

# Mark B H Breese

## List of Publications by Year in descending order

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173  
papers

4,259  
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126858

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docs citations

180  
times ranked

5399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling a new many-body large-hole polaron in a transition metal oxide that promotes high photocatalytic activity. NPG Asia Materials, 2022, 14, .	3.8	5
2	Nanoporous TiCN with High Specific Surface Area for Enhanced Hydrogen Evolution Reaction. ACS Applied Nano Materials, 2022, 5, 12077-12086.	2.4	9
3	Tunable Spin Correlated Plasmons Ranging from Infrared to Ultraviolet in Pr <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> . Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000257.	1.2	2
4	Microporous Carbon Nitride (C <sub>3</sub> N <sub>5.4</sub> ) with Tetrazine based Molecular Structure for Efficient Adsorption of CO <sub>2</sub> and Water. Angewandte Chemie, 2021, 133, 21412-21419.	1.6	6
5	A New Spin-Correlated Plasmon in Novel Highly Oriented Single-Crystalline Gold Quantum Dots. Nano Letters, 2021, 21, 7448-7456.	4.5	7
6	Room Temperature Ferromagnetism of Monolayer Chromium Telluride with Perpendicular Magnetic Anisotropy. Advanced Materials, 2021, 33, e2103360.	11.1	84
7	A wireless and battery-free wound infection sensor based on DNA hydrogel. Science Advances, 2021, 7, eabj1617.	4.7	68
8	Unravelling strong electronic interlayer and intralayer correlations in a transition metal dichalcogenide. Nature Communications, 2021, 12, 6980.	5.8	9
9	Giant piezoelectricity in oxide thin films with nanopillar structure. Science, 2020, 369, 292-297.	6.0	86
10	Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. Advanced Materials, 2020, 32, 2000153.	11.1	10
11	Cuprate Thin Films: Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors (Adv. Mater. 34/2020). Advanced Materials, 2020, 32, 2070257.	11.1	0
12	Photoinduced metastable dd-exciton-driven metal-insulator transitions in quasi-one-dimensional transition metal oxides. Communications Physics, 2020, 3, .	2.0	3
13	Can Reconstructed Se-Deficient Line Defects in Monolayer VSe <sub>2</sub> Induce Magnetism?. Advanced Materials, 2020, 32, e2000693.	11.1	87
14	Correlated plasmons in the topological insulator Bi <sub>2</sub> Se <sub>3</sub> induced by long-range electron correlations. NPG Asia Materials, 2020, 12, .	3.8	11
15	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. Nature Catalysis, 2020, 3, 554-563.	16.1	284
16	Unusual Hole and Electron Midgap States and Orbital Reconstructions Induced Huge Ferroelectric Tunneling Electroresistance in BaTiO <sub>3</sub> /SrTiO <sub>3</sub> . Nano Letters, 2020, 20, 1101-1109.	4.5	7
17	Optical constants and absorption properties of Te and TeO thin films in the 13-14 μm spectral range. Optics Express, 2020, 28, 12922.	1.7	9
18	Nanoscale dielectric grating polarizers tuned to 443 nm for ultraviolet polarimetry. Optics Express, 2020, 28, 12936.	1.7	1

