

# Christina Trautmann

## List of Publications by Year in descending order

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427  
papers

14,485  
citations

22153

59  
h-index

36028

97  
g-index

442  
all docs

442  
docs citations

442  
times ranked

9411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biopolymer-Templated Deposition of Ordered and Polymorph Titanium Dioxide Thin Films for Improved Surface-Enhanced Raman Scattering Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, 2108556.	14.9	12
2	Energy Deposition by Ultrahigh Energy Ions in Large and Small Sensitive Volumes. <i>IEEE Transactions on Nuclear Science</i> , 2022, 69, 241-247.	2.0	1
3	Chemical conversions in lead thin films induced by heavy-ion beams at Coulomb barrier energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1028, 166365.	1.6	5
4	Desorption of polycyclic aromatic hydrocarbons by cosmic rays. <i>Astronomy and Astrophysics</i> , 2022, 663, A25.	5.1	4
5	Elucidating the roles of diffusion and osmotic flow in controlling the geometry of nanochannels in asymmetric track-etched membranes. <i>Journal of Membrane Science</i> , 2021, 618, 118657.	8.2	9
6	Nanoparticle emission by electronic sputtering of CaF <sub>2</sub> single crystals. <i>Applied Surface Science</i> , 2021, 537, 147821.	6.1	5
7	TEM analysis of radiation effects in ODS steels induced by swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2021, 486, 1-10.	1.4	10
8	Selective transmembrane transport of A <sup>12</sup> protein regulated by tryptophan enantiomers. <i>Chemical Communications</i> , 2021, 57, 215-218.	4.1	4
9	Multi-scale investigation of heterogeneous swift heavy ion tracks in stannate pyrochlore. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16982-16997.	10.3	8
10	Borate-driven ionic rectifiers based on sugar-bearing single nanochannels. <i>Nanoscale</i> , 2021, 13, 11232-11241.	5.6	11
11	Nanofluidic osmotic power generators – advanced nanoporous membranes and nanochannels for blue energy harvesting. <i>Chemical Science</i> , 2021, 12, 12874-12910.	7.4	60
12	Effects of Size Reduction on the Electrical Transport Properties of 3D Bi Nanowire Networks. <i>Advanced Electronic Materials</i> , 2021, 7, 2001069.	5.1	12
13	Direct formation of nitrogen-vacancy centers in nitrogen doped diamond along the trajectories of swift heavy ions. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	7
14	Ion irradiation induced strain and structural changes in LiTaO <sub>3</sub> perovskite*. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 185402.	1.8	5
15	Efficient Chiral Nanosensor Based on Tip-Modified Nanochannels. <i>Analytical Chemistry</i> , 2021, 93, 6145-6150.	6.5	14
16	Etched ion-track membranes as tailored separators in Li-S batteries. <i>Nanotechnology</i> , 2021, 32, 365401.	2.6	8
17	Conical Nanotubes Synthesized by Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , and SiO <sub>2</sub> in Etched Ion-Track Nanochannels. <i>Nanomaterials</i> , 2021, 11, 1874.	4.1	9
18	Defect-Induced Phase Transition in Hafnium Oxide Thin Films: Comparing Heavy Ion Irradiation and Oxygen-Engineering Effects. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 1542-1547.	2.0	12

