

Andreas Markwitz

List of Publications by Year in descending order

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246
papers

4,650
citations

94269

37
h-index

138251

58
g-index

248
all docs

248
docs citations

248
times ranked

4275
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of multiple magnetic phases and complex nanostructures in Co implanted amorphous carbon films. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 127, 158-163.	1.9	6
2	Decorative black coatings on titanium surfaces based on hard bi-layered carbon coatings synthesized by carbon implantation. <i>Surface and Coatings Technology</i> , 2019, 358, 386-393.	2.2	14
3	²⁸ Si+ ion beams from Penning ion source based implanter systems for near-surface isotopic purification of silicon. <i>Review of Scientific Instruments</i> , 2018, 89, 123305.	0.6	17
4	Collision cascades enhanced hydrogen redistribution in cobalt implanted hydrogenated diamond-like carbon films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 394, 6-11.	0.6	7
5	Hydrogen-related excitons and their excited-state transitions in ZnO. <i>Physical Review B</i> , 2017, 95, .	1.1	29
6	Self-assembly of magnetic nanoclusters in diamond-like carbon by diffusion processes enhanced by collision cascades. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	10
7	Positioning of cobalt atoms in amorphous carbon films by pre-selecting the hydrogen concentration. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 409, 116-120.	0.6	3
8	Molecular carbon nitride ion beams for enhanced corrosion resistance of stainless steel. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 409, 86-90.	0.6	3
9	Ferromagnetism in a diamond-like carbon film after nickel implantation. <i>International Journal of Nanotechnology</i> , 2017, 14, 100.	0.1	2
10	Controlling preferred orientation and electrical conductivity of zinc oxide thin films by post growth annealing treatment. <i>Applied Surface Science</i> , 2016, 367, 52-58.	3.1	229
11	Ferromagnetic order in diamond-like carbon films by Co implantation. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 055002.	1.3	11
12	Near-surface hydrogen depletion of diamond-like carbon films produced by direct ion deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 371, 230-234.	0.6	7
13	High Energy Radial Deposition of Diamond-Like Carbon Coatings. <i>Coatings</i> , 2015, 5, 326-337.	1.2	11
14	Transition Metal Ion Implantation into Diamond-Like Carbon Coatings: Development of a Base Material for Gas Sensing Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	18
15	Particulate matter sources on an hourly timescale in a rural community during the winter. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 501-508.	0.9	13
16	Sources and transport of particulate matter on an hourly time-scale during the winter in a New Zealand urban valley. <i>Urban Climate</i> , 2014, 10, 644-655.	2.4	12
17	A novel radial anode layer ion source for inner wall pipe coating and materials modification—Hydrogenated diamond-like carbon coatings from butane gas. <i>Review of Scientific Instruments</i> , 2014, 85, 085118.	0.6	17
18	Ultra-smooth diamond-like carbon coatings with high elasticity deposited at low temperature by direct ion beam deposition. <i>Surface and Coatings Technology</i> , 2014, 258, 956-962.	2.2	19