#	ARTICLE	IF	CITATIONS
19	Transition-Metal Dichalcogenides: Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides (Adv. Sci. 10/2020). Advanced Science, 2020, 7, .	5.6	1
20	Layer Rotation-Angle-Dependent Excitonic Absorption in van der Waals Heterostructures Revealed by Electron Energy Loss Spectroscopy. ACS Nano, 2019, 13, 9541-9550.	7.3	25
21	A scripting LabVIEW based program for experiment automation in synchrotron radiation applications. Review of Scientific Instruments, 2019, 90, .	0.6	8
22	Quantum Correlated Plasmons and Their Tunability in Undoped and Doped Mott-Insulator Cuprates. ACS Photonics, 2019, 6, 3281-3289.	3.2	9
23	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. ACS Nano, 2019, 13, 14529-14539.	7.3	10
24	Electronic correlation determining correlated plasmons in Sb-doped $B_{i-2}S_e$ . Physical Review B, 2018, 98, 115101.	1.1	5
25	Dual phases of crystalline and electronic structures in the nanocrystalline perovskite CsPbBr <sub>3</sub> . NPG Asia Materials, 2019, 11, .	3.8	41
26	Revealing Chemical Heterogeneity of CNT Fiber Nanocomposites via Nanoscale Chemical Imaging. Chemistry of Materials, 2018, 30, 1856-1864.	3.2	17
27	Large Enhancement of 2D Electron Gases Mobility Induced by Interfacial Localized Electron Screening Effect. Advanced Materials, 2018, 30, e1707428.	11.1	17
28	Tunable Mid-Infrared Phase-Change Metasurface. Advanced Optical Materials, 2018, 6, 1701346.	3.6	112
29	A study of small impact parameter ion channeling effects in thin crystals. European Physical Journal B, 2018, 91, 1.	0.6	2
30	Influence of spectral resolution, spectral range and signal-to-noise ratio of Fourier transform infra-red spectra on identification of high explosive substances. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 106-112.	2.0	5
31	Orthorhombic Ti <sub>2</sub> O <sub>3</sub> : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. Advanced Functional Materials, 2018, 28, 1705657.	7.8	36
32	Modulation of Manganite Nanofilm Properties Mediated by Strong Influence of Strontium Titanate Excitons. ACS Applied Materials & Interfaces, 2018, 10, 35563-35570.	4.0	5
33	A soft x-ray-ultraviolet (SUV) beamline and diffractometer for resonant elastic scattering and ultraviolet-vacuum ultraviolet reflectance at the Singapore synchrotron light source. Review of Scientific Instruments, 2018, 89, 113113.	0.6	21
34	Oxygen electronic screening and hybridization determining the insulator-metal transition of Eu <sub>1-x</sub> Physical Review B, 2018, 98, .	11	2
35	The Effect of Hydrogen Doping on the Electrochemical Etching of Ion-Irradiated n-Type Silicon. ECS Journal of Solid State Science and Technology, 2018, 7, N110-N113.	0.9	1
36	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. Chemistry of Materials, 2018, 30, 4383-4392.	3.2	42

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37	Ion Beam Based Patterning of Porous Silicon. , 2018, , 815-834.		1
38	Methodological approach for trace and essential elements assessment in prostate tissue by SRIXE method. Folia Medica Cracoviensia, 2018, 58, 25-41.	0.3	0
39	Magnetic Fano resonances by design in symmetry broken THz meta-foils. Scientific Reports, 2017, 7, 41869.	1.6	2
40	Electron transport and visible light absorption in a plasmonic photocatalyst based on strontium niobate. Nature Communications, 2017, 8, 15070.	5.8	64
41	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. Nature Communications, 2017, 8, 15271.	5.8	42
42	Investigation of the metal-insulator transition in NdNiO <sub>3</sub> films by site-selective X-ray absorption spectroscopy. Nanoscale, 2017, 9, 6094-6102.	2.8	28
43	Oxygen Passivation Mediated Tunability of Trion and Excitons in $\text{MoS}_2$ Physical Review Letters, 2017, 119, 077402.	2.9	55
44	An accurate optical design method for synchrotron radiation beamlines with wave-front aberration theory. AIP Conference Proceedings, 2016, , .	0.3	0
45	Experimental evidence of the superfocusing effect for axially channeled MeV protons. Physical Review B, 2016, 94, .	1.1	7
46	Electronic defect states at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterointerface revealed by O K-edge X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 13844-13851.	1.3	29
47	Coexistence of Midgap Antiferromagnetic and Mott States in Undoped, Hole- and Electron-Doped Ambipolar Cuprates. Physical Review Letters, 2016, 116, 197002.	2.9	13
48	Ion Beam Based Patterning of Porous Silicon. , 2016, , 1-20.		0
49	The pituitary gland under infrared light in search of a representative spectrum for homogeneous regions. Analyst, The, 2015, 140, 2156-2163.	1.7	15
50	Depth-Resolved Imaging of Radiation-Induced Doping Changes in Silicon. ECS Journal of Solid State Science and Technology, 2015, 4, P462-P467.	0.9	3
51	Conditioned bio-interfaces of silicon/porous silicon micro-patterns lead to the chondrogenesis of hMSCs. RSC Advances, 2015, 5, 92263-92269.	1.7	5
52	Pre-processing of Fourier transform infrared spectra by means of multivariate analysis implemented in the R environment. Analyst, The, 2015, 140, 2810-2814.	1.7	2
53	Unraveling how electronic and spin structures control macroscopic properties of manganite ultra-thin films. NPG Asia Materials, 2015, 7, e196-e196.	3.8	20
54	XAFCA: a new XAFS beamline for catalysis research. Journal of Synchrotron Radiation, 2015, 22, 839-843.	1.0	125

