2022</b> , 186, 110253		
734	Study on damage mechanisms of silicon carbide Schottky barrier diode caused by heavy ion irradiation. <b>2022</b> ,		
733	Modeling Fission Spikes in Nuclear Fuel using a Multigroup Model of Electronic Energy Transport. <b>2022</b> , 153797		
732	Triple ion beam irradiation of glass-ceramic materials for nuclear fusion technology. <b>2022</b> , 153783		0

- 731 Preparation, microstructure and ion-irradiation damage behavior of Al<sub>4</sub>SiC<sub>4</sub>-added SiC ceramics. **2022**, 0
- 730 Pulsed laser deposition and structural evolution of BaF<sub>2</sub> nanolayers in Eu-doped BaF<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> layered optical nanocomposite thin films. **2022**, 139298
- 729 Transport of an intense proton beam from a cone-structured target through plastic foam with unique proton source modeling. **2022**, 105, 1
- 728 Impact of Nd<sup>3+</sup> additive on the radiation shielding competence of borosilicate glasses fabricated from agro-waste materials. **2022**, 590, 121691 0
- 727 Friction Stir Welding and Self-Ion Irradiation Effects on Microstructure and Mechanical Properties Changes within Oxide Dispersion Strengthened Steel MA956. **2022**, 153795
- 726 Electrochemical co-deposition of Ni and Ni<sub>2</sub>O<sub>3</sub> for composite thin targets preparation: Production of <sup>155</sup>Tb as a case study. **2022**, 110287 0
- 725 Xe-ion-irradiation-induced structural transitions and elemental diffusion in high-entropy alloy and nitride thin-film multilayers. **2022**, 110749 0
- 724 Evidence of structural changes in ion-irradiated graphene independent of the incident ions mass. **2022**, 153701 1
- 723 Measurement of alpha-induced reaction cross-sections on <sup>98</sup>Mo with detailed covariance analysis. **2022**, 58, 0
- 722 Creation of multiple NV centers by phthalocyanine ion implantation.
- 721 Dosimetric characterization of an irradiation set-up for electronic components testing at the TOP-IMPLART proton linear accelerator. **2019**, 1
- 720 Effect of Proton Irradiation Energy on AlGaN/GaN HEMTs fabricated by Ion-implanted Isolation. **2019**,
- 719 Vertical Line Fault Mechanism Induced by Heavy Ions in an SLC NAND Flash. **2019**,
- 718 EVALUATION OF THE PHASE STABILITY, MICROSTRUCTURE AND DEFECTS IN HIGH-ENTROPY CERAMICS AFTER HIGH-ENERGY ION IMPLANTATION. **2022**, 0
- 717 The Effect of Deposition Conditions and Irradiation on the Structure, Substructure, Stress-Strain State, and Mechanical Properties of TiN Coatings. **2022**, 475-484
- 716 Characterization and Modeling of a 1.3 kV Vertical GaN Diode. **2022**,
- 715 Experimental Demonstration of the Thin-Film Liquid-Metal Jet as a Charge Stripper. **2022**, 128, 1
- 714 High efficiency laser-driven proton sources using 3D-printed micro-structure. **2022**, 5, 1

- 713 Perturbed Angular Correlation Technique at ISOLDE/CERN Applied for Studies of Hydrogenated Titanium Dioxide (TiO<sub>2</sub>): Observation of Cd-H Pairs. **2022**, 12, 756
- 712 The Enhanced Swelling Resistance of W/Cu Nanocomposites by Vacancy-Type Defects Self-Recovery. **2022**, 12, 759 0
- 711 Thermal conductivity reduction in (Zr<sub>0.25</sub>Ta<sub>0.25</sub>Nb<sub>0.25</sub>Ti<sub>0.25</sub>)C high entropy carbide from extrinsic lattice defects. **2022**, 10, 611-617 0
- 710 Surface Modification of 304L Stainless Steel and Interface Engineering by HiPIMS Pre-Treatment. **2022**, 12, 727 1
- 709 Effect of Post-irradiation Annealing on Microstructure Evolution and Hardening in GH3535 Alloy Irradiated by Au Ions.
- 708 Multifunctional Irradiation-Induced Defects for Enhancing Thermoelectric Properties of Scandium Nitride Thin Films. 0
- 707 Rapid, uniform, and efficient heat transfer into dense matter using energetic proton beams with finite energy spreads. **2022**, 135, 106070 0
- 706 Structural study of W<sub>2</sub>B obtained via mechanical alloying of W, B<sub>4</sub>C, TiC and graphite before and after He ions irradiation. **2022**, 31, 101201 1
- 705 Characterization of microstructure and hardening of SLM nickel-based alloy irradiated by He ions. **2022**, 566, 153794 0
- 704 Influence of nitrogen interstitials in titanium and nitrogen vacancies in titanium nitride on lattice parameters and bulk modulus - computational study. **2022**, 211, 111509 0
- 703 Investigating the effect of helium ion irradiation on deformation behaviour of Ni-Mo-Cr alloy via in-situ micro-tensile testing. **2022**, 567, 153812 1
- 702 Improved Limit on Tensor Currents in the Weak Interaction from Li<sup>8</sup> Decay. **2022**, 128, 1 1
- 701 Intermetallic cobalt-gallium targets for production of germanium radioisotopes. **2022**, 110307
- 700 Hybrid alpha power source. **2022**,
- 699 Thermal activation of low-density Ga implanted in Ge. **2022**, 120, 201902 1
- 698 Charged-particle emission in neutron reactions on B<sup>10</sup>. **2022**, 105,
- 697 Development of low gain avalanche detectors (LGAD) in frame of the acceptor removal phenomenon.
- 696 Modeling Radiation Damage in Materials Relevant for Exploration and Settlement on the Moon.

- 695 Absolute calibration of Fujifilm BAS-TR image plate response to laser driven protons up to 40 MeV. **2022**, 93, 053303
- 694 High-precision modeling of dynamic etching in high-power magnetron sputtering. **2022**, 55, 325203 ○
- 693 Irradiation-induced microstructural transformations in UO<sub>2</sub> accelerated upon electronic energy deposition. **2022**, ○
- 692 Direct evidence of Be as an amphoteric dopant in GaN. **2022**, 105,
- 691 Measurement of the Ne<sup>18</sup>(p)Na<sup>21</sup> reaction with the ANASEN active-target detector system at . **2022**, 105, ○
- 690 Effect of Ultra-High-Pressure Annealing on Defect Reactions in Ion-Implanted GaN Studied by Positron Annihilation. 2200183 1
- 689 Role of precursor nuclei in heavy-ion induced reactions at low energies. **2022**, 105,
- 688 Superior radiation tolerance via reversible disordering-ordering transition of coherent superlattices. 1
- 687 Ion Implantation Enhanced Exfoliation Efficiency of V<sub>2</sub>AlC Single Crystals: Implications for Large V<sub>2</sub>CTz Nanosheet Production.
- 686 SHI irradiation of water ice at different temperatures: H<sub>2</sub>O<sub>2</sub> and O<sub>3</sub> synthesis and sputtering yield. ○
- 685 Radiological source terms estimation for the Divertor Tokamak Test (DTT) facility. **2022**, 180, 113198
- 684 Investigations of N<sup>+</sup>-ion implanted polymethylmethacrylate for flexible electronics. **2022**, 129, 112521 ○
- 683 Improvements and validation of particle channeling model in GEANT4. *Nuclear Instruments & Methods in Physics Research B*, **2022**, 525, 1-12 1.2
- 682 Modeling ionization quenching in organic scintillators. ○
- 681 Effects of Metal Hydride Coatings at the Electrodes on Neutron Production Rate in a Discharge-Type Fusion Neutron Source. **2022**, 1-6 1
- 680 Emerging Device Architectures for Space Electronics. **2023**, 181-208
- 679 Deformation behaviour of ion-irradiated FeCr: A nanoindentation study.
- 678 The reliabilities of HfO<sub>2</sub>-based ferroelectric devices under swift heavy ion irradiation. ○



- 677 Evaluation of neutron irradiation-induced displacement damage in heat pipe reactor. **2022**, 101216
- 676 A method to predict texture effect on ion beam channeling analysis of polycrystals and the application to study the mosaic spreading effect in highly oriented pyrolytic graphite. **2022**, 131, 225305
- 675 DLTS study of the influence of annealing on deep level defects induced in xenon ions implanted n-type 4H-SiC. 0
- 674 Charge State Effects in Swift-Heavy-Ion-Irradiated Nanomaterials. **2022**, 12, 865 2
- 673 Enhanced ferroelectric and piezoelectricity in 100 MeV Ag<sup>7+</sup> ion-irradiated <math>\langle 011 \rangle</math>-oriented TGS single crystals. **2022**, 128,
- 672 Modulating properties by light ion irradiation: From novel functional materials to semiconductor power devices. **2022**, 43, 063101 0
- 671 Fusion and back-angle quasielastic measurements in Si<sup>30</sup>+Gd<sup>156</sup> near the Coulomb barrier. **2022**, 105,
- 670 A broad analysis of directly and indirectly ionizing radiation interaction parameters of PbF<sub>2</sub>-CaF<sub>2</sub>-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>-Cr<sub>2</sub>O<sub>3</sub> glass system. **2022**, 97, 075306 0
- 669 P<sub>2</sub>O<sub>5</sub>-Pb<sub>3</sub>O<sub>4</sub>-ZnO-Li<sub>2</sub>CO<sub>3</sub>-CuO glasses and their radiation attenuation properties for shielding applications. 1
- 668 Effects of Simulated Solar Wind on Polymethyl Methacrylate Thin Film. **2022**, 12, 1992
- 667 Computational approach of alpha and proton interaction of gadolinium bismuth borate glass system using SRIM program. **2022**, 1
- 666 Charon refractory factory. **2022**, 8,
- 665 Stopping-power calculations and the Levine-Mermin dielectric function for inner shells. **2022**, 105, 1
- 664 Optical, structural, and electrical properties of modified indium-tin-oxide (ITO) films on glass surface by low energy ion implantation. **2022**, 128, 0
- 663 Radiation Effect in Ti-Cr Multilayer-Coated Silicon Carbide under Silicon Ion Irradiation up to 3 dpa. **2022**, 12, 832
- 662 Effect of self-ion with high-energy irradiation on the surface morphology, microstructure and mechanical properties of nanocrystalline TiAlN coating. **2022**, 112041
- 661 Formation of cesium carbonate in ion-implanted graphite, examined with dual-source x-ray photoelectron spectroscopy, density functional theory calculations and thermodynamic modelling. **2022**,
- 660 A photonic integrated circuit-based erbium-doped amplifier. **2022**, 376, 1309-1313 7

- 659 Dislocation structure of tungsten irradiated by medium to high-mass ions. ○
- 658 INFLUENCE OF THE IRRADIATION OF IONS OF DIFFERENT MASS ON THE FORMATION OF SURFACE DEFECTS OF LITHIUM FLUORIDE THIN FILMS. ○
- 657 Compositional Effects of Additively Manufactured Refractory High-Entropy Alloys under High-Energy Helium Irradiation. **2022**, 12, 2014 1
- 656 Hierarchical 2D to 3D micro/nano-histology of human dental caries lesions using light, X-ray and electron microscopy. **2022**, 220, 110829 1
- 655 Charge collection efficiency of scCVD diamond detectors at low temperatures. **2022**, 127, 109184
- 654 Linear Energy Transfer (LET) dependence of graphene oxide dosimeter for different ionizing radiations. **2022**, 203, 111240
- 653 The total and the partial charge-changing cross sections of 40Ar fragmentation on elemental targets at 500 A MeV. **2022**, 1025, 122493
- 652 Effects of preliminary ion beam treatment of carbon nanotubes on structures of interfaces in multi-walled carbon nanotube (M =Ti,Sn) composites: Experimental and theoretical study. **2022**, 169, 110831 ○
- 651 Geometrical aspects of alpha dose rates from UO<sub>2</sub> based fuels. **2022**, 199, 110336 ○
- 650 RDM: An R interface for high-throughput simulation of ion-material interactions using TRIM. **2022**, 279, 108451
- 649 In-situ microstructure observation of oxidized SiC layer in surrogate TRISO fuel particles under krypton ion irradiation. **2022**, 920, 165833
- 648 Enhanced hole transport in Ni/Y<sub>2</sub>O<sub>3</sub>/n-4H-SiC MOS for self-biased radiation detection. **2022**, 1-1 1
- 647 A Combined Theoretical-Experimental Investigation of Thermal Transport in Low-Dose Irradiated Thorium Dioxide.
- 646 Concentric Core-Shell Tracks and Spectroscopic Properties of SrTiO<sub>3</sub> Under Intense Electronic Excitation.
- 645 Spherical nanoindentation stress-strain responses of SIMP steel to synergistic effects of irradiation by H and He ions. **2022**, 33, ○
- 644 Tuning Plasmonic Resonance Damping through Interfacial Defects. **2022**, 126, 11372-11379
- 643 Modeling and Experimental Study of Hysteresis during the Reactive Sputter Deposition of Titanium Oxides and Nitrides Using a Pulsed DC Magnetron. 1065, 215-229
- 642 Impact of Helium Ion Implantation Dose and Annealing on Dense Near-Surface Layers of NV Centers. **2022**, 12, 2234 ○