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19	Loss of implanted heavy elements during annealing of ultra-shallow ion-implanted silicon: The complete picture. Applied Surface Science, 2014, 314, 322-330.	3.1	4
20	Room temperature diamond-like carbon coatings produced by low energy ion implantation. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 144-148.	0.6	14
21	Enhanced reduction of silicon oxide thin films on silicon under electron beam annealing. Nuclear Instruments & Methods in Physics Research B, 2014, 332, 421-425.	0.6	2
22	Long term airborne lead pollution monitoring in Bandung, Indonesia. International Journal of PIXE, 2014, 24, 151-159.	0.4	6
23	Sources of particulate matter pollution in a small New Zealand city. Atmospheric Pollution Research, 2014, 5, 572-580.	1.8	18
24	Structural and chemical changes during the growth of Fe nanoparticles in SiO ₂ under low energy ion implantation. International Journal of Nanotechnology, 2014, 11, 466.	0.1	4
25	Arsenic and air pollution in New Zealand. Arsenic in the Environment Proceedings, 2014, , 394-395.	0.0	1
26	Characterization of airborne particulate matter collected at Jakarta roadside of an arterial road. Journal of Radioanalytical and Nuclear Chemistry, 2013, 297, 165-169.	0.7	19
27	Determination of chemical elements in airborne particulate matter collected at Lembang, Indonesia by particle induced X-ray emission. Journal of Radioanalytical and Nuclear Chemistry, 2013, 297, 177-182.	0.7	4
28	Use of micro-proton elastic scattering analysis to determine water content in geological powders. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 257-260.	0.6	3
29	Magnetic-ion-doped silicon nanostructures fabricated by ion implantation and electron beam annealing. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 131-136.	0.6	0
30	Atomic retention and near infrared photoluminescence from PbSe nanocrystals fabricated by sequential ion implantation and electron beam annealing. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 154-157.	0.6	9
31	Carbonaceous aerosols in a wood burning community in rural New Zealand. Atmospheric Pollution Research, 2013, 4, 245-249.	1.8	19
32	Correlation between microstructural and magnetic properties of Tb implanted ZnO. AIP Conference Proceedings, 2013, , .	0.3	7
33	Transition metal doped metal oxide nanostructures synthesized by arc discharge method. , 2013, , .		0
34	Air pollution by fine particulate matter in Bangladesh. Atmospheric Pollution Research, 2013, 4, 75-86.	1.8	125
35	PIXE analysis of PM _{2.5} and PM _{2.5} × 10 ³ for air quality assessment of Islamabad, Pakistan: Application of chemometrics for source identification. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 2016-2027.	0.9	19
36	AIR PARTICULATE MATTER POLLUTION IN ULAANBAATAR CITY, MONGOLIA. International Journal of PIXE, 2012, 22, 165-171.	0.4	6

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37	RECENT DEVELOPMENTS IN THE AIR PARTICULATE RESEARCH CAPABILITY AT THE NEW ZEALAND ION BEAM ANALYSIS FACILITY. <i>International Journal of PIXE</i> , 2012, 22, 121-130.	0.4	5
38	Composition and source contributions of air particulate matter pollution in a New Zealand suburban town. <i>Atmospheric Pollution Research</i> , 2012, 3, 143-147.	1.8	26
39	Identification of Particulate Matter Sources on an Hourly Time-Scale in a Wood Burning Community. <i>Environmental Science & Technology</i> , 2012, 46, 4767-4774.	4.6	39
40	Room temperature oxidation of magnetron sputtered Si ¹⁵ N films. <i>Applied Surface Science</i> , 2012, 258, 2944-2947.	3.1	3
41	Solid phase epitaxy of ultra-shallow Sn implanted Si observed using high-resolution Rutherford backscattering spectrometry. <i>Applied Physics Letters</i> , 2012, 101, 081602.	1.5	2
42	Ion-beam synthesis of 3C-SiC surface layers on silicon. <i>Surface and Interface Analysis</i> , 2012, 44, 399-404.	0.8	1
43	Size-fractionated airborne particulate matter characterization of a residential area near Islamabad airport by IBA methods. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 293, 279-287.	0.7	5
44	Air quality study of Islamabad: preliminary results. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 293, 351-358.	0.7	17
45	Morphology and characterization of TiO ₂ nanoparticles synthesized by arc discharge. <i>Chemical Physics Letters</i> , 2012, 521, 86-90.	1.2	66
46	Structural and magnetic properties of low-energy Gd implanted ZnO single crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 100-103.	0.6	21
47	High temperature annealing effects on low energy iron implanted SiO ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 273, 182-185.	0.6	6
48	Formation of nanoclusters with varying Pb/Se concentration and distribution after sequential Pb ⁺ and Se ⁺ ion implantation into SiO ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 273, 199-202.	0.6	6
49	Evolution of the structure and magneto-optical properties of ion beam synthesized iron nanoclusters. <i>Journal of Materials Science</i> , 2012, 47, 1127-1134.	1.7	11
50	Effect of annealing on the structural, electrical and magnetic properties of Gd-implanted ZnO thin films. <i>Journal of Materials Science</i> , 2012, 47, 1119-1126.	1.7	69
51	Exploring the Variation between EC and BC in a Variety of Locations. <i>Aerosol and Air Quality Research</i> , 2012, 12, 1-7.	0.9	78
52	Organic and Black Carbon in PM _{2.5} at an Urban Site at Dhaka, Bangladesh. <i>Aerosol and Air Quality Research</i> , 2012, 12, 1062-1072.	0.9	48
53	Sensors based on metal oxide nanostructures synthesized by arc discharge. , 2011, , .		3
54	Size-controlled synthesis and gas sensing application of tungsten oxide nanostructures produced by arc discharge. <i>Nanotechnology</i> , 2011, 22, 335702.	1.3	73