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55	Fabrication of 3D photonic components on bulk crystalline silicon. Optics Express, 2015, 23, 121.	1.7	7
56	Optical conductivity renormalization of graphene on $\text{SrTiO}_3$ due to resonant excitonic effects mediated by Ti	1.1	20
57	Anomalous spectral weight transfer of $\text{VO}_2$ due to oxygen screening and electronic correlations in the insulator-metal transition of $\text{VO}_2$ . Physical Review B, 2015, 91, .	1.1	16
58	Near-field enhancement of periodic nanostructures for photovoltaic applications: a theoretical study. Journal of Optics (United Kingdom), 2014, 16, 125012.	1.0	4
59	Theoretical investigation of "nano-muffin" and inverted nano-pyramid surface textures for energy harvesting in very thin c-Si solar cells. Materials Research Society Symposia Proceedings, 2014, 1638, 1.	0.1	5
60	A study of buried channel formation in oxidized porous silicon. RSC Advances, 2014, 4, 57402-57411.	1.7	7
61	Enhanced electrochemical etching of ion irradiated silicon by localized amorphization. Applied Physics Letters, 2014, 104, 192108.	1.5	3
62	Integration of nano-scale components and supports in micromachined 3D silicon structures. Journal of Micromechanics and Microengineering, 2014, 24, 045008.	1.5	3
63	Electronic Screening-Enhanced Hole Pairing in Two-Leg Spin Ladders Studied by High-Resolution Resonant Inelastic X-Ray Scattering at CuMnEdges. Physical Review Letters, 2014, 113, 067001.	2.9	13
64	A review: mid-infrared photonic crystals in silicon and porous silicon based on ion beam irradiation. , 2014, , .		0
65	Nanoscale lithography of $\text{LaAlO}_3/\text{SrTiO}_3$ wires using silicon stencil masks. Nanotechnology, 2014, 25, 445301.	1.3	9
66	Reprogramming hMSCs morphology with silicon/porous silicon geometric micro-patterns. Biomedical Microdevices, 2014, 16, 229-236.	1.4	8
67	Buried centimeter-long micro- and nanochannel arrays in porous silicon and glass. Lab on A Chip, 2014, 14, 2081-2089.	3.1	14
68	Fabrication of silicon molds with multi-level, non-planar, micro- and nano-scale features. Nanotechnology, 2014, 25, 375301.	1.3	5
69	Performance Assessment and Beamline Diagnostics Based on Evaluation of Temporal Information from Infrared Spectral Datasets by Means of R Environment for Statistical Analysis. Analytical Chemistry, 2014, 86, 6918-6923.	3.2	0
70	Broadband Terahertz Sensing on Spoof Plasmon Surfaces. ACS Photonics, 2014, 1, 1059-1067.	3.2	92
71	Spectroscopic detection of exogenous materials in latent fingerprints treated with powders and lifted off with adhesive tapes. Analytical and Bioanalytical Chemistry, 2014, 406, 4173-4181.	1.9	16
72	Influence of Light Ion Irradiation on the Current-Voltage Characteristics of Electrochemical Anodization of p-Type Silicon. Journal of the Electrochemical Society, 2014, 161, E97-E103.	1.3	2

