

Jiri Vacik

List of Publications by Year in descending order

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300
papers

2,939
citations

293460

24
h-index

325983

40
g-index

304
all docs

304
docs citations

304
times ranked

3168
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of medium energy He ⁺ , Ne ⁺ and Ar ⁺ ion irradiation on the Hf-In-C thin film composites. Thin Solid Films, 2022, 743, 139052.	0.8	3
2	The Key Role of Tin (Sn) in Microstructure and Mechanical Properties of Ti ₂ SnC (M2AX) Thin Nanocrystalline Films and Powdered Polycrystalline Samples. Nanomaterials, 2022, 12, 307.	1.9	3
3	Study of Wettability of Polyethylene Membranes for Food Packaging. Sustainability, 2022, 14, 5863.	1.6	6
4	Relevance of Rabi splitting effect for tunable enhancement of Raman scattering in self-assembled silver @ Fullerene nanocomposite films. Carbon, 2022, 196, 988-1000.	5.4	1
5	Investigation of lithiation/delithiation processes in ceramic solid electrolyte by means of Neutron Depth Profiling. Journal of Power Sources, 2022, 542, 231719.	4.0	5
6	Ion-beam-induced crystallization of radiation-resistant MAX phase nanostructures. Radiation Effects and Defects in Solids, 2021, 176, 119-137.	0.4	4
7	Ion Track Etching Revisited: IV. Thermal annealing of fresh swift heavy ion-irradiated PET in different environments. Radiation Effects and Defects in Solids, 2021, 176, 17-37.	0.4	0
8	Ion track etching revisited. V. Etching of aged pristine and swift heavy ion-irradiated polyimide foils after treatment in hot ambient. Radiation Effects and Defects in Solids, 2021, 176, 167-187.	0.4	1
9	Ion transmission spectroscopy of pores filled with Au nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2021, 491, 29-33.	0.6	2
10	Chemiresistors Based on Li-Doped Cu@TiO ₂ Films. Chemosensors, 2021, 9, 246.	1.8	3
11	Tunable interplay of plasmonic and molecular excitations in self-assembled silver - fullerene nanocomposites. Carbon, 2021, 184, 34-42.	5.4	4
12	Synthesis of Cu@Ti thin film multilayers on silicon substrates. Bulletin of Materials Science, 2021, 44, 1.	0.8	4
13	Surface morphology and mechanical properties changes induced in Ti ₃ InC ₂ (M3AX ₂) thin nanocrystalline films by irradiation of 100 keV Ne ⁺ ions. Surface and Coatings Technology, 2021, 426, 127775.	2.2	5
14	Effect of 2 MeV W ⁺ ion irradiation on the surface morphology of Sc:In:C and Zr:In:C thin films. Radiation Effects and Defects in Solids, 2021, 176, 1049-1064.	0.4	1
15	Optical and electrical characterization of CuO/ZnO heterojunctions. Thin Solid Films, 2020, 693, 137656.	0.8	24
16	LiNbO ₃ Nanocrystals for Tunable Ion Track Electronics and Gas Sensorics. Sensors and Actuators A: Physical, 2020, 302, 111768.	2.0	2
17	Preparation of heterogenous copper-titanium oxides for chemiresistor applications. Materials Today: Proceedings, 2020, 33, 2512-2516.	0.9	4
18	Diffusion of Lithium in Thin Copper Measured by Neutron Depth Profiling. Journal of Physical Chemistry C, 2020, 124, 25748-25753.	1.5	3