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55	High conductivity transparent carbon nanotube films deposited from superacid. <i>Nanotechnology</i> , 2011, 22, 309502.	1.3	3
56	Preliminary study of the sources of ambient air pollution in Serpong, Indonesia. <i>Atmospheric Pollution Research</i> , 2011, 2, 190-196.	1.8	55
57	Chemical Characterization and Source Identification of Particulate Matter at an Urban Site of Navi Mumbai, India. <i>Aerosol and Air Quality Research</i> , 2011, 11, 560-569.	0.9	91
58	Long-range transport of soil dust and smoke pollution in the South Asian region. <i>Atmospheric Pollution Research</i> , 2011, 2, 151-157.	1.8	70
59	Growth of silicon carbide surface nanocrystals on silicon under high-temperature vacuum annealing. <i>Vacuum</i> , 2011, 86, 165-170.	1.6	2
60	Carbonaceous aerosols in an urban tunnel. <i>Atmospheric Environment</i> , 2011, 45, 4463-4469.	1.9	61
61	Multiblock analysis of environmental measurements: A case study of using Proton Induced X-ray Emission and meteorology dataset obtained from Islamabad Pakistan. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 107, 31-43.	1.8	4
62	Dual N/Pb ion-implanted Si: Temperature dependence of the novel shift of the Pb peak under electron beam annealing. <i>Applied Surface Science</i> , 2011, 257, 4856-4862.	3.1	1
63	Fabrication of surface magnetic nanoclusters using low energy ion implantation and electron beam annealing. <i>Nanotechnology</i> , 2011, 22, 115602.	1.3	67
64	Nitrogen self-diffusion in magnetron sputtered Si-C-N films. <i>Journal of Applied Physics</i> , 2011, 109, 093522.	1.1	6
65	Large room temperature magnetoresistance in ion beam synthesized surface Fe nanoclusters on SiO ₂ . <i>Applied Physics Letters</i> , 2011, 98, .	1.5	55
66	Structural and photoluminescence properties of Gd implanted ZnO single crystals. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	76
67	Characterization of the Structural and Electrical Properties of Ion Beam Sputtered ZnO Films. <i>Materials Science Forum</i> , 2011, 700, 49-52.	0.3	9
68	Air particulate matter pollution in Ulaanbaatar, Mongolia: determination of composition, source contributions and source locations. <i>Atmospheric Pollution Research</i> , 2011, 2, 126-137.	1.8	76
69	Electron Beam Annealing of Fe+ Implanted Si Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6556-6561.	0.9	4
70	Modulation of Field Emission Properties of ZnO Nanorods During Arc Discharge. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 8239-8243.	0.9	53
71	Field Emission from Silicon Implanted with Carbon and Nitrogen Followed by Electron Beam Annealing. <i>Journal of Electronic Materials</i> , 2010, 39, 1262-1267.	1.0	0
72	The Effect of Substrate Surface Oxides on the Bonding of NiCr Alloy Particles HVOF Thermally Sprayed onto Aluminum Substrates. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 1024-1031.	1.6	7