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73	Mechanisms of charge transfer and redistribution in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> revealed by high-energy optical conductivity. Nature Communications, 2014, 5, 3663.	5.8	70
74	Ion beam irradiation induced fabrication of vertical coupling photonic structures. , 2013, , .		0
75	A thousand-fold enhancement of photoluminescence in porous silicon using ion irradiation. Journal of Applied Physics, 2013, 114, 053517.	1.1	6
76	Silicon and porous silicon mid-infrared photonic crystals. Applied Physics A: Materials Science and Processing, 2013, 112, 517-523.	1.1	14
77	Spoof Plasmon Surfaces: A Novel Platform for THz Sensing. Advanced Optical Materials, 2013, 1, 543-548.	3.6	165
78	Defect enhanced funneling of diffusion current in silicon. Applied Physics Letters, 2013, 102, .	1.5	11
79	Tuning the Interface Conductivity of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Using Ion Beams: Implications for Patterning. ACS Nano, 2013, 7, 10572-10581.	7.3	34
80	Fabrication of silicon nanowires by ion beam irradiation. Materials Research Society Symposia Proceedings, 2013, 1512, 1.	0.1	0
81	Ion beam irradiation induced fabrication of vertical coupling waveguides. Applied Physics Letters, 2013, 102, .	1.5	8
82	From polarization-dependent to polarization-independent terahertz meta-foils. Applied Physics Letters, 2013, 103, 191114.	1.5	5
83	Free-standing terahertz chiral meta-foils exhibiting strong optical activity and negative refractive index. Applied Physics Letters, 2013, 103, .	1.5	33
84	Functional multi-band THz meta-foils. Scientific Reports, 2013, 3, 3531.	1.6	6
85	A fast-converging iterative method for X-ray in-line phase contrast tomography. Applied Physics Letters, 2012, 101, .	1.5	12
86	Origin of ringlike angular distributions observed in rainbow channeling in ultrathin crystals. Physical Review B, 2012, 86, .	1.1	23
87	Influence of the Narrow $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mo stretchy="false"} \rangle \{ \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 111 \langle \text{mml:mn} \rangle \langle \text{mml:mo stretchy="false"} \rangle \} \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ Planes on Axial and Planar Ion Channeling. Physical Review Letters, 2012, 108, 195502.	2.9	23
88	On the Formation of 50-nm Diameter Free-Standing Silicon Wires Produced by Ion Irradiation. ECS Journal of Solid State Science and Technology, 2012, 1, P66-P69.	0.9	14
89	Reversible ferromagnetism in rutile TiO <sub>2</sub> single crystals induced by nickel impurities. Applied Physics Letters, 2012, 101, .	1.5	20
90	Three-dimensional silicon micromachining. Journal of Micromechanics and Microengineering, 2012, 22, 113001.	1.5	24

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91	Investigation of defect luminescence from multicrystalline Si wafer solar cells using X-ray fluorescence and luminescence imaging. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 460-462.	1.2	2
92	Influence of target composition and deposition temperature on the domain structure of BiFeO <sub>3</sub> thin films. <i>AIP Advances</i> , 2012, 2, .	0.6	13
93	Cationic-vacancy-induced room-temperature ferromagnetism in transparent, conducting anatase Ti <sub>1-x</sub> Ta <sub>x</sub> O <sub>2</sub> (x ≈ 0.05) thin films. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4927-4943.	1.6	31
94	Detection of microscopic particles present as contaminants in latent fingerprints by means of synchrotron radiation-based Fourier transform infra-red micro-imaging. <i>Analyst, The</i> , 2012, 137, 3459.	1.7	27
95	Magnetism in MoS <sub>2</sub> induced by proton irradiation. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	205
96	Pulsed and high-speed FTIR spectroscopy. , 2012, , .		1
97	Fabrication of complex curved three-dimensional silicon microstructures using ion irradiation. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 015015.	1.5	37
98	Interface and Surface Cation Stoichiometry Modified by Oxygen Vacancies in Epitaxial Manganite Films. <i>Advanced Functional Materials</i> , 2012, 22, 4312-4321.	7.8	65
99	Fabrication of large-area ultra-thin single crystal silicon membranes. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	28
100	Mega-electron-volt proton irradiation on supported and suspended graphene: A Raman spectroscopic layer dependent study. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	56
101	Modification of Porous Silicon Formation by Varying the End of Range of Ion Irradiation. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, D45.	2.2	5
102	Novel types of silicon waveguides fabricated using proton beam irradiation. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
103	Fabrication of porous silicon channel waveguides with multilayer Bragg cladding. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
104	Effects of focused MeV ion beam irradiation on the roughness of electrochemically micromachined silicon surfaces. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 500-505.	0.6	5
105	Electrochemical Anodization of Silicon-on-Insulator Wafers Using an AC. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H271.	2.2	0
106	A silicon-based technology for the fabrication of smooth optical devices. , 2010, , .		0
107	An all-silicon, single-mode Bragg cladding rib waveguide. <i>Optics Express</i> , 2010, 18, 8816.	1.7	5
108	Fabrication of concave silicon micro-mirrors. <i>Optics Express</i> , 2010, 18, 14511.	1.7	29