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19	Single-ion induced surface modifications on hydrogen-covered Si(001) surfaces—significant difference between slow highly charged and swift heavy ions. <i>New Journal of Physics</i> , 2021, 23, 093037.	2.9	6
20	Surface and subsurface damage in 14 <sup>MeV</sup> Au ion-irradiated diamond. <i>Journal of Applied Physics</i> , 2021, 130, 105303.	2.5	0
21	Direct detection of human adenovirus or SARS-CoV-2 with ability to inform infectivity using DNA aptamer-nanopore sensors. <i>Science Advances</i> , 2021, 7, eabh2848.	10.3	87
22	Dynamic Radiation Effects Induced by Short-Pulsed GeV U-Ion Beams in Graphite and h-BN Targets. <i>Shock and Vibration</i> , 2021, 2021, 1-11.	0.6	0
23	Dynamic Response of Graphitic Targets with Tantalum Cores Impacted by Pulsed 440-GeV Proton Beams. <i>Shock and Vibration</i> , 2021, 2021, 1-19.	0.6	1
24	Shape of nanopores in track-etched polycarbonate membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119681.	8.2	34
25	Biomimetic solid-state nanochannels for chemical and biological sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116425.	11.4	47
26	Desorption measurements of accelerator-related materials exposed to different stimuli. <i>Vacuum</i> , 2021, 194, 110608.	3.5	2
27	Ion track etching of polycarbonate membranes monitored by <i>in situ</i> small angle X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14231-14241.	2.8	5
28	Ion tracks in ultrathin polymer films: The role of the substrate. <i>Current Applied Physics</i> , 2021, 32, 91-97.	2.4	3
29	Ionoacoustic detection of swift heavy ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 950, 162935.	1.6	15
30	Degradation of thermal transport properties in fine-grained isotropic graphite exposed to swift heavy ion beams. <i>Acta Materialia</i> , 2020, 184, 187-198.	7.9	14
31	Sputtering of LiF and other halide crystals in the electronic energy loss regime. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	5
32	High-sensitivity detection of dopamine by biomimetic nanofluidic diodes derivatized with poly(3-aminobenzylamine). <i>Nanoscale</i> , 2020, 12, 18390-18399.	5.6	20
33	Zinc ion driven ionic conduction through single asymmetric nanochannels functionalized with nanocomposites. <i>Electrochimica Acta</i> , 2020, 337, 135810.	5.2	22
34	Cu <sub>2</sub> O/TiO <sub>2</sub> Nanowire Assemblies as Photocathodes for Solar Hydrogen Evolution: Influence of Diameter, Length and Number Density of Wires. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 1205-1221.	2.8	7
35	Shape matters: Enhanced osmotic energy harvesting in bullet-shaped nanochannels. <i>Nano Energy</i> , 2020, 71, 104612.	16.0	80
36	Annealing of ion tracks in apatite under pressure characterized in situ by small angle x-ray scattering. <i>Scientific Reports</i> , 2020, 10, 1367.	3.3	2

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37	Electrochemically addressable nanofluidic devices based on PET nanochannels modified with electropolymerized poly- <i>o</i> -aminophenol films. <i>Nanoscale</i> , 2020, 12, 6002-6011.	5.6	22
38	TEM analysis of ion tracks and hillocks produced by swift heavy ions of different velocities in Y3Fe5O12. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	8
39	Characterization of Radiation Effects and Ion Tracks with Spallation Neutron Probes. <i>Nuclear Physics News</i> , 2020, 30, 16-19.	0.4	1
40	Fundamental Phenomena and Applications of Swift Heavy Ion Irradiations. , 2020, , 485-516.		23
41	Polyaniline for Improved Blue Energy Harvesting: Highly Rectifying Nanofluidic Diodes Operating in Hypersaline Conditions via One-Step Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28148-28157.	8.0	39
42	Analysis of nanometer-sized aligned conical pores using small-angle x-ray scattering. <i>Physical Review Materials</i> , 2020, 4, .	2.4	6
43	Heavy Ion Irradiation Effects on Structural and Ferroelectric Properties of HfO <sub>2</sub> Films. , 2020, , .		3
44	Magnetotransport measurements on Bi2Te3 nanowires electrodeposited in etched ion-track membranes. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 128, 360-366.	4.0	7
45	Heavy Ion Radiation Effects on Hafnium Oxide-Based Resistive Random Access Memory. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 1715-1718.	2.0	34
46	Redox-Driven Reversible Gating of Solid-State Nanochannels. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30001-30009.	8.0	49
47	Molecular Design of Solid-State Nanopores: Fundamental Concepts and Applications. <i>Advanced Materials</i> , 2019, 31, e1901483.	21.0	130
48	Amine-Phosphate Specific Interactions within Nanochannels: Binding Behavior and Nanoconfinement Effects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28997-29007.	3.1	39
49	The Effect of Heavy Ion Irradiation on the Forward Dissolution Rate of Borosilicate Glasses Studied In Situ and Real Time by Fluid-Cell Raman Spectroscopy. <i>Materials</i> , 2019, 12, 1480.	2.9	18
50	Etched ion tracks in amorphous SiO <sub>2</sub> characterized by small angle x-ray scattering: influence of ion energy and etching conditions. <i>Nanotechnology</i> , 2019, 30, 274001.	2.6	13
51	Applied nuclear physics at the new high-energy particle accelerator facilities. <i>Physics Reports</i> , 2019, 800, 1-37.	25.6	46
52	Release of large polycyclic aromatic hydrocarbons and fullerenes by cosmic rays from interstellar dust. <i>Astronomy and Astrophysics</i> , 2019, 623, A134.	5.1	16
53	Spatially resolved magnetic resonance studies of swift heavy ion induced defects and radiolysis products in LiF crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 441, 70-78.	1.4	8
54	Local structure and defects in ion irradiated KTaO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2018, 30, 145401.	1.8	4