- 641 Cu ion and adatom interaction with stainless steel and silicon. **2022,**
- 640 Gamma photon and charged particle shielding features of praseodymium based glass matrix. **2022,** 169629
- 639 Synthesis of Nano-Oxide Precipitates by Implantation of Ti, Y and O Ions in Fe-10%Cr: Towards an Understanding of Precipitation in Oxide Dispersion-Strengthened (ODS) Steels. **2022,** 15, 4857
- 638 Crystallization of  $A_3Ln(BO_3)_2$  ( $A = Na, K; Ln = \text{Lanthanide}$ ) from a Boric Acid Containing Hydroxide Melt: Synthesis and Investigation of Lanthanide Borates as Potential Nuclear Waste Forms. 0
- 637 Photoluminescent Bragg curves in lithium fluoride thin films on silicon substrates irradiated with a 35 MeV proton beam. **2022,** 132, 014501 0
- 636 History of heavy r-process elements in galactic cosmic rays from nuclei tracks in meteorite olivine. **2022,** 0
- 635 Foundations of physical vapor deposition with plasma assistance. 2
- 634 Superficial Si nanostructure synthesis by low-energy ion-beam- induced phase separation. **2022,** 154190
- 633 Recovery and recrystallization of warm-rolled tungsten during helium thermal desorption spectroscopy annealing. **2022,** 153914
- 632 A Model for Radiolysis in a Flowing-Water Target during High-Intensity Proton Irradiation.
- 631 A multi-component nanocrystalline FeCrV alloy with improved mechanical properties and excellent irradiation resistance. **2022,** 1
- 630 Effect of cold work deformation on irradiation hardening of vanadium alloys. 0
- 629 Anisotropy of the Electric Field Gradient in Two-Dimensional  $\beta\text{-MoO}_3$  Investigated by  $^{57}\text{Mn}(^{57}\text{Fe})$  Emission Mössbauer Spectroscopy. **2022,** 12, 942 0
- 628 Establishment of multi-beam irradiation facility at Wuhan University. **2022,** 167202 1
- 627 In-depth investigation of low-energy proton irradiation effect on the structural and photoresponse properties of  $\beta\text{-Ga}_2\text{O}_3$  thin films. **2022,** 110944 1
- 626 Characterization of ion-induced microstructural changes in oxygen irradiated  $\text{TiBAl}_2\text{V}$ . 1-20
- 625 Contribution of f-electron excitation to electronic stopping power of platinum for protons. **2022,** 106,
- 624 Short-Range Charge Density Wave and Bandgap Modulation by Au-Implanted Defects in  $\text{TiSe}_2$ .

- 623 Microdosimetry performance of the first multi-arrays of 3D-cylindrical microdetectors. **2022**, 12, ○
- 622 Effect of grain size on the irradiation response of grade 91 steel subjected to Fe ion irradiation at 300°C. ○
- 621 Thermal Spike Responses and Structure Evolutions in Lithium Niobate on Insulator (LNOI) under Swift Ion Irradiation. **2022**, 12, 943 ○
- 620 Changes in electric field noise due to thermal transformation of a surface ion trap. **2022**, 106, ○
- 619 The mechanism of heavy ion incident angle on the reliability of MOS device. **2022**, 135, 114604 ○
- 618 High quality low thermal budget low cost SiO<sub>2</sub> film fabricated by O<sub>2</sub> plasma immersion ion implantation. **2022**, 756, 139385 1
- 617 Simulation of radiation damage via alpha decay in BFS:PC grouts using 4He<sup>2+</sup> ion acceleration. **2022**, 159, 106895 ○
- 616 Optical borophosphate glass system with excellent properties for radiation shielding applications. **2022**, 266, 169568 1
- 615 A new model for predicting proton SEE cross sections based on heavy ion data. *Nuclear Instruments & Methods in Physics Research B*, **2022**, 526, 62-67 1.2
- 614 Understanding effects of chemical complexity on helium bubble formation in Ni-based concentrated solid solution alloys based on elemental segregation measurements. **2022**, 569, 153902 ○
- 613 A novel method to assess the incident angle and the LET of protons using a compact single-layer Timepix detector. **2022**, 199, 110349 ○
- 612 Effect of Cu ion implantation on charge transport of the PbZr<sub>0.52</sub>Ti<sub>0.48</sub>O<sub>3</sub>/FAPb<sub>3</sub> interface. **2022**, 643, 414169 ○
- 611 Atomistically-informed modeling of point defect clustering and evolution in irradiated ThO<sub>2</sub>. **2022**, 562, 111645 ○
- 610 A Monte Carlo simulation for studying grid inefficiency of Frisch grid ionization chamber. **2022**, 188, 110365 ○
- 609 Mechanistic insights into ion-beam induced reduction of graphene oxide: An experimental and theoretical study. **2022**, 199, 110355 ○
- 608 Effects of Au<sup>2+</sup> irradiation induced damage in a high-entropy pyrochlore oxide single crystal. **2022**, 220, 114916 1
- 607 MODELING OF TIME BEHAVIOR OF H, H<sub>2</sub> NEUTRAL DENSITIES, AND H<sub>β</sub> LINE INTENSITY IN THE RF PLASMA OF THE URAGAN-3M TORSATRON. **2019**, 13-16 ○
- 606 Exploring current conduction mechanisms in 6 MeV Si<sup>3+</sup> ion irradiated Au/SiO<sub>2</sub>/beta-Ga<sub>2</sub>O<sub>3</sub> metal-oxide-semiconductor devices. **2020**, ○

- 605 Simulations of recoil trajectories in Dubna Gas-Filled Recoil Separator 2 by GEANT4 toolkit. **2022**, 17, P07033 ○
- 604 Depth-Adjustable Magnetostructural Phase Transition in Fe<sub>60</sub>V<sub>40</sub> Thin Films. ○
- 603 Microstructural changes of proton irradiated Hastelloy-N and in situ micropillar compression testing of one single grain at different local damage levels. **2022**, 153939
- 602 Empirical formula and computer code for the range of charged particles with  $Z = 2$  and  $E = 2.5$  MeV in aluminum.
- 601 Multifunctional Metal Matrix Composites by Friction Stir Additive Manufacturing. 1
- 600 Measurement of mass and total kinetic energy distributions for the C<sub>12</sub>+Lu<sub>175</sub> system. **2022**, 106, ○
- 599 3D Nanoscale Analysis of Implanted Deuterium in Tungsten using Atom Probe Tomography. **2022**, 28, 2102-2104
- 598 Nanoindentation applied to ion-irradiated and neutron-irradiated Fe-9Cr and Fe-9Cr-NiSiP model alloys. **2022**, 132, 045101
- 597 Delithiation dynamics of the LICGC electrolyte out of the voltage limits. **2022**, 102207
- 596 Heavy Ion Irradiation Hardening Study on 4kb arrays HfO<sub>2</sub>-based OxRAM. **2020**, 1
- 595 Impact of High Particle Flux in Radiation Ground Tests with Protons. **2020**,
- 594 Influence Of Formation Conditions, Subsequent Annealing and Ion Irradiation on the Properties of Nanostructured Coatings Based on Amorphous Carbon with Gold, Silver and Nitrogen Additives. **2021**, 124-133
- 593 Confirming the Unusual Temperature Dependence of the Electric-Field Gradient in Zn. **2022**, 12, 1064
- 592 <sup>68</sup>Ga-DOTATATE Prepared from Cyclotron Produced Gallium-68:An Integrated Solution from Cyclotron Vault to Safety Assessment and Diagnostic Efficacy in Neuroendocrine Cancer Patients. jnumed.121.263768
- 591 Depth Profiling of Multilayer Thin Films Using Ion Beam Techniques.
- 590 Heterophase Interface and Surface Functionalization of TiO<sub>x</sub>/TiSi<sub>x</sub> Metastable Nanofilms. **2022**, 9, 2200799 ○
- 589 Ion induced effects and defects on surface, structural and mechanical properties of Ni ion irradiated titanium. **2022**,
- 588 Nuclear magnetic resonance of Li<sup>8</sup> ions implanted in ZnO. **2022**, 106, ○

- 587 Interfacial Cation Mixing and Microstructural Changes in Bilayer GTO/GZO Thin Films After Irradiation.
- 586 Influence of swift heavy ions on aluminum thin films. **2022**,
- 585 Cuprous Oxide Thin Films Implanted with Chromium Ions Optical and Physical Properties Studies. **2022**, 23, 8358
- 584 Directionality and head-tail recognition in the keV-range with the MIMAC detector by deconvolution of the ionic signal. **2022**, 2022, 057
- 583 Outgassing of implanted He via short circuit transport along phase and grain boundaries in vapor co-deposited Cu-W nanocomposites. **2022**, 118306
- 582 Transparent Conductive Oxide Sputtering Damage on Contact Passivation in Silicon Heterojunction Solar Cells with Hydrogenated Nanocrystalline Silicon. 2200651 1
- 581 Unmasking the Resolution Throughput Tradespace of Focused-Ion-Beam Machining. 2111840
- 580 Direct measurement of the low-energy resonances in Ne<sup>22</sup>( $\alpha$ )Mg<sup>26</sup> reaction. **2022**, 106, 0
- 579 Negative muons reveal the economic chaos of Rome AD 68/9 Civil Wars. **2022**, 14, 1
- 578 Mechanism of improved crystallinity by defect-modification in proton-irradiated GaAsPN photovoltaics: Experimental and first-principle calculations approach. **2022**, 132, 065701
- 577 Structural and chemical changes in He<sup>+</sup> bombarded polymers and related performance properties. **2022**, 132, 074701
- 576 Characterisation of Channel Waveguides Fabricated in an Er<sup>3+</sup>-Doped Tellurite Glass Using Two Ion Beam Techniques. **2022**, 10, 337 0
- 575 SPACEDOS: AN OPEN-SOURCE PIN DIODE DOSEMETER FOR APPLICATIONS IN SPACE. **2022**, 198, 611-616 0
- 574 Ion implantation effects on the characteristics of  $\alpha$ -Ga<sub>2</sub>O<sub>3</sub> epilayers grown on sapphire by MOCVD. **2022**, 0
- 573 Heavy ion irradiation induced phase transitions and their impact on the switching behavior of ferroelectric hafnia. **2022**, 132, 064102 0
- 572 Understanding irradiation damage in high-temperature superconductors for fusion reactors using high resolution X-ray absorption spectroscopy. **2022**, 3, 0
- 571 Excitonic performance and ultrafast dynamics in defective WSe<sub>2</sub>. **2022**, 121, 083102 1
- 570 Laser-solid interaction studies enabled by the new capabilities of the iP2 BELLA PW beamline. **2022**, 29, 083102 0

- 569 Unveiling the interaction of nanopatterned void superlattices with irradiation cascades. **2022**, 118282 ○
- 568 Thermal conductivity evaluation of ion irradiated Si<sub>3</sub>N<sub>4</sub> and ZrN ceramics using spatial domain thermoreflectance. **2022**, 132, 075105 1
- 567 Monte Carlo Simulations of Superconducting Tunnel Junction Quantum Sensors for the BeEST Experiment.
- 566 Mechanism of reverse gate leakage current reduction in AlGaN/GaN high-electron-mobility-transistor after 3-MeV proton irradiation. **2022**, 121, 072109
- 565 Uncovering the morphological effects of high-energy Ga<sup>+</sup> focused ion beam milling on hBN single-photon emitter fabrication. **2022**, 157, 074703 2
- 564 On the randomness and correlation in the trajectories of alpha particle emitted from <sup>241</sup>Am: statistical inference based on information entropy. **2022**, 12,
- 563 Visible radiophotoluminescence of colour centres in lithium fluoride: from lasers to versatile radiation sensors. **2022**, 2298, 012001
- 562 Low-energy ion channeling in nanocubes. 1
- 561 Influence of Generated Defects by Ar Implantation on the Thermoelectric Properties of ScN. ○
- 560 Measurements of the Zr<sup>96</sup>( $\mu$ )Mo<sup>99</sup> cross section for astrophysics and applications. **2022**, 106, ○
- 559 Comprehensive characterization of irradiation induced defects in ceria: Impact of point defects on vibrational and optical properties. **2022**, 132, 085105 ○
- 558 Hydrogen targetry in laser-plasma physics. **2022**, 48, 645-650
- 557 New data on Ho( $\mu$ ) reactions and the aspects of <sup>167</sup>Tm and <sup>165</sup>Er production for medical use.
- 556 Driving Third-Order Optical Nonlinearities in Photoluminescent Si Nanoparticles by Nitrogen Co-Implantation in a Silica Matrix. **2022**, 15, 5670
- 555 1 MeV Au<sup>+</sup> ion modification of Fe<sub>3</sub>O<sub>4</sub>-based epitaxial films. **2022**, 13, 035009
- 554 Monte-Carlo-based simulation study of ion-implantation in gallium oxide devices.
- 553 Role of Fermi-level depinning in quenching of V<sup>4+</sup> related photoluminescence in semi-insulating 4H-SiC. **2022**, 37, 095024
- 552 Defect engineered blue photoluminescence in ZnO:Al/TiO<sub>2</sub> heterostructures. **2022**, 132, 065302