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109	On the Dependence of the Surface Roughness of Electrochemically Anodized Silicon on Ion Irradiation Fluence. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H382.	2.2	5
110	Nanoscale Materials Defect Characterisation. <i>Particle Acceleration and Detection</i> , 2009, , 185-204.	0.3	0
111	Silicon photonic waveguides for mid- and long-wave infrared region. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 159-163.	1.1	23
112	The Nuclear Microprobe. <i>Nuclear Physics News</i> , 2009, 19, 33-37.	0.1	1
113	Fabrication of low-loss silicon-on-oxidized-porous-silicon strip waveguide using focused proton-beam irradiation. <i>Optics Letters</i> , 2009, 34, 659.	1.7	36
114	Effects of oxide formation around core circumference of silicon-on-oxidized-porous-silicon strip waveguides. <i>Optics Letters</i> , 2009, 34, 3142.	1.7	27
115	Electrically switchable computer-generated hologram using a liquid crystal cell with a proton beam patterned polymethylmethacrylate substrate. <i>Applied Optics</i> , 2009, 48, 3766.	2.1	1
116	Box 6: Nanoscale Defects. <i>Particle Acceleration and Detection</i> , 2009, , 205-210.	0.3	0
117	Silicon photonic waveguides for different wavelength regions. <i>Semiconductor Science and Technology</i> , 2008, 23, 064002.	1.0	28
118	Three-dimensional control of optical waveguide fabrication in silicon. <i>Optics Express</i> , 2008, 16, 573.	1.7	24
119	Fabrication of three dimensional porous silicon distributed Bragg reflectors. <i>Applied Physics Letters</i> , 2008, 93, 221905.	1.5	22
120	An all-silicon channel waveguide fabricated using direct proton beam writing. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
121	Silicon waveguides for the mid-infrared wavelength region. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
122	A large-area bent crystal shield for deflection of high-energy ions. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	2
123	Freestanding waveguides in silicon. <i>Applied Physics Letters</i> , 2007, 90, 241109.	1.5	40
124	Future prospects for silicon photonics. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
125	Porous silicon Bragg reflectors with sub-micrometer lateral dimensions. <i>Optics Express</i> , 2007, 15, 5537.	1.7	16
126	Enhanced beam deflection in bent crystals using multiple volume reflection. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 263, 395-400.	0.6	8



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127	A review of ion beam induced charge microscopy. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 345-360.	0.6	94
128	Hole transport through proton-irradiated p-type silicon wafers during electrochemical anodization. Physical Review B, 2006, 73, .	1.1	61
129	Micro-patterned porous silicon using proton beam writing. AIP Conference Proceedings, 2006, , .	0.3	4
130	Patterning light emitting porous silicon using helium beam irradiation. , 2006, , .		1
131	A study of oscillations in the angular distribution of volume reflected ions from bent crystals. Nuclear Instruments & Methods in Physics Research B, 2006, 252, 205-211.	0.6	4
132	Fabrication of patterned porous silicon using high-energy ion irradiation. Journal of Porous Materials, 2006, 13, 259-261.	1.3	1
133	Multicolor Photoluminescence from Porous Silicon Using Focused, High-Energy Helium Ions. Advanced Materials, 2006, 18, 51-55.	11.1	39
134	Controlled blueshift of the resonant wavelength in porous silicon microcavities using ion irradiation. Applied Physics Letters, 2006, 89, 021910.	1.5	32
135	Controlled Shift in Emission Wavelength from Patterned Porous Silicon Using Focused Ion Beam Irradiation. Journal of the Electrochemical Society, 2005, 152, D173.	1.3	10
136	Transmission ion channeling analysis of isolated 60° misfit dislocations. Applied Physics Letters, 2005, 87, 211907.	1.5	2
137	ION BEAM LITHOGRAPHY AND NANOFABRICATION: A REVIEW. International Journal of Nanoscience, 2005, 04, 269-286.	0.4	249
138	Fabrication of silicon microstructures using a high-energy ion beam. , 2004, , .		11
139	High quality ion-induced secondary electron imaging for MeV nuclear microprobe applications. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 560.	1.6	13
140	Observation of Many Coherent Oscillations for MeV Protons Transmitted through Stacking Faults. Physical Review Letters, 2004, 92, 045503.	2.9	13
141	Three-dimensional microfabrication in bulk silicon using high-energy protons. Applied Physics Letters, 2004, 84, 3202-3204.	1.5	79
142	Enhanced Planar Channeling of MeV Protons through Thin Crystals. Physical Review Letters, 2004, 93, 105505.	2.9	8
143	Controlled intensity emission from patterned porous silicon using focused proton beam irradiation. Applied Physics Letters, 2004, 85, 4370.	1.5	28
144	Focusing of MeV ion beams by means of tapered glass capillary optics. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1671-1674.	0.9	117