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19	Multilayered Cu-Ti deposition on silicon substrates for chemiresistor applications. Phosphorus, Sulfur and Silicon and the Related Elements, 2020, 195, 932-935.	0.8	3
20	Linearity studies of HD-810 dosimeters by light ion beams. Radiation Effects and Defects in Solids, 2020, 175, 383-393.	0.4	0
21	Structure assembly regularities in vapour-deposited gold-fullerene mixture films. Nanoscale Advances, 2020, 2, 1542-1550.	2.2	3
22	Lithium encapsulation in etched nuclear pores in polyethylene terephthalate. Nuclear Instruments & Methods in Physics Research B, 2020, 469, 19-23.	0.6	4
23	Coupled chemical reactions in dynamic nanometric confinement: IX. Etched tracks with membranes made of calcium carbonate. Radiation Effects and Defects in Solids, 2020, 175, 7-25.	0.4	2
24	Preparation of Ti ₂ C MXene phase by ion beam sputtering and ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2020, 469, 49-51.	0.6	10
25	Biocompatible nanoparticles production by pulsed laser ablation in liquids. Journal of Instrumentation, 2020, 15, C03053-C03053.	0.5	8
26	Ion sputtering for preparation of thin MAX and MXene phases. Radiation Effects and Defects in Solids, 2020, 175, 177-189.	0.4	29
27	Measurement of lithium diffusion coefficient in thin metallic multilayer by neutron depth profiling. Surface and Interface Analysis, 2020, 52, 939-942.	0.8	1
28	Effect of Ar ⁺ irradiation of Ti ₃ InC ₂ at different ion beam fluences. Surface and Coatings Technology, 2020, 394, 125834.	2.2	8
29	A new neutron depth profiling spectrometer at the JCNS for a focused neutron beam. Radiation Effects and Defects in Solids, 2020, 175, 342-355.	0.4	2
30	Study of Li diffusion in thin film of Re annealed at high temperatures. Journal of Instrumentation, 2020, 15, P05010-P05010.	0.5	1
31	Study of water uptake in poly(ether ether ketone) irradiated by MeV O ⁺ and Au ⁺ ions. Radiation Effects and Defects in Solids, 2020, 175, 318-324.	0.4	0
32	Desorption spectrometry II: coupled desorption of Li marker and degradation of polypyrrole. Radiation Effects and Defects in Solids, 2020, 175, 268-278.	0.4	1
33	Distribution of lithium in doped nuclear pores of polyethylene terephthalate by neutron depth profiling. Radiation Effects and Defects in Solids, 2020, 175, 325-331.	0.4	2
34	Analysis of Li distribution in ultrathin all-solid-state Li-ion battery (ASSLiB) by neutron depth profiling (NDP). Radiation Effects and Defects in Solids, 2020, 175, 394-405.	0.4	17
35	Ion Track Etching Revisited: Influence of Aging on Parameters of Irradiated Polymers as Required for Advanced Devices. NATO Science for Peace and Security Series A: Chemistry and Biology, 2020, , 149-170.	0.5	1
36	Ti ₂ SnC and Ti ₂ InC Nanolaminates by Low Energy Ion Facility (LEIF) and Their Resistance Towards Ar ⁺ Ion Bombardment. Microscopy and Microanalysis, 2019, 25, 1630-1631.	0.2	3