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55	Fluoropolymer-based nanostructured membranes created by swift-heavy-ion irradiation and their energy and environmental applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2018, 435, 162-168.	1.4	9
56	Osmotic Effects in Track-Étched Nanopores. <i>Small</i> , 2018, 14, e1703327.	10.0	19
57	Graphitization of amorphous carbon by swift heavy ion impacts: Molecular dynamics simulation. <i>Diamond and Related Materials</i> , 2018, 83, 134-140.	3.9	11
58	Nanoscale density variations induced by high energy heavy ions in amorphous silicon nitride and silicon dioxide. <i>Nanotechnology</i> , 2018, 29, 144004.	2.6	26
59	Proton-Égated Rectification Regimes in Nanofluidic Diodes Switched by Chemical Effectors. <i>Small</i> , 2018, 14, e1703144.	10.0	34
60	Radiation-induced disorder in compressed lanthanide zirconates. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6187-6197.	2.8	10
61	Ultrafast ion sieving using nanoporous polymeric membranes. <i>Nature Communications</i> , 2018, 9, 569.	12.8	197
62	Conical etched ion tracks in SiO <sub>2</sub> characterised by small angle X-ray scattering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2018, 435, 133-136.	1.4	3
63	Shrinking of Rapidly Evaporating Water Microdroplets Reveals their Extreme Supercooling. <i>Physical Review Letters</i> , 2018, 120, 015501.	7.8	49
64	Highly Sensitive Biosensing with Solid-State Nanopores Displaying Enzymatically Reconfigurable Rectification Properties. <i>Nano Letters</i> , 2018, 18, 3303-3310.	9.1	91
65	Sculpting Nanoscale Functional Channels in Complex Oxides Using Energetic Ions and Electrons. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16731-16738.	8.0	7
66	Synergistically-enhanced ion track formation in pre-damaged strontium titanate by energetic heavy ions. <i>Acta Materialia</i> , 2018, 150, 351-359.	7.9	20
67	Similar local order in disordered fluorite and aperiodic pyrochlore structures. <i>Acta Materialia</i> , 2018, 144, 60-67.	7.9	60
68	Swift-heavy ion irradiation response and annealing behavior of A <sub>2</sub> TiO <sub>5</sub> (A = Nd, Gd, and Yb). <i>Journal of Solid State Chemistry</i> , 2018, 258, 108-116.	2.9	10
69	Phosphate-Égresponsive Biomimetic Nanofluidic Diodes Regulated by Polyamine-ÉgPhosphate Interactions: Insights into Their Functional Behavior from Theory and Experiment. <i>Small</i> , 2018, 14, e1702131.	10.0	57
70	ZnO Nanowire Networks as Photoanode Model Systems for Photoelectrochemical Applications. <i>Nanomaterials</i> , 2018, 8, 693.	4.1	22
71	Structure, morphology and annealing behavior of ion tracks in polycarbonate. <i>European Polymer Journal</i> , 2018, 108, 406-411.	5.4	13
72	Grain size effects on irradiated CeO <sub>2</sub> , ThO <sub>2</sub> , and UO <sub>2</sub> . <i>Acta Materialia</i> , 2018, 160, 47-56.	7.9	45