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145	A Study of the Decomposition of GaN during Annealing over a Wide Range of Temperatures. Materials Research Society Symposia Proceedings, 2002, 743, L11.28.1.	0.1	2
146	High-Efficiency Beam Extraction and Collimation Using Channeling in Very Short Bent Crystals. Physical Review Letters, 2001, 87, 094802.	2.9	129
147	Advances in the investigation of the extraction of a proton beam from the U-70 accelerator with the aid of bent single crystals. JETP Letters, 2001, 74, 55-58.	0.4	14
148	Study of the crystalline quality of exfoliated surfaces in hydrogen-implanted silicon. Applied Physics Letters, 2000, 77, 268-270.	1.5	10
149	Imaging of charge transport in polycrystalline diamond using ion-beam-induced charge microscopy. Applied Physics Letters, 2000, 77, 913-915.	1.5	34
150	Confirmation of proton beam bending in graded Si <sub>1-x</sub> Ge <sub>x</sub> /Si layers using ion channeling. Applied Physics Letters, 1999, 74, 227-229.	1.5	8
151	Equivalent Effects of a Lattice Translation and Rotation on Planar Channeled MeV Protons. Physical Review Letters, 1998, 81, 5157-5160.	2.9	9
152	Imaging of the strain field around precipitate particles using transmission ion channeling. Journal of Applied Physics, 1996, 80, 2671-2679.	1.1	6
153	Characterization of strain in crystal bilayers using ion-channeling patterns. Physical Review B, 1996, 54, 9693-9702.	1.1	9
154	The use of $\alpha$ -mixed $\alpha$ beams in microprobe imaging. Review of Scientific Instruments, 1996, 67, 2940-2946.	1.1	5
155	Observation of planar oscillations of MeV protons in silicon using ion channeling patterns. Physical Review B, 1996, 53, 8267-8276.	1.1	24
156	Ion beam induced charge microscopy for the analysis of integrated circuits. Advanced Materials, 1995, 7, 873-875.	11.1	0
157	Dechanneling of MeV protons by 60 $\text{\AA}$ dislocations. Physical Review B, 1995, 51, 2742-2750.	1.1	23
158	Stacking-fault imaging using transmission ion channeling. Physical Review B, 1995, 51, 2732-2741.	1.1	20
159	Optimization of ion beam induced charge microscopy for the analysis of integrated circuits. Journal of Applied Physics, 1995, 77, 3734-3741.	1.1	16
160	Manipulation of ion channeling patterns using magnetic quadrupole lenses. Applied Physics Letters, 1995, 67, 2132-2134.	1.5	5
161	Evidence from ion channeling images for the elastic relaxation of a Si <sub>0.85</sub> Ge <sub>0.15</sub> layer grown on a patterned Si substrate. Applied Physics Letters, 1995, 67, 3566-3568.	1.5	7
162	Observation of a Blocking to Channeling Transition for MeV Protons at Stacking Faults in Silicon. Physical Review Letters, 1995, 74, 411-414.	2.9	20

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163	High signal to noise level ion beam induced charge images. Applied Physics Letters, 1994, 64, 1962-1964.	1.5	12
164	Sensitivity of ion induced charge pulses to the electrical and crystallographic properties of 60Å° dislocations. Applied Physics Letters, 1994, 65, 3227-3229.	1.5	1
165	Dislocation imaging using ion beam induced charge. Applied Physics Letters, 1993, 62, 3309-3311.	1.5	16
166	A theory of ion beam induced charge collection. Journal of Applied Physics, 1993, 74, 3789-3799.	1.1	84
167	Dislocation imaging using transmission ion channeling. Journal of Applied Physics, 1993, 73, 2640-2653.	1.1	21
168	Determination of size and distribution of second phases using nuclear microscopy. Journal of Materials Research, 1992, 7, 2373-2378.	1.2	1
169	The Nuclear Microprobe. Annual Review of Nuclear and Particle Science, 1992, 42, 1-38.	3.5	36
170	Microcircuit imaging using an ion beam induced charge. Journal of Applied Physics, 1992, 72, 2097-2104.	1.1	63
171	The effect of parasitic sextupole fields on nuclear microprobe resolution. Nuclear Instruments & Methods in Physics Research B, 1991, 61, 343-347.	0.6	6
172	Joint nuclear microprobe and SIMS study of microcircuit metallization and passivation layers. Semiconductor Science and Technology, 1991, 6, 325-329.	1.0	1
173	Atomic position of Fe in YBa <sub>2</sub> (Cu <sub>1-x</sub> Fe <sub>x</sub> ) <sub>3</sub> O <sub>7-y</sub> using ion channeling. Physical Review B, 1991, 44, 6927-6931.	1.1	15