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73	SEM/EDS study of metal-assisted oxide desorption. Surface Science, 2010, 604, 1531-1535.	0.8	7
74	Diffusion of Pb in (100) Si under electron beam annealing following dual ion implantations of Pb/Ne, Pb/O and Pb/N. Vacuum, 2010, 84, 1103-1110.	1.6	2
75	Properties of nitrogen implanted and electron beam annealed bulk ZnO. Journal of Applied Physics, 2010, 107, .	1.1	70
76	Ordered array of self-assembled SiC nanocrystals fabricated by selective oxide desorption and nanosphere lithography. Nanotechnology, 2010, 21, 495302.	1.3	1
77	Influence of environmental conditions on carbonaceous particle concentrations within New Zealand. Journal of Aerosol Science, 2010, 41, 134-142.	1.8	26
78	Fabrication and characterization of integrated field emission diodes using self-assembled-silicon-nanostructure cathodes. , 2010, , .		0
79	Synthesis and structure of Na ⁺ -intercalated WO ₃ (4,4'-bipyridyl) _{0.5} . Chemical Communications, 2010, 46, 4261.	2.2	8
80	Identification of Sources of Fine and Coarse Particulate Matter in Dhaka, Bangladesh. Aerosol and Air Quality Research, 2010, 10, 345-353.	0.9	93
81	Atomic transport in metastable compounds: Case study of self-diffusion in SiC using neutron reflectometry. Physical Review B, 2009, 80, .	1.1	14
82	Flux Pinning Centers In Metal Organic Deposited YBCO Coated Conductors. AIP Conference Proceedings, 2009, , .	0.3	4
83	Low Energy Fe ⁺ ion implantation into silicon nanostructures. , 2009, , .		2
84	Conductive atomic force microscopy study of self-assembled silicon nanostructures. Journal of Vacuum Science & Technology B, 2009, 27, 3051.	1.3	6
85	Compositional and Structural Study of Gd Implanted ZnO Films. , 2009, , .		4
86	Field emission measured from nanostructured germanium and silicon thin films. Applied Surface Science, 2009, 256, 1003-1005.	3.1	3
87	Flux pinning by discontinuous columnar defects in 74MeV Ag-irradiated YBa ₂ Cu ₃ O ₇ coated conductors. Physica C: Superconductivity and Its Applications, 2009, 469, 2060-2067.	0.6	46
88	Controlled fabrication of Si nanostructures by high vacuum electron beam annealing. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1853-1858.	1.3	6
89	Growth temperature and plasma power effects on N incorporation in InSbN grown by molecular beam epitaxy. Physica Status Solidi - Rapid Research Letters, 2009, 3, 263-265.	1.2	6
90	UV and humidity sensing properties of ZnO nanorods prepared by the arc discharge method. Nanotechnology, 2009, 20, 245502.	1.3	231