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73	Nanoscale Structuring in Confined Geometries using Atomic Layer Deposition: Conformal Coating and Nanocavity Formation. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1147-1171.	2.8	9
74	Bond-Breaking Efficiency of High-Energy Ions in Ultrathin Polymer Films. <i>Physical Review Letters</i> , 2018, 121, 066101.	7.8	6
75	Surface Enhanced DNP Assisted Solid-State NMR of Functionalized SiO <sub>2</sub> Coated Polycarbonate Membranes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1173-1186.	2.8	8
76	Phase field modelling of dynamic thermal fracture in the context of irradiation damage. <i>Continuum Mechanics and Thermodynamics</i> , 2017, 29, 977-988.	2.2	19
77	Charge-state related effects in sputtering of LiF by swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 392, 94-101.	1.4	19
78	Influence of surface states and size effects on the Seebeck coefficient and electrical resistance of Bi <sub>1-x</sub> Sb <sub>x</sub> nanowire arrays. <i>Nanoscale</i> , 2017, 9, 3169-3179.	5.6	17
79	Transmission profiles of ions through nano-capillaries of rectangular cross-section in mica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 421-424.	1.4	4
80	Noncovalent Approach toward the Construction of Nanofluidic Diodes with pH-Reversible Rectifying Properties: Insights from Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9070-9076.	3.1	37
81	SAXS investigation of un-etched and etched ion tracks in polycarbonate. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 409, 293-297.	1.4	15
82	An All-Plastic Field-Effect Nanofluidic Diode Gated by a Conducting Polymer Layer. <i>Advanced Materials</i> , 2017, 29, 1700972.	21.0	68
83	Amorphization of Ta <sub>2</sub> O <sub>5</sub> under swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 407, 25-33.	1.4	22
84	Thermal defect annealing of swift heavy ion irradiated ThO <sub>2</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 405, 15-21.	1.4	6
85	Defect accumulation in swift heavy ion-irradiated CeO <sub>2</sub> and ThO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2017, 5, 12193-12201.	10.3	36
86	Polymeric lithography editor: Editing lithographic errors with nanoporous polymeric probes. <i>Science Advances</i> , 2017, 3, e1602071.	10.3	7
87	Effect of ion velocity on creation of point defects halos of latent tracks in LiF. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 407, 80-85.	1.4	2
88	Swift heavy ion irradiation of interstellar dust analogues. <i>Astronomy and Astrophysics</i> , 2017, 599, A130.	5.1	17
89	New insights on ion track morphology in pyrochlores by aberration corrected scanning transmission electron microscopy. <i>Journal of Materials Research</i> , 2017, 32, 928-935.	2.6	13
90	Forging Fast Ion Conducting Nanochannels with Swift Heavy Ions: The Correlated Role of Local Electronic and Atomic Structure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 975-981.	3.1	44

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91	Composition and orientation dependent annealing of ion tracks in apatite - Implications for fission track thermochronology. <i>Chemical Geology</i> , 2017, 451, 9-16.	3.3	10
92	Electronic sputtering of LiF, CaF <sub>2</sub> , LaF <sub>3</sub> and UF <sub>4</sub> with 197 MeV Au ions. Is the stoichiometry of atom emission preserved?. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 501-506.	1.4	10
93	Phase transformation and chemical decomposition of nanocrystalline SnO <sub>2</sub> under heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 407, 10-19.	1.4	0
94	Fabrication of nanoporous graphene/polymer composite membranes. <i>Nanoscale</i> , 2017, 9, 10487-10493.	5.6	55
95	Bioinspired integrated nanosystems based on solid-state nanopores: "electronic" transduction of biological, chemical and physical stimuli. <i>Chemical Science</i> , 2017, 8, 890-913.	7.4	136
96	Single Ion Track-Etched Nanochannels for Analytical Applications. , 2017, , 61-83.		4
97	Nanometer collimation enhancement of ion beams using channeling effects in track-etched mica capillaries. <i>Scientific Reports</i> , 2017, 7, 17081.	3.3	5
98	The Influence of Divalent Anions on the Rectification Properties of Nanofluidic Diodes: Insights from Experiments and Theoretical Simulations. <i>ChemPhysChem</i> , 2016, 17, 2718-2725.	2.1	37
99	Irradiation effects in CaF <sub>2</sub> probed by Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 978-983.	2.5	15
100	Composition dependent thermal annealing behaviour of ion tracks in apatite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 379, 211-214.	1.4	3
101	Electrodeposition and electroless plating of hierarchical metal superstructures composed of 1D nano- and microscale building blocks. <i>Electrochimica Acta</i> , 2016, 202, 47-54.	5.2	30
102	Conducting ion tracks generated by charge-selected swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 381, 76-83.	1.4	8
103	CHARGE SPECTRUM OF HEAVY AND SUPERHEAVY COMPONENTS OF GALACTIC COSMIC RAYS: RESULTS OF THE OLIMPIYA EXPERIMENT. <i>Astrophysical Journal</i> , 2016, 829, 120.	4.5	28
104	Structural response of titanate pyrochlores to swift heavy ion irradiation. <i>Acta Materialia</i> , 2016, 117, 207-215.	7.9	64
105	Porous Gold Nanowires: Plasmonic Response and Surface-Enhanced Infrared Absorption. <i>Advanced Optical Materials</i> , 2016, 4, 1838-1845.	7.3	22
106	Low temperature annealing effects on the stability of Bi nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 603-609.	1.8	5
107	Fabrication and thermoelectrical characterization of three-dimensional nanowire networks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 610-619.	1.8	15
108	Role of composition, bond covalency, and short-range order in the disordering of stannate pyrochlores by swift heavy ion irradiation. <i>Physical Review B</i> , 2016, 94, .	3.2	53