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37	Ion Beam Sputtering for Controlled Synthesis of Thin MAX (MXene) Phases. Microscopy and Microanalysis, 2019, 25, 1626-1627.	0.2	6
38	Radiation Stability of Ti ₂ InC (M ₂ AX) Nanolaminates Under He Ions Irradiation – Evaluation Through STEM microscopy. Microscopy and Microanalysis, 2019, 25, 1624-1625.	0.2	2
39	Radiation Resistant Layered Ti ₃ AlC ₂ Ceramics Prepared by LEIF. Microscopy and Microanalysis, 2019, 25, 1632-1633.	0.2	0
40	Study of Li diffusion in thin Li-ion batteries by thermal neutron depth profiling (TNDP). AIP Conference Proceedings, 2019, , .	0.3	2
41	Spectroscopy of backscattered Cu ions detected by CR39 through grayness analysis of ion-etch tracks. Radiation Measurements, 2019, 129, 106204.	0.7	2
42	Ti-based MXenes: Preparation by Ion Beam Sputtering and Microstructural Evolution by Ion Irradiation. Microscopy and Microanalysis, 2019, 25, 1628-1629.	0.2	1
43	Quantum plasmon excitations in gold-fullerene mixture films. Nanotechnology, 2019, 30, 365001.	1.3	3
44	Ion track etching in polyethylene-terephthalate studied by charge particle transmission technique. Radiation Effects and Defects in Solids, 2019, 174, 148-157.	0.4	6
45	Negative differential resistance of aged organometal/Si bilayer structures. Radiation Effects and Defects in Solids, 2019, 174, 92-110.	0.4	1
46	Formation of heavy clusters in ion-irradiated compounds. Vacuum, 2019, 164, 149-152.	1.6	4
47	Synthesis and modification of Ti ₂ SnC nanolaminates with high-fluence 35 keV Ar ⁺ ions. AIP Conference Proceedings, 2019, , .	0.3	2
48	Measurement of the σ_{Be} cross section at thermal energy. Physical Review C, 2019, 99, .	1.1	9
49	Ion track etching revisited: II. Electronic properties of aged tracks in polymers. Radiation Effects and Defects in Solids, 2018, 173, 148-164.	0.4	4
50	Dependence of yield of nuclear track-biosensors on track radius and analyte concentration. Nuclear Instruments & Methods in Physics Research B, 2018, 420, 69-75.	0.6	7
51	Quantum plasmon and Rashba-like spin splitting in self-assembled CoxC ₆₀ composites with enhanced Co content (x > 15). Nanotechnology, 2018, 29, 135701.	1.3	3
52	Ion track etching revisited: I. Correlations between track parameters in aged polymers. Nuclear Instruments & Methods in Physics Research B, 2018, 420, 57-68.	0.6	8
53	TiSn and Ti ₂ SnC Nanolaminates Prepared by Ion Beam Sputtering of Individual Phase Elements: Materials for Future Nuclear Application. Microscopy and Microanalysis, 2018, 24, 1618-1619.	0.2	1
54	Water uptake in polyethylene terephthalate irradiated by medium energy O ⁺ and Au ⁺ ions. Radiation Effects and Defects in Solids, 2018, 173, 829-835.	0.4	2

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55	Characterization of ion tracks in CR39 polymer exposed to $^{241}\text{Am}^{\pm}$ -particles. <i>Radiation Effects and Defects in Solids</i> , 2018, 173, 807-817.	0.4	1
56	Measurement of Li diffusion in porous carbon by neutron depth profiling. <i>Radiation Effects and Defects in Solids</i> , 2018, 173, 836-841.	0.4	4
57	Radiation Resistance of the $\text{U}(\text{Al}, \text{Si})_3$ Alloy: Ion-Induced Disorder. <i>Materials</i> , 2018, 11, 228.	1.3	6
58	Improving the Design of Ion Track-Based Biosensors. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2018, , 185-197.	0.5	1
59	High resolution imaging of 2D distribution of lithium in thin samples measured with multipixel detectors in sandwich geometry. <i>Review of Scientific Instruments</i> , 2017, 88, 023706.	0.6	7
60	Superconducting Ferromagnetic Nanodiamond. <i>ACS Nano</i> , 2017, 11, 5358-5366.	7.3	25
61	Diffusion kinetics of the glucose/glucose oxidase system in swift heavy ion track-based biosensors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 398, 21-26.	0.6	3
62	Nickel oxide films by thermal annealing of ion-beam-sputtered Ni: Structure and electro-optical properties. <i>Thin Solid Films</i> , 2017, 640, 52-59.	0.8	4
63	Coupled chemical reactions in dynamic nanometric confinement: VII. Biosensors based on swift heavy ion tracks with membranes. <i>Radiation Effects and Defects in Solids</i> , 2017, 172, 159-173.	0.4	2
64	Contrasting behavior of covalent and molecular carbon allotropes exposed to extreme ultraviolet and soft x-ray free-electron laser radiation. <i>Physical Review B</i> , 2017, 96, .	1.1	12
65	Optical transitions and electronic interactions in self-assembled cobalt-fullerene mixture films. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 485305.	1.3	5
66	The New Facilities for Neutron Radiography at the LVR-15 Reactor. <i>Journal of Physics: Conference Series</i> , 2016, 746, 012041.	0.3	4
67	Development and characterization of high-resolution neutron pixel detectors based on Timepix read-out chips. <i>Journal of Instrumentation</i> , 2016, 11, C12026-C12026.	0.5	12
68	Phase evolution in mixture of cobalt and fullerene deposited from vapor. <i>Carbon</i> , 2016, 103, 425-435.	5.4	7
69	Nuclear track-based biosensing: an overview. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 173-185.	0.4	9
70	Thin copper oxide films prepared by ion beam sputtering with subsequent thermal oxidation: Application in chemiresistors. <i>Applied Surface Science</i> , 2016, 389, 751-759.	3.1	14
71	Laboratory for Materials Analysis by Nuclear Analytical Methods at Nuclear Physics Institute. <i>Nuclear Physics News</i> , 2016, 26, 21-26.	0.1	5
72	Laser-induced periodic surface structure in nickel-fullerene composites. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 154-160.	0.4	0