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91	Onset Temperature for Si Nanostructure Growth on Si Substrate During High Vacuum Electron Beam Annealing. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2950-2955.	0.9	4
92	Group-IV and V ion implantation into nanomaterials and elemental analysis on the nanometre scale. <i>International Journal of Nanotechnology</i> , 2009, 6, 369.	0.1	66
93	Sub-surface retention of Pb atoms in silicon after low-energy ion implantation and electron beam annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1553-1557.	0.6	5
94	Ion beam analysis of rare earth nitride thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1558-1561.	0.6	8
95	Optimised process for fabricating functional silicon nanowhisker arrays. <i>Current Applied Physics</i> , 2008, 8, 395-399.	1.1	0
96	Nanostructuring at the surface of low-energy lead-implanted silicon by electron beam annealing. <i>Surface and Interface Analysis</i> , 2008, 40, 931-934.	0.8	6
97	Raman scattering investigation of hydrogen and nitrogen ion implanted ZnO thin films. <i>Current Applied Physics</i> , 2008, 8, 291-294.	1.1	66
98	²⁶ Al tracer diffusion in titanium doped single crystalline $\hat{1}\pm$ -Al ₂ O ₃ . <i>Solid State Ionics</i> , 2008, 179, 373-379.	1.3	29
99	Diffusion of Pb in carbon ion-implanted silicon: Discovery of a new crystalline phase after electron beam annealing. <i>Vacuum</i> , 2008, 82, 1306-1311.	1.6	4
100	Self-assembled germanium nanostructures formed using electron-beam annealing. <i>Current Applied Physics</i> , 2008, 8, 276-279.	1.1	7
101	PIXE analysis of sand and soil from Ulaanbaatar and Karakorum, Mongolia. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 4010-4019.	0.6	12
102	The strontium content of roe collected from spawning brown trout <i>Salmo trutta</i> L. reflects recent otolith microchemistry. <i>Journal of Fish Biology</i> , 2008, 72, 1847-1854.	0.7	9
103	Urban air quality in the Asian region. <i>Science of the Total Environment</i> , 2008, 404, 103-112.	3.9	160
104	Restrictions on fluorine depth profiling for exposure age dating in archaeological bones. <i>Journal of Archaeological Science</i> , 2008, 35, 535-552.	1.2	20
105	THREE DIMENSIONAL IMAGING OF OTOLITHS. <i>International Journal of PIXE</i> , 2008, 18, 131-137.	0.4	1
106	PIXE ANALYSIS OF SEDIMENTS AFFECTED BY THE DECEMBER 2004 INDIAN OCEAN TSUNAMI. <i>International Journal of PIXE</i> , 2008, 18, 227-240.	0.4	5
107	Depth Profiling of N and C in Ion Implanted ZnO and Si Using Deuterium Induced Nuclear Reaction Analysis. , 2008, , .		1
108	Universal characteristics of resonant-tunneling field emission from nanostructured surfaces. <i>Journal of Applied Physics</i> , 2007, 101, 123712.	1.1	18

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109	Enhanced Flux Pinning in MOD Second Generation HTS Wires by Silver- and Copper-Ion Irradiation. IEEE Transactions on Applied Superconductivity, 2007, 17, 3306-3309.	1.1	7
110	Characteristics of hetero-junction diodes based on ion beam sputtered ZnO thin films. , 2007, , .		3
111	Elemental analysis of urban stormwater particulate matter by PIXE. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 435-439.	0.6	4
112	X-ray diffraction study of low-energy carbon-ion implanted Si(001). Surface and Interface Analysis, 2007, 39, 415-418.	0.8	1
113	Surface cavities produced by high-dose nitrogen ion implantation into silicon. Surface and Interface Analysis, 2007, 39, 698-701.	0.8	5
114	Ion Beam Analysis of Amorphous and Nanocrystalline Group III-V Nitride and ZnO Thin Films. Journal of Electronic Materials, 2007, 36, 472-482.	1.0	63
115	Oxygen uptake of InN thin films as determined by ion beam analysis. Thin Solid Films, 2007, 515, 3736-3739.	0.8	5
116	Microprobe analysis of brine shrimp grown on meteorite extracts. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 184-189.	0.6	4
117	Deuteron microprobe analysis of carbon in the transition region between SiC and Si nanostructures grown on Si. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 325-328.	0.6	1
118	Field-Emission Diode and Triode Structures Using Self-Assembled Silicon Nanostructure Cathodes. , 2006, , .		0
119	Atom ingress from synthetic body fluid into nanoporous layers formed in titanium by helium ion-implantation. Current Applied Physics, 2006, 6, 327-330.	1.1	2
120	Modification of electrical conductivity in RF magnetron sputtered ZnO films by low-energy hydrogen ion implantation. Current Applied Physics, 2006, 6, 495-498.	1.1	62
121	Field emission properties of self-assembled silicon nanostructures formed by electron beam annealing. Current Applied Physics, 2006, 6, 503-506.	1.1	11
122	Formation of large SiC nanocrystals on Si(100) by ¹² C implantation and electron beam annealing. Current Applied Physics, 2006, 6, 507-510.	1.1	9
123	A nuclear reaction analysis and optical microscopy study on controlled growth of large SiC nanocrystals on Si formed by low-energy ion implantation and electron beam annealing. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 105-108.	0.6	3
124	Effect of Substrate Hardness on Splat Morphology in High-Velocity Thermal Spray Coatings. Journal of Thermal Spray Technology, 2006, 15, 663-669.	1.6	37
125	Single phase nanocrystalline GaMnN thin films with high Mn content. Journal of Applied Physics, 2006, 100, 084310.	1.1	12
126	Field Emission Resonances from Self-Assembled Silicon Nnanostructures. , 2006, , .		1