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109	Electronic sputtering of vitreous SiO <sub>2</sub> : Experimental and modeling results. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 2-8.	1.4	20
110	Selective Ionic Transport: Highly Selective Ionic Transport through Subnanometer Pores in Polymer Films (Adv. Funct. Mater. 32/2016). Advanced Functional Materials, 2016, 26, 5947-5947.	14.9	3
111	Shedding light on the mechanism of asymmetric track etching: an interplay between latent track structure, etchant diffusion and osmotic flow. Physical Chemistry Chemical Physics, 2016, 18, 25421-25433.	2.8	29
112	Highly Selective Ionic Transport through Subnanometer Pores in Polymer Films. Advanced Functional Materials, 2016, 26, 5796-5803.	14.9	182
113	Insights on dramatic radial fluctuations in track formation by energetic ions. Scientific Reports, 2016, 6, 27196.	3.3	14
114	Exploring the Electronic Structure and Chemical Homogeneity of Individual Bi <sub>2</sub> Te <sub>3</sub> Nanowires by Nano-Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2016, 16, 4001-4007.	9.1	13
115	Modifications of gallium phosphide single crystals using slow highly charged ions and swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2016, 382, 86-90.	1.4	3
116	Noncovalent functionalization of solid-state nanopores via self-assembly of amphipols. Nanoscale, 2016, 8, 1470-1478.	5.6	47
117	Vertically-Aligned Single-Crystal Nanocone Arrays: Controlled Fabrication and Enhanced Field Emission. ACS Applied Materials & Interfaces, 2016, 8, 472-479.	8.0	37
118	Data consistencies of swift heavy ion induced damage creation in yttrium iron garnet analyzed by different techniques. Nuclear Instruments & Methods in Physics Research B, 2016, 366, 155-160.	1.4	15
119	Surface plasmonic spectroscopy revealing the oxidation dynamics of copper nanowires embedded in polycarbonate ion-track templates. Journal of Materials Chemistry C, 2016, 4, 3956-3962.	5.5	12
120	Influence of electrodeposition parameters on the structure and morphology of ZnO nanowire arrays and networks synthesized in etched ion-track membranes. Semiconductor Science and Technology, 2016, 31, 014006.	2.0	17
121	Anisotropic expansion and amorphization of Ga <sub>2</sub> O <sub>3</sub> irradiated with 946 MeV Au ions. Nuclear Instruments & Methods in Physics Research B, 2016, 374, 40-44.	1.4	15
122	Characterization of ion-induced radiation effects in nuclear materials using synchrotron x-ray techniques. Journal of Materials Research, 2015, 30, 1366-1379.	2.6	36
123	APPA at FAIR: From fundamental to applied research. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 680-685.	1.4	41
124	Electrical conduction of ion tracks in tetrahedral amorphous carbon: temperature, field and doping dependence and comparison with matrix data. New Journal of Physics, 2015, 17, 123009.	2.9	1
125	Phase transformations in $\text{LnO}_3$ materials irradiated with swift heavy ions. Physical Review B, 2015, 92, .	3.2	41
126	Orientation dependent annealing kinetics of ion tracks in c-SiO <sub>2</sub> . Journal of Applied Physics, 2015, 118, 224305.	2.5	5