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73	On the structure of etched ion tracks in polymers. Radiation Physics and Chemistry, 2016, 121, 106-109.	1.4	9
74	Study of Neutron Induced Reactions on ⁷ Be Using Large Angle Coincidence Spectroscopy. Physics Procedia, 2015, 66, 520-523.	1.2	0
75	Coupled chemical reactions in dynamic nanometric confinement: IV. Ion transmission spectrometric analysis of nanofluidic behavior and membrane formation during track etching in polymers. Radiation Effects and Defects in Solids, 2015, 170, 155-174.	0.4	2
76	Growth and Potential Damage of Human Bone-Derived Cells Cultured on Fresh and Aged C60/Ti Films. PLoS ONE, 2015, 10, e0123680.	1.1	16
77	Production of multi-, oligo- and single-pore membranes using a continuous ion beam. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 641-645.	0.6	3
78	Contrasting magnetism in dilute and supersaturated cobalt- ⁶⁰ fullerene mixture films. Journal Physics D: Applied Physics, 2015, 48, 335002.	1.3	9
79	Coupled chemical reactions in dynamic nanometric confinement: V. The influence of Li ⁺ and F ⁻ ions on etching of nuclear tracks in polymers. Radiation Effects and Defects in Solids, 2014, 169, 396-417.	0.4	6
80	Lithium diffusion in polyether ether ketone and polyimide stimulated by in situ electron irradiation and studied by the neutron depth profiling method. Radiation Effects and Defects in Solids, 2014, 169, 885-891.	0.4	1
81	Bone cells in cultures on nanocarbon-based materials for potential bone tissue engineering: A review (Phys. Status Solidi A 12 ^â •2014). Physica Status Solidi (A) Applications and Materials Science, 2014, 211, n/a-n/a.	0.8	0
82	Modular pixelated detector system with the spectroscopic capability and fast parallel read-out. Journal of Instrumentation, 2014, 9, C06006-C06006.	0.5	6
83	Position sensitive detection of neutrons in high radiation background field. Review of Scientific Instruments, 2014, 85, 013304.	0.6	13
84	Bone cells in cultures on nanocarbon-based materials for potential bone tissue engineering: A review. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2688-2702.	0.8	36
85	Study of ion tracks by micro-probe ion energy loss spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2014, 332, 308-311.	0.6	3
86	Diffusion of silver and iodine into polymers assisted by in situ electron irradiation. Radiation Physics and Chemistry, 2014, 98, 92-97.	1.4	7
87	Nuclear track-based biosensors with the enzyme laccase. Applied Surface Science, 2014, 310, 66-76.	3.1	14
88	Change of diamond film structure and morphology with N ₂ addition in MW PECVD apparatus with linear antenna delivery system. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2296-2301.	0.8	7
89	Neutron and high-contrast X-ray micro-radiography as complementary tools for monitoring organosilicon consolidants in natural building stones. Nuclear Instruments & Methods in Physics Research B, 2014, 338, 42-47.	0.6	7
90	Large area deposition of boron doped nano-crystalline diamond films at low temperatures using microwave plasma enhanced chemical vapour deposition with linear antenna delivery. Diamond and Related Materials, 2014, 47, 27-34.	1.8	38