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127	Simultaneous formation of SiC and Si nanostructures on silicon by local ion implantation and electron beam annealing. Applied Physics Letters, 2006, 89, 153122.	1.5	11
128	CHARACTERIZATION OF ZnO FILMS BY ION BEAM ANALYSIS. International Journal of Modern Physics B, 2006, 20, 4655-4660.	1.0	5
129	Optical and compositional properties of indium nitride grown by plasma assisted molecular beam epitaxy. Smart Materials and Structures, 2006, 15, S87-S91.	1.8	2
130	AN OVERVIEW OF THE RCA/IAEA ACTIVITIES IN THE AUSTRALASIAN REGION USING NUCLEAR ANALYSIS TECHNIQUES FOR MONITORING AIR POLLUTION. International Journal of PIXE, 2005, 15, 271-276.	0.4	2
131	Co ₂ MnX (XSi, Ge, Sn, SbSn) thin films grown by pulsed-laser deposition. Journal of Crystal Growth, 2005, 275, e1183-e1188.	0.7	6
132	Evidence of Mechanical Interlocking of NiCr Particles Thermally Sprayed onto Al Substrates. Journal of Thermal Spray Technology, 2005, 14, 524-529.	1.6	21
133	Polycrystalline InGaN grown by MBE on fused silica glass. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2236-2239.	0.8	6
134	Heavy-ion elastic recoil detection analysis as a useful tool for tracking experimental modifications in bulk calcium silicates. Surface and Interface Analysis, 2005, 37, 695-698.	0.8	4
135	FLUORINE AND CALCIUM PROFILING BY PIGE/PIXE FOR EXPOSURE AGE DATING IN ARCHAEOLOGY. International Journal of PIXE, 2005, 15, 327-335.	0.4	3
136	EVIDENCE FOR GIANT KOKOPU MIGRATION BETWEEN FRESHWATER ENVIRONMENTS FROM MICROPIXE MEASUREMENTS OF SR IN OTOLITHS. International Journal of PIXE, 2005, 15, 139-145.	0.4	1
137	CHRONOSEQUENCES OF STRONTIUM IN THE OTOLITHS OF TWO NEW ZEALAND MIGRATORY FRESHWATER FISH, INANGA (GALAXIAS MACULATUS) AND KOARO (G. BREVIPINNIS). International Journal of PIXE, 2005, 15, 95-101.	0.4	5
138	Atmospheric pressure operation of a field emission diode based on self-assembled silicon nanostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1445.	1.6	9
139	Patterned growth of self-assembled silicon nanostructures by ion implantation and electron beam annealing. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1459.	1.6	8
140	Formation of SiC-surface nanocrystals by ion implantation and electron beam rapid thermal annealing. Applied Physics Letters, 2005, 86, 013108.	1.5	23
141	Magnetic and optical properties of the InCrN system. Journal of Applied Physics, 2005, 98, 043903.	1.1	32
142	ELEMENTAL ANALYSIS AND SOURCE APPORTIONMENT OF AMBIENT PARTICULATE MATTER AT MASTERTON, NEW ZEALAND. International Journal of PIXE, 2005, 15, 225-231.	0.4	4
143	AIR PARTICULATE RESEARCH CAPABILITY AT THE NEW ZEALAND ION BEAM ANALYSIS FACILITY USING PIXE AND IBA TECHNIQUES. International Journal of PIXE, 2005, 15, 249-255.	0.4	33
144	Effect of crystal orientation on self-assembled silicon nanostructures formed by electron-beam annealing. Journal of Applied Physics, 2005, 97, 094301.	1.1	16