- 551 Measuring sub-surface spatially varying thermal conductivity of silicon implanted with krypton. **2022**, 132, 075112 2
- 550 Microstructure Evolution of Reactor Pressure Vessel A508-3 Steel under High-Dose Heavy Ion Irradiation. **2022**, 12, 1091 0
- 549 Endotaxial  $\gamma$ -Fe Nanoparticles in the High-Fluence Iron-Implanted Single-Crystal MgO. **2022**, 12, 1095
- 548 Stopping Force Analysis of  $^{235}\text{U}$  Elemental Fission Product Yields for  $E = 0.11$ – $2.4$  MeV. **2022**, 184, 1-28 0
- 547 Structural, thermal and nuclear shielding properties of lithium lead phosphate glasses: Influence of lithium oxide additive. **2022**, 151, 104340
- 546 Structural stability of REE- $\text{PO}_4$  (REE= $\text{Sm, Tb}$ ) under swift heavy ion irradiation. **2022**, 527, 34-39 0
- 545 Processes controlling helium bubble dynamics at varying temperatures in simulated radioactive materials. **2022**, 25, 101529
- 544 In-situ TEM analysis on early-stage evolution of dislocation loops in  $30\text{ keV H}_2^+$  irradiated W. **2022**, 852, 143730 0
- 543 A Simple Edge Termination Design for Vertical GaN P-N Diodes. **2022**, 69, 5096-5103 2
- 542 Band gap engineering of the top layer of mica by organized defect formation. **2022**, 33, 102283
- 541 Conductive tracks in graphene oxide foils induced by micro beams of MeV helium ions. **2022**, 128, 109281
- 540 Interactions between irradiation defects and nitrogen in  $\gamma$ -Fe: an integrated experimental and theoretical study. **2022**, 239, 118227 0
- 539 ZnO/CdO translocation in  $\text{P}_2\text{O}_5\text{-TeO}_2\text{-ZnO}$  ternary glass systems: A reformative enhancement tool for physical, optical, and heavy-charged particles attenuation properties. **2022**, 268, 169807 2
- 538 Characterization and quenching correction for a 2D real time radioluminescent system in therapeutic proton and carbon charged beams. **2022**, 345, 113781 0
- 537 Ion irradiation of supported graphene: Defect formation and atmospheric doping. **2022**, 284, 115918
- 536 Simultaneous experimental verification of indirect thrust measurement method based on Hall-effect thruster and plasma plume. **2022**, 204, 111384 0
- 535 Analytical model of hydrogen inventory saturation in the subsurface of the wall material and comparison to Reaction-Diffusion simulations. **2022**, 570, 153972
- 534 Investigations on ion irradiation induced modifications in Th 5f occupancy in thoria. **2022**, 570, 153961



533	SAFARI $\square$ low and hyperthermal energy ion scattering simulation. <b>2022</b> , 280, 108479	
532	Damage in Xe-implanted 4H-SiC under severe conditions. <b>2022</b> , 570, 153941	
531	Composition-dependent changes in mechanical property of borosilicate glass induced by electron-ion sequential irradiation. <b>2022</b> , 596, 121880	0
530	High-Fluence Multi-Energy Ion Irradiation for Testing of Materials. <b>2022</b> , 15, 6443	1
529	Swift Heavy Ion-Induced Reactivity and Surface Modifications in Indium Thin Films. <b>2022</b> , 7, 31869-31876	0
528	Photon extraction enhancement of praseodymium ions in gallium nitride nanopillars.	0
527	Molecular Dynamics Simulation of Solar Wind Implantation in the Permanently Shadowed Regions on the Lunar Surface. <b>2022</b> , 49,	0
526	Concentric core-shell tracks and spectroscopic properties of SrTiO <sub>3</sub> under intense electronic excitation. <b>2022</b> , 46, 101612	1
525	50 MeV lithium ion irradiation studies on silicon-germanium heterojunction bipolar transistors at low temperature. <b>2022</b> , 137, 114754	0
524	Investigation of radiation response for III-V binary compound semiconductors due to protons using Geant4. <b>2022</b> , 529, 38-48	0
523	In situ work function measurements of W, WO <sub>3</sub> nanostructured surfaces. <b>2022</b> , 447, 128870	0
522	Characterising the pigment on a Mesolithic cranium from Corsica using ion beam analysis. <b>2022</b> , 529, 24-28	0
521	Physical design of the APEP beam line at CSNS. <b>2022</b> , 1042, 167431	0
520	Backgrounds and blanks in Iodine-129 measurements at the Australian National University. <b>2022</b> , 530, 8-12	0
519	An ion beam spot size monitor based on a nano-machined Si photodiode probed by means of the ion beam induced charge technique. <b>2022</b> , 205, 111392	0
518	Structure and fracture behavior of ion-beam-modified SiC-Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> ceramic composites. <b>2022</b> , 193, 112328	1
517	Study on the reusability of fluorescent nuclear track detectors using optical bleaching. <b>2022</b> , 158, 106863	0
516	TEM based applications in solid state nanopores: From fabrication to liquid in-situ bio-imaging. <b>2022</b> , 162, 103347	1

515	Effects of different silicon content on irradiation defects and hardening in 9Cr ferritic/martensitic steel. <b>2022</b> , 571, 154026	0
514	Disorder and cavity evolution in single-crystalline Ge during implantation of Sb ions monitored in-situ by spectroscopic ellipsometry. <b>2022</b> , 152, 107062	0
513	Control of the irradiation-resistant structure inside MOST films by heat effect. <b>2022</b> , 605, 154622	0
512	Hardening and ductility loss of RAFM steel CLF-1 irradiated with high-energy heavy ions. <b>2022</b> , 572, 154024	0
511	Atomistic simulation of helium diffusion and clustering in plutonium dioxide. <b>2022</b> , 24, 20709-20720	1
510	The electronic stopping power of heavy targets. <b>2022</b> , 157-175	0
509	3D Thermal Spike Simulation: Swift Heavy Ion Irradiation of Embedded a-SiC Nano-Zone Inside 4H-SiC. <b>2022</b> , 25-30	0
508	Improved uranium particle analysis by SIMS using O <sub>3</sub> <sup>+</sup> primary ions.	0
507	Fragmented high-energy heavy ion beams for electronics testing. <b>2022</b> , 1-1	0
506	Radiation Hardness, a New Characterization Technique and Bistability Regarding Methylammonium Containing Perovskite Solar Cells. <b>2022</b> , 135-147	0
505	Diamond surface engineering for molecular sensing with nitrogen vacancy centers. <b>2022</b> , 10, 13533-13569	2
504	Atomic-Scale Study of He Ion Irradiation-Induced Clustering in Zirconium.	0
503	Low-E Glass Improvement by the Understanding and Control of the Ag Growth.	0
502	Taming the Pseudoelastic Response of Nitinol Using Ion Implantation.	0
501	Latent track formation and recrystallization in swift heavy ion irradiation.	0
500	Drastic evolution of point defects in vertically grown ZnO nanorods induced by lithium ion implantation. <b>2022</b> , 24, 23858-23869	0
499	Recording of Superenergetic Electrons and Ions in the High-Current Pulsed Relativistic Electron Beam Generator. <b>2022</b> , 48, 599-605	0
498	Simulation of the Particle Transport Behaviors in Nanoporous Matter. <b>2022</b> , 14, 3563	0

497	Ion distribution and damage profile of Au irradiated GaN. <b>2022,</b>	0
496	New insights on Ni-Si system for microelectronics applications. <b>2022,</b> 264, 111871	0
495	Deep Underground Laboratory Measurement of C13( $\beta$ )O. <b>2022,</b> 129,	1
494	TCAD Simulation of Single Event Effects on Electronic Devices. <b>2022,</b> 2340, 012047	0
493	Structural, morphological, and phase transformation studies of 1.4 MeV Kr ion beam irradiated zirconia thin films.	0
492	Tailoring critical material properties of some ternary glasses through ZnO/CdO alteration: a focusing study on multiple behavioral changes. <b>2022,</b> 128,	1
491	Shockwave and spallation in silver and other materials by sub-ns laser pulse at 10 <sup>16</sup> W/cm <sup>2</sup> intensity.	1
490	Versatile Approach of Silicon Nanofabrication without Resists: Helium Ion-Bombardment Enhanced Etching. <b>2022,</b> 12, 3269	0
489	Interplay of the disorder and strain in gallium oxide. <b>2022,</b> 12,	1
488	First-principles simulation of light-ion microscopy of graphene. <b>2022,</b> 9, 045023	0
487	Single-Nitrogen Vacancy NMR of Amine-Functionalized Diamond Surfaces. <b>2022,</b> 22, 7294-7303	1
486	Temperature evolution of dense gold and diamond heated by energetic laser-driven aluminum ions. <b>2022,</b> 12,	0
485	Distribution of radial dose in water at nanometer scale for ions of the same linear energy transfer: benefits of the concept of annular dose. <b>2022,</b> 97, 105003	0
484	Production and characterisation of <sup>20,22</sup> Ne targets. <b>2022,</b> 96,	0
483	First experimental measurements of 2D microdosimetry maps in proton therapy.	0
482	Direct measurement of the ionization quenching factor of nuclear recoils in germanium in the keV energy range. <b>2022,</b> 82,	0
481	Automated reconstruction of the initial distribution of laser accelerated ion beams from radiochromic film (RCF) stacks. <b>2022,</b> 93, 093306	0
480	Helium-induced morphology evolution in tungsten under thermal treatment.	1

- 479 Materials Genomics Search for Possible Helium-Absorbing Nano-Phases in Fusion Structural Materials. 2203555 ○
- 478 Rethinking radiation effects in materials science using the plasma-focused ion beam. **2022**, 57, 16795-16808 ○
- 477 A knock-on deuteron imager for measurements of fuel and hotspot asymmetry in direct-drive inertial confinement fusion implosions (invited). **2022**, 93, 093507 1
- 476 Cratering Induced by Slow Highly Charged Ions on Ultrathin PMMA Films. **2022**, 10, 96 ○
- 475 Near-Surface Te+125 Spins with Millisecond Coherence Lifetime. **2022**, 129, ○
- 474 Near-Surface Electrical Characterization of Silicon Electronic Devices Using Focused keV-Range Ions. **2022**, 18, ○
- 473 Double-GEM based thermal neutron detector prototype. **2022**, 17, P09018 ○
- 472 Effects of Sn-ion irradiation on local structure and flux pinning properties of MgB2 thin films. **2022**, ○
- 471 Alpha-Particle Generation from H-11B Fusion Initiated by Laser-Accelerated Boron Ions. **2022**, 2022, 1-8 ○
- 470 Diffusing alpha-emitters radiation therapy in combination with temozolomide or bevacizumab in human glioblastoma multiforme xenografts. 12, ○
- 469 The elasto-plastic nano- and microscale compressive behaviour of rehydrated mineralised collagen fibres. ○
- 468 Effects of self-irradiation on deuterium retention and reflectivity of molybdenum, fusion plasma-facing material: Combined experimental and modeling study. **2022**, 132, 125902 ○
- 467 Experimental characterisation of diamond-based neutron spectrometer. **2022**, 17, T09001 ○
- 466 Combinatorial sputter deposition of ultrathick Au-Bi alloy films. ○
- 465 Structural and Electrical Response of Emerging Memories Exposed to Heavy Ion Radiation. **2022**, 16, 14463-14478 ○
- 464 Epitaxial Lateral Overgrowth of Tin Spheres Driven and Directly Observed by Helium Ion Microscopy. **2022**, 126, 16332-16340 ○
- 463 Possible modifications of parchment during ion beam analysis. **2022**, 10, 1
- 462 Nuclear batteries: Current context and near-term expectations. ○