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91	Ion channeling study of lattice distortions in chromium-doped SrTiO ₃ crystals. Physics of the Solid State, 2013, 55, 1431-1437.	0.2	0
92	Conductivity of boron-doped polycrystalline diamond films: influence of specific boron defects. European Physical Journal B, 2013, 86, 1.	0.6	55
93	Study of structural and electrical properties of thin NiOx films prepared by ion beam sputtering of Ni and subsequent thermo-oxidation. European Physical Journal B, 2013, 86, 1.	0.6	5
94	Electrochemistry and in situ Raman spectroelectrochemistry of low and high quality boron doped diamond layers in aqueous electrolyte solution. Electrochimica Acta, 2013, 87, 518-525.	2.6	65
95	Electric field-assisted erbium doping of LiNbO ₃ from melt. Scripta Materialia, 2013, 68, 739-742.	2.6	2
96	Erbium diffusion from erbium metal or erbium oxide layers deposited on the surface of various LiNbO ₃ cuts. Optical Materials, 2013, 36, 402-407.	1.7	2
97	Controllable fabrication of amorphous Si layer by energetic cluster ion bombardment. Vacuum, 2013, 98, 49-55.	1.6	2
98	Tomographic study of ion tracks by ion energy loss spectroscopy. , 2013, , .		1
99	Growth and Potential Damage of Human Bone-Derived Cells on Fresh and Aged Fullerene C ₆₀ Films. International Journal of Molecular Sciences, 2013, 14, 9182-9204.	1.8	24
100	Hybrid detectors of neutrons based on 3D silicon sensors with PolySiloxane converter. , 2013, , .		3
101	Coupled chemical reactions in dynamic nanometric confinement: Ag ₂ O membrane formation during ion track etching. Radiation Effects and Defects in Solids, 2013, 168, 675-695.	0.4	4
102	Photoluminescence Studies of Li-Doped Si Nanocrystals. Nanomaterials and Nanotechnology, 2013, 3, 14.	1.2	0
103	Structural Consequences of Duplicitous Chemical Relation of Cobalt and Fullerene in Mixture. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 328-335.	1.0	1
104	Neutron sources for test and calibration of neutron detectors for space research. , 2012, , .		2
105	Symphony and cacophony in ion track etching: how to control etching results. Radiation Effects and Defects in Solids, 2012, 167, 527-540.	0.4	2
106	Functionalization of Silicon Crystal Surface by Energetic Cluster Ion Bombardment. Journal of Nanoscience and Nanotechnology, 2012, 12, 9136-9141.	0.9	0
107	Spatial- and Time-Correlated Detection of Fission Fragments. EPJ Web of Conferences, 2012, 21, 10004.	0.1	2
108	Tuning luminescence properties of silicon nanocrystals by lithium doping. Journal of Applied Physics, 2012, 112, .	1.1	16