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127	Self-Supporting Metal Nanotube Networks Obtained by Highly Conformal Electroless Plating. <i>ChemPlusChem</i> , 2015, 80, 1448-1456.	2.8	18
128	Growth and morphological analysis of segmented AuAg alloy nanowires created by pulsed electrodeposition in ion-track etched membranes. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1272-1280.	2.8	5
129	Conformal SiO <sub>2</sub> coating of sub-100 nm diameter channels of polycarbonate etched ion-track channels by atomic layer deposition. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 472-479.	2.8	32
130	Characterization of swift heavy ion irradiation damage in ceria. <i>Journal of Materials Research</i> , 2015, 30, 1473-1484.	2.6	29
131	Synchrotron x-ray diffraction analysis of gadolinium and lanthanum titanate oxides irradiated by xenon and tantalum swift heavy ions. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1743, 26.	0.1	2
132	Oxygen loss induced by swift heavy ions of low and high dE/dx in PMMA thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 365, 578-582.	1.4	5
133	In situ Resonant Ultrasound Spectroscopy during irradiation of solids with relativistic heavy ions. <i>Acta Materialia</i> , 2015, 89, 60-72.	7.9	1
134	STEM-EELS analysis of multipole surface plasmon modes in symmetry-broken AuAg nanowire dimers. <i>Nanoscale</i> , 2015, 7, 4935-4941.	5.6	13
135	Redox response of actinide materials to highly ionizing radiation. <i>Nature Communications</i> , 2015, 6, 6133.	12.8	72
136	<i>In situ</i> 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. <i>Journal of Applied Crystallography</i> , 2015, 48, 711-717.	4.5	25
137	Material-related issues at high-power and high-energy ion beam facilities. <i>Journal of Physics: Conference Series</i> , 2015, 599, 012039.	0.4	0
138	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. <i>Acta Materialia</i> , 2015, 93, 1-11.	7.9	62
139	Intense heavy ion beam-induced temperature effects in carbon-based stripper foils. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 875-882.	1.5	2
140	Confinement Effects of Ion Tracks in Ultrathin Polymer Films. <i>Physical Review Letters</i> , 2015, 114, 118302.	7.8	30
141	Polydopamine Meets Solid-State Nanopores: A Bioinspired Integrative Surface Chemistry Approach To Tailor the Functional Properties of Nanofluidic Diodes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6011-6017.	13.7	131
142	Radiolysis and sputtering of carbon dioxide ice induced by swift Ti, Ni, and Xe ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 365, 477-481.	1.4	27
143	On-line Raman spectroscopy of calcite and malachite during irradiation with swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 365, 564-568.	1.4	7
144	Ion track annealing in quartz investigated by small angle X-ray scattering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 365, 380-383.	1.4	5

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145	Size characterization of ion tracks in PET and PTFE using SAXS. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 573-577.	1.4	22
146	Study on structural recovery of graphite irradiated with swift heavy ions at high temperature. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 522-524.	1.4	5
147	Host-guest supramolecular chemistry in solid-state nanopores: potassium-driven modulation of ionic transport in nanofluidic diodes. Nanoscale, 2015, 7, 15594-15598.	5.6	82
148	Surface Enrichment in Au-Ag Alloy Nanowires and Investigation of the Dealloying Process. Journal of Physical Chemistry C, 2015, 119, 20949-20956.	3.1	30
149	TiO <sub>2</sub> , SiO <sub>2</sub> , and Al <sub>2</sub> O <sub>3</sub> coated nanopores and nanotubes produced by ALD in etched ion-track membranes for transport measurements. Nanotechnology, 2015, 26, 335301.	2.6	67
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