461	Room temperature fabrication of poly-crystalline Si thin films via Al-induced crystallization under 500 keV Xe <sup>+</sup> ion irradiation. <b>2022</b> , 132, 095303	1
460	Observable consequences of self-irradiation damage in a MIMAS-type MOX nuclear fuel as analyzed by x-ray diffraction, electron microprobe analysis, and Raman imaging. A possible methodological approach. <b>2022</b> , 132, 115106	0
459	Role of Metal Selection in the Radiation Stability of Isostructural M-UiO-66 Metal-Organic Frameworks. <b>2022</b> , 34, 8403-8417	2
458	A unified model for TCAD simulation of the charge generated in semiconductors by low-energy alpha particles and protons. <b>2022</b> , 114725	0
457	Self-aligned patterning technique for fabricating high-performance diamond sensor arrays with nanoscale precision. <b>2022</b> , 8,	0
456	Model on degradation of thick solid molecular targets by energetic ion and electron beams. <b>2022</b> , 2340, 012044	0
455	Microstructural evolution, swelling and hardening of CVD-SiC induced by He ions irradiation at 650°C. <b>2022</b> ,	0
454	Experimental Study of Nano-Structural Coatings Formed by Microwave Plasma. <b>2022</b> , 50, 2845-2849	0
453	Tetragonal distortion modified magnetism and anomalous Hall effect of Mn <sub>2</sub> CoAl Heusler alloys through Ar ion irradiation. <b>2022</b> , 55, 475001	0
452	Ion beam stopping power effects on nuclear fusion reactions. <b>2022</b> , 29, 103103	0
451	First direct limit on the 334 keV resonance strength in $^{22}\text{Ne}(\alpha, \gamma)^{26}\text{Mg}$ reaction. <b>2022</b> , 58,	0
450	Measurements of the $^{27}\text{Al}(\text{n}, \text{p})$ Thick Target Yield near Threshold. 1-7	0
449	Unusual charge states and lattice sites of Fe in Al <sub>x</sub> Ga <sub>1-x</sub> N:Mn. <b>2022</b> , 24, 103007	0
448	Recycling potential of mobile phone waste glasses for radiation shielding applications. <b>2022</b> , 110565	0
447	A peridynamic elasto-plastic damage model for ion-irradiated materials. <b>2022</b> , 107806	0
446	Density changes in amorphous silicon induced by swift heavy ions. <b>2022</b> , 106,	1
445	Radiation damage on SiPMs for space applications. <b>2022</b> , 167488	0
444	Gamma-ray and charged particles shielding potency of hard/soft spinel ferrite composites.	0

- 443 Investigation of Ni/Y<sub>2</sub>O<sub>3</sub>/n-4H-SiC metal-oxide-semiconductor structure for high-resolution radiation detection. **2022**, ○
- 442 The rapid growth of He nanobubbles in vicinity of the axis of W nanofibers under fusion-relevant He ion irradiations. **2022**, 154062 ○
- 441 Inner-shell ionisation of Xe<sub>q</sub>+Au and Pb collision systems: MO picture. **2022**, 531, 9-23 ○
- 440 Laser Doppler vibrometry for piezoelectric coefficient (d<sub>33</sub>) measurements in irradiated aluminum nitride. **2022**, 347, 113886 ○
- 439 A hybrid numerical approach to the propagation of charged particle beams through matter for hadron therapy beamline simulations. **2022**, 531, 56-64 ○
- 438 Ion implantation of <sup>109</sup>Ag stable isotope as a tracer in SS316L biomedical implant for failure detection. **2022**, 33, 104563 ○
- 437 A combined theoretical-experimental investigation of thermal transport in low-dose irradiated thorium dioxide. **2022**, 241, 118379 ○
- 436 Study of HTS Nanobridge Josephson Junctions Made by FIB. **2022**, 32, 1-6 2
- 435 Tunable magnetic field source for magnetic field imaging microscopy. **2022**, 242, 113624 ○
- 434 Structural, optical, and magnetic properties of Ag<sup>+</sup>, Mn<sup>+</sup> and Ar<sup>+</sup> ions implanted ZnO thin films: effect of implantation dose and stopping energy. **2022**, 12, 29666-29676 ○
- 433 Damage in InGaN/GaN bilayers upon Xe and Pb swift heavy ion irradiation. **2022**, 24, 25773-25787 ○
- 432 The liquid-lithium target at the soREQ applied research accelerator facility. **2022**, 58, ○
- 431  $\beta$ Nuclear-Recoil Correlation from He<sup>6</sup> Decay in a Laser Trap. **2022**, 129, 1 ○
- 430 Control of magnetoelastic coupling in Ni/Fe multilayers using He<sup>+</sup> ion irradiation. **2022**, 121, 182401 ○
- 429 Diamond surface electric-field noise detection using shallow nitrogen-vacancy centers. **2022**, 106, ○
- 428 Creating two-dimensional solid helium via diamond lattice confinement. **2022**, 13, ○
- 427 Swelling and He-Embrittlement of Austenitic Stainless Steels and Ni-Alloys in Nuclear Reactors. **2022**, 12, 1692 ○
- 426 EBSD coupled indentation: Nanoscale mechanics of lithium metal. **2022**, 101183 ○

425	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> Superconducting Ceramics Incorporated with Different Types of Oxide Materials as Promising Radiation Shielding Materials: Investigation of The Structure, Morphology, and Ionizing Radiations Shielding Performances. <b>2022</b> , 12, 3490	○
424	Temperature Spectra of Interstellar Dust Grains Heated by Cosmic Rays. III. Mixed-composition Grains. <b>2022</b> , 263, 5	○
423	First inverse kinematics measurement of resonances in Be <sup>7</sup> ( $\alpha$ )C <sup>11</sup> . <b>2022</b> , 106,	○
422	Kilotesla plasmoid formation by a trapped relativistic laser beam. <b>2022</b> , 106,	○
421	Exploring Femtosecond Laser Ablation by Snapshot Ultrafast Imaging and Molecular Dynamics Simulation. <b>2022</b> , 2022, 1-11	1
420	Tailoring functional properties of graphene oxide by defect-assisted surface and interface modifications.	○
419	Formation of defects on the surface of LiF crystals under irradiation with different ions mass. 1-14	○
418	Computation of Gamma Buildup Factors and Heavy Ions Penetrating Depths in Clay Composite Materials Using Phy-X/PSD, EXABCal and SRIM Codes. <b>2022</b> , 12, 1512	○
417	Structural stability of Ga <sub>2</sub> O <sub>3</sub> under ion irradiation. <b>2022</b> , 121, 171903	1
416	Supersonic Motion of Atoms in an Octahedral Channel of fcc Copper. <b>2022</b> , 15, 7260	○
415	Radiation effects on the structure and alteration behavior of an SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O glass.	○
414	K X-ray Emission for Slow Oxygen Ions Approaching a Copper Metal Surface. <b>2022</b> , 10, 124	○
413	Micropillar Compression of Additively Manufactured 316L Stainless Steels after 2 MeV Proton Irradiation: A Comparison Study between Planar and Cross-Sectional Micropillars. <b>2022</b> , 12, 1843	1
412	Multi-arrays of 3D cylindrical microdetectors for beam characterization and microdosimetry in proton therapy. 10,	○
411	Development of a simple non-destructive method to quantify low Z elements in ore samples using tantalum as an external current normalizer in external (in-air) PIGE method for Nuclear Forensic applications. <b>2022</b> , 331, 4369-4376	○
410	The Effect of Ne <sup>+</sup> Ion Implantation on the Crystal, Magnetic, and Domain Structures of Yttrium Iron Garnet Films. <b>2022</b> , 12, 1485	○
409	New aspects of the low-energy structure of At <sup>211</sup> . <b>2022</b> , 106,	○
408	The Effects of Total Ionizing Dose on the SEU Cross-Section of SOI SRAMs. <b>2022</b> , 11, 3188	○

- 407 Process design for the manufacturing of soft X-ray gratings in single-crystal diamond by high-energy heavy-ion irradiation. **2022**, 137, 0
- 406 Methodologies for Detecting Quantal Exocytosis in Adrenal Chromaffin Cells Through Diamond-Based MEAs. **2023**, 213-221 0
- 405 Optimizing ion implantation to create shallow NV centre ensembles in high-quality CVD diamond. 0
- 404 Charge carrier motion and effect of fixed oxide charge in a microstructured silicon radiation detector. **2022**, 132, 164501 0
- 403 High Sensitivity Spin Defects in hBN Created by High-Energy He Beam Irradiation. 2201941 1
- 402 Tuning optical bandgap of crystalline MgO by MeV Co ion beam induced defects. **2022**, 128, 0
- 401 The Solar Probe ANalyzer Ions on the Parker Solar Probe. **2022**, 938, 138 1
- 400 Graphene oxide and manganese thiophosphate modifications induced by lasers, ion beams and intercalation process. 1-17 0
- 399 Gamma-ray cross-sections of the  $^{27}\text{Al}(p,p')^{27}\text{Al}$  reaction in the proton energy range 1490-3000 keV. **2022**, 58, 0
- 398 Total and Differential Sputtering Yields Explored by SRIM Simulations. **2022**, 12, 1541 0
- 397 Advances of LINAC-based boron neutron capture therapy in Korea. **2022**, 32, 0
- 396 Effects of substrate rotation during AlSi-HiPIMS/Ti-DCMS co-sputtering growth of TiAlSiN coatings on phase content, microstructure, and mechanical properties. **2022**, 128986 0
- 395 Impact of intragranular misorientation on void swelling and inter-granular cavities after ion irradiation in standard and additive manufacturing 316 L austenitic steels. **2022**, 154102 0
- 394 Effects of different He<sup>+</sup> irradiating ion energies on the evolution behavior of helium bubbles in dispersion-strengthened NiMo<sub>2</sub>O<sub>3</sub>NP alloys. **2022**, 132, 155901 0
- 393 Use of combined linear and nonlinear formalisms applied to the transport of protons and secondary electrons in a Monte Carlo code: Applications for space missions. **2022**, 132, 145103 0
- 392 Modeling tungsten response under helium plasma irradiation: a review. 0
- 391 Combined Au/Ag nanoparticle creation in ZnO nanopillars by ion implantation for optical response modulation and photocatalysis. **2022**, 155556 0
- 390 Clinical dose assessment for scanned carbon-ion radiotherapy using linear energy transfer measurements and Monte Carlo simulations. 0



- 389 Preparation of Actinide Targets at Oregon State University. ○
- 388 Morphology and chemical state of platinum ions implanted into glassy carbon substrates. **2022**, 132, 175303 ○
- 387 Nanostructures evolution assessment and spectroscopic properties modification induced by electronic energy loss in KTaO<sub>3</sub> crystal. **2022**, 223, 111248 1
- 386 GaAs a model system to study the role of electron-phonon coupling on ionization stimulated damage recovery. **2022**, 55, 505301 ○
- 385 hPIC2: a hardware-accelerated, hybrid particle-in-cell code for dynamic plasma-material interactions. **2022**, 108569 ○
- 384 Diamond-based sensors for in vitro cellular radiobiology: Simultaneous detection of cell exocytic activity and ionizing radiation. **2022**, 114876 ○
- 383 Deducing Lunar Regolith Porosity From Energetic Neutral Atom Emission. **2022**, 49, 1
- 382 The <sup>40</sup>Ar(d,p)<sup>41</sup>Ar cross section between 3–7 MeV. **2022**, 190, 110509 ○
- 381 Tailoring surface electronic properties of GO-TiO<sub>2</sub> hybrid nanostructures through interface modifications. **2023**, 609, 155398 ○
- 380 High-quality single-crystalline epitaxial regrowth on pulsed laser melting of Ti implanted GaAs. **2023**, 153, 107191 ○
- 379 Experimental and theoretical investigation on physical, structure and protection features of TeO<sub>2</sub>B<sub>2</sub>O<sub>3</sub> glass doped with PbO in terms of gamma, neutron, proton and alpha particles. **2023**, 202, 110586 ○
- 378 A comprehensive study on structural properties, photon and particle attenuation competence of CoNiFeCr-Ti/Al high entropy alloys (HEAs). **2023**, 931, 167561 ○
- 377 Structural and thermodynamic evolution of an amorphous SiOC ceramic after swift heavy ion irradiation. **2023**, 242, 118475 ○
- 376 EFFECTIVE ATOMIC NUMBERS AND ELECTRON DENSITIES OF GEL DOSIMETERS FOR He, B, C, AND O HIGHLY CHARGED PARTICLES INTERACTION IN THE ENERGY RANGE 10 keV–100 MeV. **2021**, 16, 61-71 ○
- 375 Feasibility study of Samarium-153 production by secondary fast neutron bombardment. **2022**, ○
- 374 Single Event Upsets Under Proton, Thermal, and Fast Neutron Irradiation in Emerging Nonvolatile Memories. **2022**, 10, 114566-114585 ○
- 373 An optimization study for targeted alpha therapy: Ion behaviours and dose calculations within ICRU-compact bone tissue. **2023**, 191, 110552 ○
- 372 Helium and strontium co-implantation into SiC at room temperature and isochronal annealing: Structural evolution of SiC and migration behaviour of strontium. **2023**, 294, 126998 ○