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109	High resolution neutron imaging of microfossils. , 2012, , .		1
110	Optimization of transport processes in etched track-based biosensors. Radiation Effects and Defects in Solids, 2012, 167, 548-568.	0.4	8
111	Luminescence of Nanodiamond Driven by Atomic Functionalization: Towards Novel Detection Principles. Advanced Functional Materials, 2012, 22, 812-819.	7.8	131
112	Status and Perspectives of Ion Track Electronics for Advanced Biosensing. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 269-279.	0.2	3
113	Inspection of the metal composite materials using a combination of X-ray radiography and Neutron Imaging. Journal of Instrumentation, 2011, 6, C03001-C03001.	0.5	2
114	Spontaneous growth of the polyhedral fullerene crystals in the supersaturated Niâ [™] C60 composite. Journal of Alloys and Compounds, 2011, 509, S380-S383.	2.8	2
115	Role of grain size in superconducting boron-doped nanocrystalline diamond thin films grown by CVD. Physical Review B, 2011, 84, .	1.1	36
116	Luminescence properties of engineered nitrogen vacancy centers in a close surface proximity. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2051-2056.	0.8	38
117	Slow-neutron-induced charged-particle emission-channeling-measurements with Medipix detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S267-S269.	0.7	1
118	Fabrication Of Buried Self-Organized Stripes In The Niâ ^ˆ C[sub 60] Composite. , 2011, , .		1
119	Separation of intra- and intergranular magnetotransport properties in nanocrystalline diamond films on the metallic side of the metalâ€“insulator transition. New Journal of Physics, 2011, 13, 083008.	1.2	68
120	Characterization and calibration of novel semiconductor detectors of thermal neutrons for ESA space applications. , 2011, , .		1
121	Pulsed Biosensing. IEEE Sensors Journal, 2011, 11, 1084-1087.	2.4	5
122	On the mechanism of charge transfer between neutral and negatively charged nitrogen-vacancy color centers in diamond. Materials Research Society Symposia Proceedings, 2011, 1282, 103.	0.1	0
123	Neutron imaging with micrometric spatial resolution. , 2011, , .		3
124	Adhesion and Growth of Human Osteoblast-Like Cell in Cultures on Nanocomposite Carbon-Based Materials. Nanoscience and Nanotechnology Letters, 2011, 3, 99-109.	0.4	8
125	Enhanced Growth and Osteogenic Differentiation of Human Osteoblast-Like Cells on Boron-Doped Nanocrystalline Diamond Thin Films. PLoS ONE, 2011, 6, e20943.	1.1	70
126	Thermal Effect on Structure Organizations in Cobalt-Fullerene Nanocomposition. Journal of Nanoscience and Nanotechnology, 2010, 10, 2624-2629.	0.9	3

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127	Effect of ion irradiation on structure and thermal evolution of the Ni@C60 hybrid systems. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1976-1979.	0.6	5
128	Raman scattering in silicon disordered by gold ion implantation. Physica Status Solidi (B): Basic Research, 2010, 247, 2022-2026.	0.7	15
129	Spatially correlated and coincidence detection of fission fragments with the pixel detector Timepix. , 2010, , .		6
130	Deconvolution of charged particle spectra from neutron depth profiling using Simplex method. Review of Scientific Instruments, 2010, 81, 073906.	0.6	29
131	Electrical current pulsations through ion irradiated polymer foils in electrolytes. Radiation Effects and Defects in Solids, 2010, 165, 818-833.	0.4	4
132	Funnel-type etched ion tracks in polymers. Radiation Effects and Defects in Solids, 2010, 165, 343-361.	0.4	14
133	Fullerene (C60)@transitional metal (Ti) composites: Structural and biological properties of the thin films. Diamond and Related Materials, 2010, 19, 242-246.	1.8	16
134	Isotopic substitution of boron and carbon in superconducting diamond epilayers grown by MPCVD. Diamond and Related Materials, 2010, 19, 814-817.	1.8	16
135	Semiconducting to metallic-like boron doping of nanocrystalline diamond films and its effect on osteoblastic cells. Diamond and Related Materials, 2010, 19, 190-195.	1.8	25
136	Conducting swift heavy ion track networks. Radiation Effects and Defects in Solids, 2010, 165, 227-244.	0.4	11
137	On Boron Diffusion in MgF ₂ . , 2009, , .		2
138	Hybridization and Modification of the Ni@C ₆₀ Composites. , 2009, , .		2
139	Strategies towards advanced ion track-based biosensors. Radiation Effects and Defects in Solids, 2009, 164, 431-437.	0.4	8
140	Combination of neutronography and radiography for the characterizing of light material distribution in a dense material matrix. , 2009, , .		0
141	Er ⁺ medium energy ion implantation into lithium niobate. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1332-1335.	0.6	6
142	Polymerization of solid C60 under C ₆₀ + cluster ion bombardment. Applied Physics A: Materials Science and Processing, 2009, 95, 867-873.	1.1	3
143	Spontaneous partitioning of the Ni+C60 thin film grown at RT. Journal of Alloys and Compounds, 2009, 483, 374-377.	2.8	4
144	Fullerene nanostructure design with cluster ion impacts. Journal of Alloys and Compounds, 2009, 483, 479-483.	2.8	1