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145	Comparison of DC and RF Sputtered Zinc Oxide Films with Post-Annealing and Dry Etching and Effect on Crystal Composition. Japanese Journal of Applied Physics, 2005, 44, 7555-7560.	0.8	15
146	Optical conductivity and x-ray absorption and emission study of the band structure of MnN films. Physical Review B, 2005, 72, .	1.1	11
147	Field emission properties of self-assembled silicon nanostructures on n- and p-type silicon. Applied Physics Letters, 2004, 85, 3277-3279.	1.5	47
148	Nanostructuring of silicon (100) using electron beam rapid thermal annealing. Journal of Applied Physics, 2004, 96, 605-609.	1.1	40
149	Quantitative study of molecular N ₂ trapped in disordered GaN:O films. Physical Review B, 2004, 70, .	1.1	32
150	Structural and optical properties of indium nitride grown by plasma-assisted molecular beam epitaxy. , 2004, , .		4
151	GROWTH OF SiC NANOSTRUCTURES ON Si (100) USING LOW ENERGY CARBON ION IMPLANTATION AND ELECTRON BEAM RAPID THERMAL ANNEALING. International Journal of Nanoscience, 2004, 03, 425-430.	0.4	5
152	SUPPRESSION OF SILICON NANOSTRUCTURE GROWTH BY MEDIUM ENERGY NITROGEN ION IMPLANTATION. International Journal of Nanoscience, 2004, 03, 431-437.	0.4	1
153	SiC nanoboulders on silicon – a nuclear reaction analysis study of low energy ¹³ C implanted and subsequently electron beam annealed (100) silicon. Nuclear Instruments & Methods in Physics Research B, 2004, 217, 583-588.	0.6	16
154	A method for improving the efficiency of proton microprobe profiling of strontium in otoliths using a vacuum compatible NaI detector. Nuclear Instruments & Methods in Physics Research B, 2004, 217, 521-524.	0.6	4
155	Analysis of heteroepitaxial germanium on gallium arsenide grown by pulsed laser deposition. Current Applied Physics, 2004, 4, 229-232.	1.1	1
156	Optimization of Non-Fluorine Sol-Gel Derived YBCO Thin Films. Journal of Electroceramics, 2004, 13, 361-365.	0.8	1
157	Depth profiling of light elements in PAMBE-grown GaN and helium-implanted titanium with heavy ion time-of-flight elastic recoil detection. Surface and Interface Analysis, 2004, 36, 317-322.	0.8	4
158	Photocatalytic titania coatings. Current Applied Physics, 2004, 4, 189-192.	1.1	71
159	Characterisation of polycrystalline gallium nitride grown by plasma-assisted evaporation. Current Applied Physics, 2004, 4, 225-228.	1.1	15
160	Plasma immersion nitrogen implantation into silicon and rapid thermal electron beam annealing for surface structuring. Current Applied Physics, 2004, 4, 241-244.	1.1	1
161	Surface smoothing of thin HfC YBa ₂ Cu ₃ O _{7-δ} superconducting films by high-energy iodine ions. Current Applied Physics, 2004, 4, 288-291.	1.1	0
162	Carbon depth profiling of superconducting YBCO thin films on nanometer scale. Current Applied Physics, 2004, 4, 292-295.	1.1	4

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163	Self-assembled silicon nanostructure growth by electron beam annealing. , 2004, , .		0
164	NEXAFS and AFM characterization of Si implanted GaN. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 120-125.	0.6	2
165	Formation of micrometer sized crater shaped pits in silicon by low-energy $^{22}\text{Ne}^+$ implantation and electron beam annealing. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 179-183.	0.6	10
166	Uptake of light elements of nanoporous layers formed by helium ion implantation. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 1056-1061.	0.6	7
167	Probing for heavy element impurities in the shell of the Pacific oyster, <i>Crassostrea gigas</i> , with nuclear microscopy. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 418-423.	0.6	1
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