- 371 Role of ion beams and their energies in the properties of zinc tin phosphide thin films. **2023**, 534, 1-10 ○
- 370 A quantitative method to determine the region not influenced by injected interstitial and surface effects during void swelling in ion-irradiated metals. **2023**, 573, 154140 ○
- 369 Swift heavy ion irradiation of thymine at cryogenic temperature. **2023**, 534, 11-15 ○
- 368 A combined rate theory-population balance model of the evolution of irradiation-induced helium bubbles in metals during annealing. **2023**, 573, 154136 ○
- 367 Measurement of X-ray production cross sections for lower-energy (0.7-3 MeV) proton induced Cu\_K, Ag\_L and Au\_M X-rays from thick samples. **2022**, 2326, 012003 ○
- 366 Plasma atomic layer etching of GaN/AlGaN materials and application: An overview. **2022**, 43, 113101 1
- 365 Enhanced irradiation-resistance of polymer-derived SiC by incorporation of multiwalled carbon nanotubes. **2022**, ○
- 364 CMOS Manufacturing Processes. **2023**, 3-36 ○
- 363 Environment-Dependent Radiation Tolerance of Graphene Transistors under Proton Irradiation. 10722-10727 ○
- 362 Effects of swift heavy ion irradiation and annealing on the microstructure and recrystallization of SiC pre-implanted with Sr ions. 1, ○
- 361 Detection of high energy ionizing radiation using deeply depleted graphene oxide semiconductor junctions. **2022**, 132, 184503 ○
- 360 Chemically vapor deposited oxide-based thick film scintillators. ○
- 359 Differential Recruitment of DNA Repair Proteins KU70/80 and RAD51 upon Microbeam Irradiation with  $\alpha$  Particles. **2022**, 11, 1652 ○
- 358 Installation of a solid state neutral particle analyzer array on mega ampere spherical tokamak upgrade. **2022**, 93, 113517 ○
- 357 In-situ TEM investigations on the microstructural evolution of SiC fibers under ion irradiation: Amorphization and grain growth. **2022**, ○
- 356 Neon-concentration dependent retarding effect on the recrystallization of irradiated tungsten: experimental analysis and molecular dynamics simulation. **2022**, ○
- 355 Spectroscopic performance of Ni/4H-SiC and Ti/4H-SiC Schottky barrier diode alpha particle detectors. **2022**, 17, P11014 ○
- 354 Calculating the maximum possible yield for a typical pyroelectric neutron generator. **2022**, 17, P11015 ○

- 353 Ion Lithography of Single Ions Irradiation for Spatially Regular Arrays of Pores in Membranes of Polyethylene Terephthalate. **2022**, 12, 3927 2
- 352 Computational simulation of the bombardment of molecular clump by realistic cosmic ray field employing GEANT4 code. 0
- 351 Absolute response of a proton detector composed of a microchannel plate assembly and a charge-coupled device to laser-accelerated multi-MeV protons. **2022**, 93, 113311 0
- 350 Structure Formation and Regulation of Au Nanoparticles in LiTaO<sub>3</sub> by Ion Beam and Thermal Annealing Techniques. **2022**, 12, 4028 0
- 349 Electronic effects on the radiation damage in high-entropy alloys. **2022**, 118511 0
- 348 ATHENA: An active target detector for the measurement of total cross sections. **2022**, 167777 0
- 347 Ionoluminescence and optical transmission investigation of ZnO(In) fast ceramic scintillator irradiated with swift heavy ions. **2022**, 132, 195901 0
- 346 The Cosmic-Ray Induced Sputtering Process On Icy Grains. 0
- 345 Proton radiation effects on high-speed silicon Mach-Zehnder modulators for space application. **2022**, 65, 0
- 344 Low-E glass improvement by the understanding and control of the Ag growth. **2022**, 155600 0
- 343 Characterisation of a monolithic E-E diamond telescope detector using low energy ion microbeams. **2022**, 159, 106875 0
- 342 Directional detection of dark matter using solid-state quantum sensing. **2022**, 4, 044701 0
- 341 Mechanical property and irradiation resistance of high entropy pyrochlore (Sm<sub>0.2</sub>Eu<sub>0.2</sub>Gd<sub>0.2</sub>Y<sub>0.2</sub>Lu<sub>0.2</sub>)<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>. **2022**, 533, 17-22 0
- 340 Enhanced helium ion irradiation tolerance in a Fe-Co-Ni-Cr-Al-Ti high-entropy alloy with L12 nanoparticles. **2022**, 0
- 339 Deuterium erosion and retention properties on MoAlB ceramics by ion irradiation. **2022**, 111691 0
- 338 Simultaneous enhancement in hardness and He-irradiation tolerance of TiVCr/W medium entropy nanolaminates. **2022**, 168114 0
- 337 Highly stable electrical performances of HfO<sub>2</sub>-based ferroelectric devices under proton irradiation. **2023**, 534, 45-47 0
- 336 Spatially Resolved Dynamics of Cobalt Color Centers in ZnO Nanowires. 2205304 0

- 335 Optimization of Reactive Ion Beam Sputtered Ta<sub>2</sub>O<sub>5</sub> for III-V Compounds. **2022**, 139601 ○
- 334 <sup>236</sup>U analyses with the ETH Zurich MILEA prototype system. **2023**, 534, 61-71 ○
- 333 Transuranium isotopes at ISAC/TRIUMF. **2023**, 534, 90-96 ○
- 332 Novel ultraviolet and ionizing radiation detectors made from TiO<sub>2</sub> wide bandgap semiconductor. **2022**, 1-1 ○
- 331 Domain State Exchange Bias in a Single Layer FeRh Thin Film Formed via Low Energy Ion Implantation. 1
- 330 A new multidisciplinary non-destructive protocol for the analysis of stony meteorites: gamma spectroscopy, neutron and muon techniques supported by Raman microscopy and SEM-EDS. ○
- 329 Total and partial charge changing cross-sections of 300 A MeV Fe<sup>26+</sup> ion beam in different target media. **2023**, 534, 54-60 ○
- 328 Dynamic equilibrium of displacement damage defects in heavy-ion irradiated tungsten. **2023**, 244, 118578 ○
- 327 Ruthenium ion modification of glassy carbon: Implication on the structural evolution and migration behaviour of implanted Ru atoms. **2023**, 534, 72-80 ○
- 326 Improved <sup>26</sup>Al and <sup>10</sup>Be cathode performance and data analysis at KIST. **2023**, 535, 21-28 ○
- 325 Heavy ion irradiation effects on CrFeMnNi and AlCrFeMnNi high entropy alloys. **2023**, 574, 154163 ○
- 324 Atomic-scale study of He ion irradiation-induced clustering in Zirconium. **2023**, 244, 118584 ○
- 323 Radiation transmittance of the optical SiO<sub>2</sub>-based glass system. **2023**, 273, 170385 ○
- 322 DIGE differential cross-section data for <sup>6</sup>Li and <sup>19</sup>F analysis. **2023**, 535, 96-101 ○
- 321 Energy loss of MeV protons in diamond: Stopping power and mean ionization energy. **2023**, 132, 109621 ○
- 320 Activation cross sections of proton-induced reactions on natural platinum up to 30 MeV. **2023**, 192, 110621 ○
- 319 Excitation functions of alpha particle induced nuclear reactions on natBa up to 60 MeV. **2023**, 535, 47-54 1
- 318 Illustrating the atomic structure and formation mechanism of ion tracks in polyethylene terephthalate with molecular dynamics simulations. **2023**, 535, 102-111 ○

- 317 Surface modification of low-background polymers by applying nitrogen ion implantation for electronic substrates of rare event detection. **2023**, 204, 110700 ○
- 316 Fabrication of GaN-air channels for embedded photonic structures. **2023**, 155, 107234 ○
- 315 Sensitivity of ion implantation to low-energy electronic stopping cross-sections. **2023**, 204, 110681 ○
- 314 Analysis of stress in sputter-deposited films using a kinetic model for Cu, Ni, Co, Cr, Mo, W. **2023**, 613, 156000 ○
- 313 Structural responses of heterogeneous nanocrystalline/amorphous laminated alloy under irradiation. **2023**, 27, 101653 ○
- 312 Shielding effectiveness of different polymers and low-density hydrides in a combined radiation shield for crewed interplanetary space missions. **2023**, 205, 110706 ○
- 311 Structural, magnetic and gamma-ray shielding features of cerium doped Mg<sub>2</sub>FeTiO<sub>6</sub> double perovskite. **2023**, 1276, 134762 ○
- 310 Helium radiation blistering mechanisms in tungsten: Ion channeling effects. **2023**, 27, 101664 ○
- 309 Mono-energetic Proton Induced Damages in SiC Power MOSFETs. **2022**, 1-1 ○
- 308 Heavy-Ion-Induced Avalanche Multiplication in Low-Voltage Power VDMosfet. **2021**, ○
- 307 Oxide Damage Induced Leakage Current Degradation in SiC MOSFETs during Heavy-ion Irradiation. **2021**, ○
- 306 Measurement of the Yield of Protactinium Radioisotopes <sup>230,232,233</sup>Pa on Irradiation of ThO<sub>2</sub> Targets by <sup>1,2</sup>H AND <sup>3,4</sup>He Nuclei. **2022**, 132, 34-36 ○
- 305 Strain Engineering on Lithium Niobate Crystal Based SAW Resonators Through Ion Implantation. **2022**, ○
- 304 Method for Determining the Etching Rate in Phosphate Glass Detectors. **2022**, 49, 350-355 ○
- 303 Study on the Lateral Scattering of High Energy Heavy Ions Penetrating through Solids. ○
- 302 Mixed 3D<sup>2D</sup> Perovskite Flexible Films for the Direct Detection of 5 MeV Protons. 2204815 ○
- 301 Study of fusion/fission dynamics in <sup>12</sup>C + <sup>197</sup>Au system. **2022**, 137, ○
- 300 Thermomechanical responses of the drift tube to beam loss at the China spallation neutron source. **2022**, 93, 115113 ○

- 299 Positron annihilation analysis of nanosized metal coatings Zr/Nb after He<sup>+</sup> ion irradiation. ○
- 298 Repair Kinetics of DSB-Foci Induced by Proton and  $\alpha$ -Particle Microbeams of Different Energies. **2022**, 12, 2040 ○
- 297 Application of the LPE-Grown LuAG: Ce Film/YAG Crystal Composite Thermoluminescence Detector for Distinguishing the Components of the Mixed Radiation Field. **2022**, 15, 8708 ○
- 296 Rocks, water, and noble liquids: Unfolding the flavor contents of supernova neutrinos. **2022**, 106, 1
- 295 Measurements of the ionization efficiency of protons in methane. **2022**, 82, ○
- 294 Classification of different post-hyperdoping treatments for enhanced crystallinity of IR-sensitive femtosecond-laser processed silicon. ○
- 293 Sputter Gas Damage in Nanolayered Pt/Co/Ir-based Synthetic Antiferromagnets for Top-Pinned Magnetic Tunnel Junctions. ○
- 292 Applying the Inelastic Thermal Spike Model to the Investigation of Damage Induced by High-Energy Ions in Polymers. 2200339 ○
- 291 On the study of Cu-64 production from 18 MeV proton-induced secondary fast neutron bombardment. ○
- 290 Lead-free inorganic metal perovskites beyond photovoltaics: Photon, charged particles and neutron shielding applications. **2022**, ○
- 289 Anisotropic superconductivity of niobium based on its response to nonmagnetic disorder. **2022**, 106, ○
- 288 Dislocation structure of tungsten irradiated by light ions. **2023**, 63, 026005 ○
- 287 Organic Scintillator-Fibre Sensors for Proton Therapy Dosimetry: SCSF-3HF and EJ-260. **2023**, 12, 11 ○
- 286 Hydrogen Diffusion in Clinopyroxene at Low Temperatures (195°C–400°C) and Consequences for Subsurface Processes. **2022**, 23, ○
- 285 Reconstruction of thermoacoustic emission sources induced by proton irradiation using numerical time reversal. ○
- 284 Wafer-scale nanofabrication of telecom single-photon emitters in silicon. **2022**, 13, 2
- 283 Three-dimensional strain imaging of irradiated chromium using multi-reflection Bragg coherent diffraction. **2022**, 6, ○
- 282 Simulation of the Deposition of Thin-Film Materials Used in the Manufacturing of Devices with Miniaturized Circuits. **2022**, 16, 1221-1230 ○

- 281 Effective self-healing behavior of nanocrystalline-amorphous laminated alloy under irradiation. **2022**, 132, 225105 ○
- 280 Convolutional neural network analysis of X-ray diffraction data: strain profile retrieval in ion beam modified crystals. ○
- 279 A novel method for investigation of the impact of sterilization by gamma radiation on polycaprolactone scaffold. 10, ○
- 278 Microstructure and hardness evolution induced by annealing of ion irradiated LiTaO<sub>3</sub>. **2022**, 156222 ○
- 277 Using Metal-Organic Frameworks to Confine Liquid Samples for Nanoscale NV-NMR. ○
- 276 Sulfur Ion Implantations Into Condensed CO<sub>2</sub> : Implications for Europa. **2022**, 49, ○
- 275 Measurements of the Cumulative Yield of the <sup>103</sup>Ru Radioisotope through the <sup>100</sup>Mo(4He, n + p)<sup>103</sup>Ru Reaction and a Technique for Gas Thermal Separation of <sup>103</sup>Ru from a <sup>100</sup>MoO<sub>3</sub> Target. **2022**, 65, 891-895 ○
- 274 Heavily Doped Zinc Oxide with Plasma Frequencies in the Telecommunication Wavelength Range. 2200181 ○
- 273 Probing the Critical Nucleus Size in the Metal-Insulator Phase Transition of VO<sub>2</sub>. **2022**, 129, ○
- 272 Core-Shell Nanostructures of Tungsten Oxide and Hydrogen Titanate for H<sub>2</sub> Gas Adsorption. 2
- 271 Charged and uncharged radiation shielding performance of CaO+ZnO+Na<sub>2</sub>B<sub>2</sub>O<sub>7</sub> glass system. **2022**, 110673 ○
- 270 Energy-loss enhancement and charge-equilibration time for highly charged xenon ions at near-Bohr velocity in solids. **2022**, 106, ○
- 269 ESPNN: A novel electronic stopping power neural-network code built on the IAEA stopping power database. I. Atomic targets. **2022**, 132, 245103 ○
- 268 Photon extraction enhancement of praseodymium ions in gallium nitride nanopillars. **2022**, 12, ○
- 267 On neutron detection with silicon carbide and its resistance to large accumulated fluence. **2022**, 137, ○
- 266 Lifetime measurements in the yrast band of Po<sup>212</sup> with a shell-model investigation. **2022**, 106, ○
- 265 On the interpretation of confocal spectral depth profiling of color center and carrier concentration by photoluminescence and Raman of implanted <sup>4</sup>HfC. **2022**, ○
- 264 Production of monochromatic  $^{228}\text{Ra}$   $\alpha$ -sources for detector characterization. **2022**, 137, ○