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145	Fullerene C ₆₀ films of continuous and micropatterned morphology as substrates for adhesion and growth of bone cells. <i>Diamond and Related Materials</i> , 2009, 18, 578-586.	1.8	30
146	Self-Assembling Hybrid Nanoparticles During Simultaneous Deposition of Co and C ₆₀ on Sapphire. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4305-4310.	0.9	4
147	Cultivation of human keratinocytes without feeder cells on polymer carriers containing ethoxyethyl methacrylate: in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 883-888.	1.7	11
148	Structural phenomena in glassy carbon induced by cobalt ion implantation. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 673-680.	1.1	13
149	Improved adhesion, growth and maturation of human bone-derived cells on nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2146-2153.	0.8	38
150	Fullerene C ₆₀ and hybrid C ₆₀ /Ti films as substrates for adhesion and growth of bone cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2252-2261.	0.8	39
151	Modification of poly(ether ether ketone) by ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 283-287.	0.6	20
152	Improved adhesion and growth of human osteoblast-like MG 63 cells on biomaterials modified with carbon nanoparticles. <i>Diamond and Related Materials</i> , 2007, 16, 2133-2140.	1.8	87
153	Study of damaged depth profiles of ion-irradiated PEEK. <i>Surface and Coatings Technology</i> , 2007, 201, 8370-8372.	2.2	2
154	Study of anomalous behaviour of LiTaO ₃ during the annealed proton exchange process of optical waveguide™s formation – comparison with LiNbO ₃ . <i>Optical Materials</i> , 2007, 29, 913-918.	1.7	10
155	Localised doping of Li-silicate glasses by Er ³⁺ ion exchange to fabricate thin optical layers. <i>Optical Materials</i> , 2007, 29, 753-759.	1.7	1
156	CdTe hybrid pixel detector for imaging with thermal neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 563, 238-241.	0.7	17
157	Neutron imaging and tomography with Medipix2 and dental micro-roentgenography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 205-209.	0.7	16
158	RBS, PIXE and NDP study of erbium incorporation into glass surface for photonics applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 856-858.	0.6	3
159	Neutron imaging with Medipix-2 chip and a coated sensor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 560, 143-147.	0.7	41
160	Diffusion of ⁶ Li in Ta and W. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 865-868.	0.6	5
161	Macroporous hydrogels based on 2-hydroxyethyl methacrylate. Part 5: Hydrolytically degradable materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1357-1364.	1.7	26
162	Macroporous hydrogels based on 2-hydroxyethyl methacrylate. Part 4: Growth of rat bone marrow stromal cells in three-dimensional hydrogels with positive and negative surface charges and in polyelectrolyte complexes. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 829-833.	1.7	51

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163	Spatial resolution of Medipix-2 device as neutron pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 164-169.	0.7	23
164	Laser-induced phase separation in the nickel–fullerene nano-composite. Journal of Physics and Chemistry of Solids, 2005, 66, 581-584.	1.9	5
165	Performance of a pixel detector suited for slow neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 283-287.	0.7	18
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167	Diffusion of ${}^6\text{Li}$ in Tantalum and Tungsten Studied by the Neutron Depth Profiling Technique. Defect and Diffusion Forum, 2005, 237-240, 485-490.	0.4	4
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