- 263 New Monte-Carlo based simulation program suitable for low-energy ions irradiation in pure materials. **2022**, ○
- 262 Alpha backgrounds in the AMoRE-Pilot experiment. **2022**, 82, ○
- 261 Effect of different pre-existing dislocation densities on the microstructure evolution of W-0.5ZrC alloy during in-situ He<sup>+</sup> irradiation. **2022**, 154206 ○
- 260 Influence of defect dynamics on the nanoindentation hardness in NiCoCrFePd high entropy alloy under high dose Xe<sup>3+</sup> irradiation. **2022**, 144523 ○
- 259 Absence of ferromagnetic behaviour in Mn implanted ZnO. **2022**, 243, ○
- 258 Structural Damage and Recrystallization Response of Garnet Crystals to Intense Electronic Excitation. 2212853 ○
- 257 Determining the bubble nucleation efficiency of low-energy nuclear recoils in superheated C3F8 dark matter detectors. **2022**, 106, ○
- 256 Tuning defect-related optical bands by channeling implants in semiconductors. **2022**, 56, 035103 ○
- 255 Temperature dependence of germanium vacancy centers in high-quality diamond after 300 keV ion implantation. **2022**, 132, 225703 ○
- 254 Parasitic side channel formation due to ion implantation isolation of GaN HEMT. ○
- 253 Radiation-induced D-to-H Exchange in Ices Containing Ethane or Benzene: Reactions and Rate Constants. **2022**, 941, 94 ○
- 252 Impact of MeV Ni Ion-Implanted Defects in Band Modification of MgO. ○
- 251 Halide Perovskite Excitonic Diffraction Grating. 2202152 ○
- 250 Helium-induced damage behaviour in hot-rolled Ni-201/Inconel 617 alloy at elevated temperature. **2022**, 101355 ○
- 249 Timing properties of radioluminescence in nanoparticle ZnS:Ag scintillators. **2022**, 100226 ○
- 248 Facets of reaction mechanism in <sup>6</sup>Li+<sup>181</sup>Ta system. ○
- 247 Probing reaction mechanisms through residual cross section measurement for <sup>7</sup>Li+Zn system. ○
- 246 Damage Effects of Heavy Ion Irradiation on MOST/C Multilayer Films. **2023**, 13, 176 ○



- 245 Surface morphology and carbon structure effects on sputtering: Bridging scales between molecular dynamics simulations and experiments. **2023**, ○
- 244 In-Situ Measurement of 1.8MeV Proton Radiation Effects on Comb-Drive MEMS Resonators. **2023**, 1-1 ○
- 243 Probing Defects and Spin-Phonon Coupling in CrSBr via Resonant Raman Scattering. 2211366 1
- 242 Fast neutron background characterization of the future Ricochet experiment at the ILL research nuclear reactor. **2023**, 83, ○
- 241 Revisiting methods for the assessment of naturally-occurring radioactivity in drinking water. **2023**, 110667 ○
- 240 Modelling simultaneous transport of natural and anthropogenic radionuclides in fractured media □ Diffusion into the heterogeneous layered rock matrix for an arbitrary length decay chain. **2023**, 104138 ○
- 239 Positron annihilation studies of Eurofer97/ODS steels after helium ion implantation. **2023**, 101369 ○
- 238 Modulation of the Work Function of TiO<sub>2</sub> Nanotubes by Nitrogen Doping: Implications for the Photocatalytic Degradation of Dyes. **2023**, 6, 50-60 ○
- 237 Atomic-displacement threshold energies and defect generation in irradiated EGa<sub>2</sub>O<sub>3</sub>: A first-principles investigation. **2023**, 133, 015703 ○
- 236 Optical characterization of the impact of 100 keV protons on the optical properties of ZrO<sub>2</sub> films prepared by ALD on fused silica substrates. ○
- 235 Bonding, retention and thermal stability of shallow nitrogen in diamond (100) by low energy nitrogen implantation. **2023**, 102649 ○
- 234 The Structure, Property, and Ion Irradiation Effects of Pyrochlores: A Comprehensive Review. **2023**, 13, 143 ○
- 233 Meteorite Parent Body Aqueous Alteration Simulations of Interstellar Residue Analogs. ○
- 232 Fabrication and Evaluation of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-IProbe for Scanning Probe Microscopy. **2023**, 1-4 ○
- 231 Ionisation of inner T Tauri star discs: effects of in-situ energetic particles produced by strong magnetic reconnection events. ○
- 230 Spectral tracking of proton beams by the Timepix3 detector with GaAs, CdTe and Si sensors. **2023**, 18, C01022 ○
- 229 Entrapment and thermal stability of low energy Argon implanted into diamond studied by in-situ X-ray photoelectron spectroscopy and thermal programmed desorption. **2023**, 156358 ○
- 228 Studies on irradiated photovoltaic cells by proton beam in a plasma focus device. **2023**, 110663 ○

- 227 Predicting and Accessing Metastable Phases. ○
- 226 Scanning Transmission Ion Microscopy Time-of-Flight Spectroscopy Using 20 keV Helium Ions. ○
- 225 The Microstructure of Zr/Nb Nanoscale Multilayer Coatings Irradiated with Helium Ions. **2023**, 13, 193 ○
- 224 Gas gain measurement for charged particle spectroscopy using glass GEM in low-pressure P-10 gas. **2023**, 18, P01001 ○
- 223 Microstructural and mechanical property evolution of Ar<sup>9+</sup> ion irradiated Zr-based alloys [Effect of initial microstructure and alloying addition. 1-22 ○
- 222 Estimating the dimensional change behavior of nuclear graphite with heavy-ion irradiation-induced bending. **2023**, 204, 357-366 ○
- 221 Front-side and back-side secondary ion mass spectrometry analyses on advanced doping processes for ultra-large scale integrated circuit: A case study. **2023**, 766, 139654 ○
- 220 Irradiation hardening and deuterium retention behaviour of tungsten under synergistic irradiations of 3.5 MeV Fe<sup>13+</sup> ions and deuterium plasma. **2023**, 34, 101358 ○
- 219 Correlation between radiation resistance and structural factors of ABO<sub>3</sub>-type perovskites. **2023**, 536, 88-96 ○
- 218 Microstructural evolution in tungsten binary alloys under proton and self-ion irradiations at 800°C. **2023**, 575, 154239 ○
- 217 Development towards 53Mn Accelerator Mass Spectrometry capabilities at the University of Notre Dame. **2023**, 536, 1-6 ○
- 216 The suppression of He bubble growth in Ni-Mo-Cr alloy by yttrium doping: Irradiation experiment combined with the first-principles calculation. **2023**, 226, 115270 ○
- 215 Taming the Pseudoelastic Response of Nitinol Using Ion Implantation. **2023**, 226, 115261 ○
- 214 He bubble growth in nickel simulated by object kinetic Monte Carlo. **2023**, 576, 154231 ○
- 213 GPU-accelerated artificial neural network potential for molecular dynamics simulation. **2023**, 285, 108655 ○
- 212 Annular energy and radial dose distributions study for a wide range of ions of different equal LET groups in water. **2023**, 206, 110771 ○
- 211 Cavity evolution and void swelling in dual ion irradiated tempered martensitic steels. **2022**, 154201 ○
- 210 High conductivity Ga<sub>2</sub>O<sub>3</sub> formed by hot Si ion implantation. **2022**, 121, 262101 ○

209	Radiation-Tolerant Proton Detector Based on the MAPbBr <sub>3</sub> Single Crystal.	0
208	Detection of ferric iron in an exsolved lunar pyroxene using electron energy loss spectroscopy (EELS): Implications for space weathering and redox conditions on the Moon.	0
207	Tuning heterogeneous ion-radiation damage by composition in Ni <sub>x</sub> Fe <sub>1-x</sub> binary single crystals.	0
206	Cluster structure of C11 investigated with a breakup reaction. <b>2023</b> , 107,	0
205	Helium-driven element depletion and phase transformation in irradiated Ti <sub>3</sub> SiC <sub>2</sub> at high temperature. <b>2023</b> ,	0
204	Deuteron and $\alpha$ -particle-induced nuclear reactions on <sup>45</sup> Sc: activation cross section measurement and thick target yield evaluation.	0
203	Photovoltaics and nuclear energy conversion for space power. <b>2023</b> , 157-171	1
202	Electronic stopping power of magnesium including inner-electron excitation. <b>2023</b> , 107,	0
201	Investigation of the I <sub>V</sub> characteristics of n+/n homojunctions introduced by heavy ion irradiation in CdZnTe crystals.	0
200	Metal oxide barrier layers for terrestrial and space perovskite photovoltaics.	0
199	Analysis of Single Event Transients in Arbitrary Waveforms using Statistical Window Analysis. <b>2023</b> , 1-1	0
198	Overview of Polyethylene Terephthalate Foils Patterned Using 10 MeV Carbon Ions for Realization of Micromembranes. <b>2023</b> , 14, 284	1
197	Natural and enriched Cr target development for production of Manganese-52. <b>2023</b> , 13,	0
196	Perovskite solar cells on the horizon for space power systems. <b>2023</b> , 175-195	0
195	Development of the Dual-Beam Ion Irradiation Facility for Fusion Materials (DiFU). <b>2023</b> , 16, 1144	0
194	(Na, Zr) and (Ca, Zr) Phosphate-Molybdates and Phosphate-Tungstates: II Radiation Test and Hydrolytic Stability. <b>2023</b> , 16, 965	0
193	Low-Energy Ion-Induced Single-Event Burnout in Gallium Oxide Schottky Diodes. <b>2023</b> , 1-1	0
192	Proton and Electron Irradiations of CH <sub>4</sub> :H <sub>2</sub> O Mixed Ices. <b>2023</b> , 11, 19	0

- 191 Determination of uranium and thorium contents in various material samples of Morocco using a new Monte Carlo code for evaluating the mean critical angle of etching of the CR-39 and LR-115 type II SSNTDs. **2023**, 261, 107117 ○
- 190 Tunable Dimensionality of Pinning Centers From Silver-Ion Irradiation of REBCO Coated Conductors. **2023**, 33, 1-5 ○
- 189 Prospects of Searches for Unstable States in Relativistic Fragmentation of Nuclei. **2022**, 85, 528-539 ○
- 188 An Investigation on Production Routes of  $^{230}\text{U}$  Radioisotope Used in Targeted Alpha Therapy by Different Level Density Models. **2022**, 77, 878-885 ○
- 187 A novel Ni/Y2O3/4H-SiC heteroepitaxial metaloxide semiconductor (MOS) betavoltaic cell. **2023**, 34, ○
- 186 Evaluation of the Minority-Carrier Lifetime of IMM3J Solar Cells under Proton Irradiation Based on Electroluminescence. **2023**, 13, 297 ○
- 185 Compact high repetition rate Thomson parabola ion spectrometer. **2023**, 94, 023505 ○
- 184 Oblique nanomachining of gallium arsenide explained using AFM experiments and MD simulations. **2023**, 90, 125-138 ○
- 183 Surface characterization of CaF2 crystals irradiated with MeV ions below charge state equilibrium. **2023**, 536, 132-137 ○
- 182 MACHINA, the Movable Accelerator for Cultural Heritage In-situ Non-destructive Analysis: project overview. ○
- 181 Modelling the strain build-up in nitrogen implanted tungsten films on silicon substrates. **2023**, 537, 81-87 ○
- 180 Role of magnetic field and bias configuration on HiPIMS deposition of W films. **2023**, 458, 129343 ○
- 179 Reduced He ion irradiation damage in ZrC-based high-entropy ceramics. **2023**, 1-14 ○
- 178 In situ investigation of ion irradiation-induced amorphization of  $(\text{Ge}_2\text{Sb}_2\text{Te}_5)_{1-x}\text{C}_x$  [0 ≤ x ≤ 0.12]. **2023**, 133, 135302 ○
- 177 Production and characterization of a  $^{222}\text{Rn}$ -emanating stainless steel source. **2023**, 194, 110666 ○
- 176 Enhancing the photocatalytic properties of doped TiO2 nanowires grown by seed-assisted thermal oxidation. **2023**, 771, 139783 ○
- 175 High hole mobility and non-localized states in amorphous germanium. **2023**, 11, 041115 ○
- 174 Results from single event effect tests with MIMOSIS-1. **2023**, 18, C04002 ○

- 173 Measurement of total and partial cross sections of the  $^{90}\text{Zr}(p,\gamma)^{91}\text{Nb}$  reaction with in-beam  $\gamma$ -ray spectroscopy. **2023**, 59, ○
- 172 Charge stabilization of shallow nitrogen-vacancy centers using graphene/diamond junctions. **2023**, 122, 141601 ○
- 171 Predicting electronic stopping powers using stacking ensemble machine learning method. **2023**, 538, 8-16 ○
- 170 Performance of low-energy AMS measurement of  $^{10}\text{Be}$  at Tianjin University. **2023**, 538, 192-197 ○
- 169 Formation of crystalline  $\text{Si}_{1-x}\text{Ge}_x$  top layers by ion implantation in crystalline silicon. **2023**, 538, 17-23 ○
- 168 The elasto-plastic nano- and microscale compressive behaviour of rehydrated mineralised collagen fibres. **2023**, ○
- 167 The effect of pre-damage distribution on deuterium-induced blistering and retention in Tungsten. **2023**, 189, 113494 1
- 166 Application of ion implantation as a tool to study neutron induced morphological changes in HOPG and RBMK-1500 reactor graphite. **2023**, 538, 218-226 ○
- 165 Mechanical behavior of cold-worked, precipitation-hardened Inconel X-750 before and after helium-implantation. **2023**, 199, 112810 ○
- 164 Deuterium and helium retention in W and W-Ta coatings irradiated with energetic ion beams. **2023**, 538, 41-46 ○
- 163 High-energy heavy ion irradiation of HOPG. **2023**, 578, 154370 ○
- 162 A multiscale and multiphysics framework to simulate radiation damage in nano-crystalline materials. **2023**, 578, 154347 ○
- 161 Multi-length scale characterization of point defects in thermally oxidized, proton irradiated iron oxides. **2023**, 28, 101762 ○
- 160 A 30 MeV-cyclotron-based quasi-monoenergetic neutron source. **2023**, 55, 1559-1566 ○
- 159 Recycling of waste cathode-ray tube glasses as building materials for shielding structures in medical and nuclear facilities. **2023**, 376, 131029 ○
- 158 A gas-filled recoil separator, SHANS2, at the China Accelerator Facility for Superheavy Elements. **2023**, 1050, 168113 ○
- 157 Monte Carlo simulations of ion channeling in the presence of dislocation loops: New development in the McChasy code. **2023**, 538, 198-204 ○
- 156 Comparison of PMMA shrinkage in ion beam lithography: PMMA on glass substrate vs free-standing PMMA film. **2023**, 538, 123-130 ○

- 155 Coulomb explosion of BeO molecular ions Revisited. **2023**, 538, 205-211 ○
- 154 Helium focused ion beam induced subsurface damage on Si and SiC substrates: experiments and generative deep neural network modeling via position-dependent input. **2023**, 24, 3363-3382 ○
- 153 Surface morphologies, chemical compositions and luminescent properties of ZnO thin films flattened by ion milling procedure. **2023**, 11, 100105 ○
- 152 Evaluation of a therapeutic carbon beam using a G2000 glass scintillator. **2023**, 196, 110753 ○
- 151 LIME A gas TPC prototype for directional Dark Matter search for the CYGNO experiment. **2023**, 1051, 168207 ○
- 150 Conducting surface layers formed by hydrogenation of O-implanted Ga<sub>2</sub>O<sub>3</sub>. **2023**, 945, 169258 ○
- 149 Thermal diffusivity variation assessment on Radio-Frequency Quadrupole Cu-OF copper due to proton irradiation. **2023**, 539, 179-189 ○
- 148 The preparation of LiF target for reactions involving <sup>7</sup>Li target. **2023**, 212, 112055 ○
- 147 In situ studies on the evolution of damage microstructures in tungsten under heavy ion irradiation and post annealing. **2023**, 160, 104677 ○
- 146 Microstructures, mechanical properties, and irradiation tolerance of the Ti<sub>2</sub>CrNb<sub>2</sub>Mo refractory high-entropy alloys. **2023**, 157, 107873 ○
- 145 Ho and Nd ion beam modifications of ZnO thin films. **2023**, 301, 127669 ○
- 144 Simulations and analysis tools for charge-exchange (d, <sup>2</sup>He) reactions in inverse kinematics with the AT-TPC. **2023**, 1051, 168213 ○
- 143 Characterization and applications of highly optical transparency tellurite glasses doped with Er<sup>3+</sup>, Tm<sup>3+</sup>, and Nd<sup>3+</sup>. **2023**, 281, 170825 ○
- 142 Measurement, evaluation and benchmarking of differential cross sections for proton elastic scattering on natO in the energy range E<sub>p</sub>=40 MeV, suitable for EBS. **2023**, 539, 15-21 ○
- 141 Effects of simultaneous proton irradiation on the corrosion of commercial alloys in molten fluoride salt. **2023**, 217, 111154 ○
- 140 An extensive survey on radiation protection features of novel hafnium iron-borophosphate glasses: Experimental and theoretical study. **2023**, 160, 104690 ○
- 139 Monitoring of alpha-decay radiation damage in a <sup>241</sup>Am-doped glass-ceramic material. **2023**, 580, 154397 ○
- 138 Mechanical design of target holder for irradiation damage experiment at high power. **2023**, 1052, 168246 ○

- 137 Extraordinary radiation tolerance of a Ni nanocrystal-decorated carbon nanotube network encapsulated in amorphous carbon. **2023**, 155, 253-261 ○
- 136 Helium bubbles in Gd<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub> borosilicate glass-ceramic composites. **2023**, 581, 154424 ○
- 135 Prompt-gamma fall-off estimation with C-ion irradiation at clinical energies, using a knife-edge slit camera: A Monte Carlo study. **2023**, 107, 102554 ○
- 134 Tritium-titanium target degradation due to deuterium irradiation for DT neutron production. ○
- 133 The effects of radiation-induced grain subdivision and dislocations on the fracture properties of uranium dioxide. **2023**, 577, 154297 ○
- 132 Irradiation-induced strain localization and strain burst suppression investigated by microcompression and concurrent acoustic emission experiments. **2023**, 199, 112780 ○
- 131 Helium ions irradiation of tantalum-zirconium carbide thin films: The effect of acetylene gas contents. **2023**, 208, 110927 ○
- 130 Morphology and chemical composition of Si-ion-irradiated zirconolite glass-ceramic. **2023**, 43, 3610-3620 ○
- 129 Delivery of proton FLASH at the TRIUMF Proton Therapy Research Centre. **2023**, 1052, 168243 ○
- 128 Investigating changes in the diffuse reflectance spectra of BaSO<sub>4</sub> powders modified with SiO<sub>2</sub> nanoparticles exposed to proton irradiation. **2023**, 539, 62-67 ○
- 127 Combining MD-LAMMPS and MC-McChasy2 codes for dislocation simulations of Ni single crystal structure. **2023**, 540, 38-44 ○
- 126 On quantitative off-axis Scanning Transmission Ion Microscopy (STIM). **2023**, 540, 51-61 ○
- 125 120 MeV swift Au<sup>9+</sup> ion induced phase transition in ZrO<sub>2</sub>: monoclinic to tetragonal and cubic to tetragonal structure. **2023**, 35, 135401 ○
- 124 Atomic displacement damage energy model up to high recoil energy. **2023**, 536, 104-112 ○
- 123 Novel effects of grain size and ion implantation on grain boundary segregation in ion irradiated austenitic steel. **2023**, 246, 118714 ○
- 122 Analysis of Ti nanolayers irradiated with Xe<sup>q+</sup> ions using synchrotron radiation based X-ray reflectometry. **2023**, 536, 126-131 ○
- 121 Deterioration of irradiation resistance of ODS-F/M steel under high concentration of helium. **2023**, 577, 154293 ○
- 120 Radiation shielding properties of low-density Ti-based bulk metallic glass composites: a computational study. **2023**, 98, 035003 ○

- 119 Proton radiation effects on electronic defect states in MOCVD-grown (010)  $\text{EGa}_2\text{O}_3$ . **2023**, 133, 045702 ○
- 118 Early-stage aqueous corrosion-related defects in heavy ion irradiated P92 ferritic/martensitic alloy. **2023**, 536, 138-143 ○
- 117 Effect of surface modification by  $\text{Ar}^+$  ion irradiation on thermal hysteresis of  $\text{VO}_2$ . **2023**, 133, 045305 ○
- 116 Thermal versus radiation-assisted defect annealing in  $\text{EGa}_2\text{O}_3$ . **2023**, 41, 023101 ○
- 115 Fabrication of single color centers in sub-50nm nanodiamonds using ion implantation. **2023**, 12, 485-494 1
- 114 Effect of irradiation temperature on radiation hardening of CLF-1 steel. **2023**, 189, 113488 ○
- 113 Cosmic-ray sputtering of interstellar ices in the electronic regime. **2023**, 671, A156 ○
- 112 Two-dimensional spin systems in PECVD-grown diamond with tunable density and long coherence for enhanced quantum sensing and simulation. **2023**, 11, 021101 ○
- 111 Molecular dynamics simulation of surface phenomena due to high electronic excitation ion irradiation in amorphous silica. **2023**, 77, ○
- 110 4H-SiC Schottky diode radiation hardness assessment by IBIC microscopy. **2023**, 537, 14-22 ○
- 109 Induction of DNA strand breaks and oxidative base damages in plasmid DNA by ultra-high dose rate proton irradiation. 1-8 ○
- 108 Significantly improved strength and plasticity of a refractory high-entropy alloy at small length scale. **2023**, 867, 144729 ○
- 107 Proton Bragg peak imaging by colour centre radiophotoluminescence in lithium fluoride thin film radiation detectors on silicon. **2023**, 34, ○
- 106 Flexible fully organic indirect detector for megaelectronvolts proton beams. **2023**, 7, 1
- 105 Response of Bilayer and Trilayer Graphene to High-Energy Heavy Ion Irradiation. **2023**, 16, 1332 ○
- 104 Surface Characterization and Electrical Properties of Low Energy Irradiated PANI/PbS Polymeric Nanocomposite Materials. **2023**, 11, 74 ○
- 103 Low energy irradiation induced effects on the surface characteristics of polydimethylsiloxane polymeric films. **2023**, 31, 53-63 ○
- 102 Searches for Massive Neutrinos with Mechanical Quantum Sensors. **2023**, 4, ○



- 101  $\gamma$  ray emission in proton-induced nuclear reactions on natC and Mylar targets over the incident energy range,  $E = 30$ – $200$  MeV. Astrophysical implications. **2023**, 1032, 122622 ○
- 100 Photoluminescent properties of the SiO<sub>2</sub>/Si system with ion-synthesized hexagonal silicon of the 9R-Si phase: Effect of post-implantation annealing. **2023**, 537, 60-64 ○
- 99 Cyclotron production of <sup>103</sup>Pd using a liquid target. **2023**, 118-119, 108328 ○
- 98 A new high parallel-field spectrometer at TRIUMF's ENMR facility. **2023**, 94, 023305 ○
- 97 Electroluminescence of negatively charged single NV centers in diamond. **2023**, 122, 072101 ○
- 96 Simulation of the Irradiation Cascade Effect of 6H-SiC Based on Molecular Dynamics Principles. **2023**, 14, 455 ○
- 95 Investigation of proton-induced excitation functions on natural tungsten up to 18 MeV. **2023**, 537, 88-94 ○
- 94 Solar wind H<sup>+</sup> fluxes at 1 AU for solar cycles 23 and 24. **2023**, ○
- 93 Heavy Ion Displacement Damage Effect in Carbon Nanotube Field Effect Transistors. **2023**, 15, 10936-10946 ○
- 92 Energy-efficient physical vapor deposition of dense and hard Ti-Al-W-N coatings deposited under industrial conditions. **2023**, 227, 111753 ○
- 91 Cyclotron-Based Production of <sup>67</sup>Cu for Radionuclide Theranostics via the <sup>70</sup>Zn(p,n)<sup>67</sup>Cu Reaction. **2023**, 16, 314 ○
- 90 Ion-Beam Synthesis of Structure-Oriented Iron Nanoparticles in Single-Crystalline Rutile TiO<sub>2</sub>. **2023**, 13, 355 ○
- 89 Topography of high-speed steel substrates sputter cleaned by an Ar/Ti cathodic arc plasma. **2023**, 458, 129344 ○
- 88 Effect of electronic stopping in molecular dynamics simulations of collision cascades in gallium arsenide. **2023**, 7, ○
- 87 Secondary particle predictions in quasifree proton scattering reactions in the 100–50 MeV energy range. **2023**, 107, ○
- 86 Ion Irradiation Effects on Two-Dimensional MXene Ti<sub>2</sub>C for Applications in Extreme Conditions: Combined Ab Initio and Monte Carlo Simulations. **2023**, 6, 3463-3471 ○
- 85 The Effect of Black-Dot Defects on FeCrAl Radiation Hardening. **2023**, 13, 458 ○
- 84 Analysis of single event effects by heavy ion irradiation of Ga<sub>2</sub>O<sub>3</sub> metal-oxide-semiconductor field-effect transistors. **2023**, 133, 085701 ○

- 83 First application of Markov chain Monte Carlo-based Bayesian data analysis to the Doppler-shift attenuation method. **2023**, 839, 137801 ○
- 82 Multiple Tin-Vacancy Centers in Diamond with Nearly Identical Photon Frequency and Linewidth. **2023**, 19, ○
- 81 Accelerator techniques and nuclear data needs for ion beam analysis of wall materials in controlled fusion devices. **2023**, 10, ○
- 80 The SHI irradiation induced transition to negative dielectric constant phase in K<sub>2</sub>Bi<sub>4</sub>Ti<sub>4</sub>WO<sub>18</sub>. 11, ○
- 79 Investigations on tissue equivalence of selected biomaterials through radiological parameters. **2023**, ○
- 78 A Methodology for the Discrimination of Alpha Particles from Other Ions in Laser-Driven Proton-Boron Reactions Using CR-39 Detectors Coupled in a Thomson Parabola Spectrometer. **2023**, 2023, 1-12 ○
- 77 <sup>141</sup>Pr( $\beta$ ): New Cross-Section Data With Special Reference to <sup>140</sup>Nd Production for Medicine. 1-12 ○
- 76 Fabrication and characterization of high-resolution 4H-SiC epitaxial radiation detectors for challenging reactor dosimetry environments. **2023**, 278, 01003 ○
- 75 Effects of vapor hydration and radiation on the leaching behavior of nuclear glass. **2023**, 578, 154368 ○
- 74 Tuning electrical properties in Ga<sub>2</sub>O<sub>3</sub> polymorphs induced with ion beams. **2023**, 133, 095701 ○
- 73 Measuring the cross section of the N<sup>15</sup>( $\alpha$ )<sup>19</sup>F reaction using a single-fluid bubble chamber. **2023**, 107, ○
- 72 Online monitoring of a proton beam with perfluorinated polymer optical fibre. **2023**, ○
- 71 Structural Properties of He-Irradiated Zr/Nb Multilayer Investigated by Grazing Incidence X-ray Diffraction. **2023**, 13, 451 ○
- 70 Study of a planar cascaded GEM TEPC with sealed chamber for the radiation detection in microdosimetry. **2023**, 18, T03001 ○
- 69 Dislocation density transients and saturation in irradiated zirconium. **2023**, 164, 103590 ○
- 68 Fractal characterizations of MeV ion treated CaF<sub>2</sub> thin films. **2023**, 33, 033110 ○
- 67 External Beam IBA Measurements for Cultural Heritage. **2023**, 13, 3366 ○
- 66 The contribution of inner electron excitation to the electronic stopping power of palladium for protons. **2023**, 25, 9043-9050 ○

- 65 Structural mechanisms of enhanced mechanical properties in amorphous/nanocrystalline ZrCu alloys under irradiation. **2023**, 58, 5061-5071 ○
- 64 Hyperdoped Si nanocrystals embedded in silica for infrared plasmonics. ○
- 63 Neutron-induced damage simulations using MCNP6 and SRIM codes: Beyond neutron transmutation doping of silicon. **2023**, 187, 109795 ○
- 62 Radiation Response of Large-Area 4H-SiC Schottky Barrier Diodes. **2023**, 16, 2202 ○
- 61 Optimization for Ion Detection and Recognition From Laser-Generated Plasma Using SiC Detectors Connected in Time-of-Flight Acquisition. **2023**, 51, 747-753 ○
- 60 Cross sections of the Rb83(p,n)Sr84 and . **2023**, 107, ○
- 59 The deposition of Ir/YSZ double-layer thin films on silicon by PLD and magnetron sputtering: Growth kinetics and the effects of oxygen. **2023**, 47, 106357 ○
- 58 Bombardment of CO Ice by Cosmic Rays. I. Experimental Insights into the Microphysics of Molecule Destruction and Sputtering. **2023**, 944, 181 ○
- 57 Effects of Proton Irradiation on Optocouplers with Bipolar and MOSFET Technologies, a Comparison of In-Situ and Ex-Situ Results. **2023**, 661-670 ○
- 56 Elastic Modulus of a Carbonized Layer on Polyurethane Treated by Ion-Plasma. **2023**, 15, 1442 ○
- 55 Atomic Delocalization in Solar Flare Heavy-Ion Tracks and Its Impact on the Plastic Deformation of CE-5 Lunar Soil. ○
- 54 Controlled Surface Modification to Revive Shallow NV Centers. **2023**, 23, 2563-2569 ○
- 53 Micromechanical properties of spherical and faceted He bubble loaded copper. **2023**, 61, 102007 ○
- 52 Structure Evolution of Nanocrystalline/Amorphous TiAl Biphase Films during Helium Ion Implantation. **2023**, 13, 632 ○
- 51 Energetic laser-driven proton beams from near-critical-density double-layer targets under moderate relativistic intensities. **2023**, 30, 033107 ○
- 50 Calorimetric low temperature detectors for heavy ion physics and their application in nuclear and atomic physics. **2023**, 104031 ○
- 49 Velocity distributions of particles sputtered from supported two-dimensional MoS2 during highly charged ion irradiation. **2023**, 107, ○
- 48 Dynamic reactions of defects in ion-implanted 4H-SiC upon high temperature annealing. **2023**, 56, 235102 ○

- 47 New experimental study of the  $3\text{He}(\text{H})7\text{Be}$  reaction around the  $E_{\text{cm}} = 3$  MeV resonance. **2023**, 279, 11007 ○
- 46 Directing Exfoliation, Slipping, and Corrugation in WS<sub>2</sub> through Bubbling with 15 keV He<sup>2+</sup> Ion Irradiation. ○
- 45 Novel flexible and conformable composite neutron scintillator based on fully enriched lithium tetraborate. **2023**, 13, ○
- 44 Shell effect driven fission modes in fragment mass and total kinetic energy distribution of Hg\*192. **2023**, 107, ○
- 43 <sup>225</sup>Ac-Labeled Somatostatin Analogs in the Management of Neuroendocrine Tumors: From Radiochemistry to Clinic. **2023**, 15, 1051 ○
- 42 The CMAM facility for proton-therapy pre-clinical studies: biomaterial irradiation experiments. **2023**, 18, C03025 ○
- 41 Segmented silicon-based solid-state detector with thin dead layer for superheavy element research. **2023**, 62, 046001 ○
- 40 Defect engineering of silicon with ion pulses from laser acceleration. **2023**, 4, ○
- 39 Determination of  $^{170,172}\text{Yb}(\text{H})^{173,175}\text{Hf}$  reaction cross sections in a stacked-target. **2023**, 107, ○
- 38 CoAl<sub>2</sub>O<sub>4</sub>; Spinel Growth on SiO<sub>2</sub>; Substrates via Annealing of Magnetron Sputtered Thin Films. 943, 145-150 ○
- 37 Dynamic range and dose linearity of the radiophotoluminescence intensity in lithium fluoride crystals irradiated with 2.3 and 26 MeV protons. **2023**, 259, 119833 ○
- 36 New constraints on sodium production in globular clusters from the  $\text{Na}^{23}(\text{He}^3, \text{d})\text{Mg}$ . **2023**, 107, ○
- 35 Unfolding reaction mechanisms in C<sup>12</sup> fusion with Zr below 7 MeV/nucleon. **2023**, 107, ○
- 34 Cross-section measurement of the  $\text{Kr}^{82}(\text{p}, \text{n})\text{Rb}^{83}$  reaction in inverse kinematics. **2023**, 107, ○
- 33 ZnS-Based Neutron and Alpha Radiation Detectors. **2023**, 75-108 ○
- 32 Negative muons for the characterization of thin layers in Cultural Heritage artefacts. **2023**, 2462, 012003 ○
- 31 Evolution and characteristics of defect clusters in H<sub>2</sub><sup>+</sup> irradiated Al-based Gd<sub>2</sub>O<sub>3</sub> composites used as spent fuel shielding materials. **2023**, 34, 101295 ○
- 30 Near-surface dynamics of the ionic liquid EMIM-Ac above and below the glass transition. **2023**, 2462, 012051 ○

- 29 Search for a space charge layer in thin film battery materials with low-energy muons. **2023**, 2462, 012046 ○
- 28  $^8\text{Li}$  NMR studies of Epitaxial Thin Films of the 3D topological Dirac semimetal  $\text{Sr}_3\text{SnO}$ . **2023**, 2462, 012057 ○
- 27  $^8\text{Li}$  Spin Relaxation as a Probe of the Modification of Molecular Dynamics by Inelastic Deformation of Glassy Polystyrene. **2023**, 2462, 012053 ○
- 26 Dynamic evolution of polyhedral bubbles in  $\text{Fe}_9\text{Cr}_{1.5}\text{W}_0.4\text{Si}$  F/M steel under 30keV  $\text{H}_2^+$  &  $\text{He}^+$  synergetic irradiation. **2023**, 580, 154425 ○
- 25 Simulation of ion optics in a gas-filled solenoid GASSOL. **2023**, 1052, 168263 ○
- 24 Investigation of the effect of cement type on nuclear shield performance of heavy concrete. **2023**, 209, 110954 ○
- 23 Post-Bragg Peak keV-Secondary Electron Radiolysis Revealed by Track-Ends Imaging of High-Energy Protons.. ○
- 22 An experimental study of proton implantation in olivine. **2023**, 50, ○
- 21 MARGE is a new Modular Robotic Gas-jet target system for chemistry studies with homologues of superheavy elements. **2023**, 1052, 168280 ○
- 20 Europium diffusion in ammonothermal gallium nitride. **2023**, 625, 157188 ○
- 19 Cluster formation by the precise joining of iron oxide nanoparticles on low energy nitrogen ion irradiation. 1-14 ○
- 18 Plasma-stimulated great reduction of diffusion activation energies for B, Al, and Ag in Si. **2023**, 98, 055929 ○
- 17 Effects of Ion Irradiation on Modifying Surface Characteristics and Dielectric Properties of PVA Polymeric Materials. **2023**, 12, 043007 ○
- 16 Tailoring the Angular Mismatch in  $\text{MoS}_2$  Homobilayers through Deformation Fields. ○
- 15 Subsurface Characteristics of Metal-Halide Perovskites Polished by an Argon Ion Beam. **2023**, 127, 7461-7470 ○
- 14 Non-destructive measurement of the beryllium thickness of the iBNCT neutron-generation target using negative muons. **2023**, 168291 ○
- 13 Near infrared photoluminescence of  $\text{Si}_{1-x}\text{Ge}_x$  quantum dots fabricated by double hot  $\text{Ge}^+/\text{Si}^+$  implantation into  $\text{SiO}_2$  layer. **2023**, 133, 145703 ○
- 12 Defect annealing in heavy-ion irradiated tungsten: Long-time thermal evolution of saturated displacement damage at different temperatures. **2023**, 581, 154454 ○

- 11 Relative In-flight Response of IBEX-Lo to Interstellar Neutral Helium Atoms. **2023**, 266, 2 ○
- 10 Recoil Proton Telescopes and Parallel Plate Avalanche Counters for the  $^{235}\text{U}(n,f)$  cross section measurement relative to  $\text{H}(n,n)\text{H}$  between 10 and 450 MeV neutron energy. **2023**, 18, P04024 ○
- 9 Insights into nanoparticle shape transformation by energetic ions. **2023**, 13, ○
- 8 Isotopically Enriched Layers for Quantum Computers Formed by  $^{28}\text{Si}$  Implantation and Layer Exchange. ○
- 7 Low-energy protons shallow spread-out Bragg peak imaging with a lithium fluoride crystal. **2023**, 540, 74-79 ○
- 6 Ion irradiation induced direction of collapsed hard-magnetization axis in thin Co films. **2023**, 107, ○
- 5  $^{10}\text{Be}$  at iThemba LABS using a silicon nitride membrane stack as absorber for isobar suppression. **2023**, 540, 102-109 ○
- 4 Cyclotron production of  $^{43}\text{Sc}$  and  $^{44g}\text{Sc}$  from enriched  $^{42}\text{CaO}$ ,  $^{43}\text{CaO}$ , and  $^{44}\text{CaO}$  targets. 11, ○
- 3 Transport and trap states in proton irradiated ultra-thick  $\text{Ga}_2\text{O}_3$ . **2023**, 41, ○
- 2 Ion beam engineering of implanted ZnO thin films for solar cell and lighting applications. **2023**, 15, 100501 ○
- 1 Investigation of  $^{22}\text{Mg}$  levels via resonant scattering of  $^{18}\text{Ne} + \text{H}^1$ , ○