

Marc DeGraef

List of Publications by Year in descending order

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307
papers

7,168
citations

53794

45
h-index

85541

71
g-index

335
all docs

335
docs citations

335
times ranked

6200
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural characterization of InGaN films grown on sapphire by organometallic vapor phase epitaxy. Applied Physics Letters, 1995, 66, 1252-1254.	3.3	295
2	Superparamagnetism in carbon-coated Co particles produced by the Kratschmer carbon arc process. Physical Review B, 1994, 49, 11358-11363.	3.2	257
3	Materials Data Science: Current Status and Future Outlook. Annual Review of Materials Research, 2015, 45, 171-193.	9.3	198
4	Introduction and comparison of new EBSD post-processing methodologies. Ultramicroscopy, 2015, 159, 81-94.	1.9	149
5	A new symmetrized solution for phase retrieval using the transport of intensity equation. Micron, 2002, 33, 411-416.	2.2	139
6	Diffraction contrast STEM of dislocations: Imaging and simulations. Ultramicroscopy, 2011, 111, 1483-1487.	1.9	136
7	A Dictionary Approach to Electron Backscatter Diffraction Indexing. Microscopy and Microanalysis, 2015, 21, 739-752.	0.4	131
8	Demagnetization factors for elliptic cylinders. Journal Physics D: Applied Physics, 2005, 38, 3333-3342.	2.8	128
9	Dynamical Electron Backscatter Diffraction Patterns. Part I: Pattern Simulations. Microscopy and Microanalysis, 2013, 19, 1255-1265.	0.4	115
10	On the magnetostatic interactions between nanoparticles of arbitrary shape. Journal of Magnetism and Magnetic Materials, 2004, 278, 270-284.	2.3	112
11	The equivalent ellipsoid of a magnetized body. Journal Physics D: Applied Physics, 2006, 39, 891-899.	2.8	97
12	Nanoscale structure of the magnetic induction at monopole defects in artificial spin-ice lattices. Physical Review B, 2011, 83, .	3.2	96
13	Atomic-resolution defect contrast in low angle annular dark-field STEM. Ultramicroscopy, 2012, 116, 47-55.	1.9	93
14	Growth and characterization of (111) and (001) oriented MgO films on (001) GaAs. Journal of Applied Physics, 1993, 73, 3276-3283.	2.5	92
15	The Three-Dimensional Morphology of Growing Dendrites. Scientific Reports, 2015, 5, 11824.	3.3	92
16	A modern 3-D view of an "old" pearlite colony. Jom, 2006, 58, 25-28.	1.9	86
17	Three-Dimensional Study of the Vector Potential of Magnetic Structures. Physical Review Letters, 2010, 104, 253901.	7.8	84
18	TIMBIR: A Method for Time-Space Reconstruction From Interlaced Views. IEEE Transactions on Computational Imaging, 2015, 1, 96-111.	4.4	80

#	ARTICLE	IF	CITATIONS
19	Nanoscale Skyrmions in a Nonchiral Metallic Multiferroic: Ni ₂ MnGa. Nano Letters, 2016, 16, 4141-4148.	9.1	79
20	On the computation of the demagnetization tensor for uniformly magnetized particles of arbitrary shape. Part I: Analytical approach. Journal of Magnetism and Magnetic Materials, 2004, 271, 9-26.	2.3	78
21	Magnetic properties of carbon-coated, ferromagnetic nanoparticles produced by a carbon arc method. Journal of Applied Physics, 1994, 75, 5882-5884.	2.5	77
22	The evolution of metastable borides in a Ti-Al-B alloy. Acta Metallurgica Et Materialia, 1992, 40, 3395-3406.	1.8	76
23	Anti-phase boundaries and magnetic domain structures in Ni ₂ MnGa-type Heusler alloys. Acta Materialia, 2007, 55, 2621-2636.	7.9	74
24	On the use of 2-D moment invariants for the automated classification of particle shapes. Acta Materialia, 2008, 56, 427-437.	7.9	72
25	Effect of Field Strength on MR Images: Comparison of the Same Subject at 0.5, 1.0, and 1.5 T. Radiographics, 1999, 19, 1057-1067.	3.3	70
26	Three-dimensional analysis of secondary γ_2 precipitates in Ren-88 DT and UMF-20 superalloys. Acta Materialia, 2009, 57, 6251-6267.	7.9	68
27	On the computation of the demagnetization tensor field for an arbitrary particle shape using a Fourier space approach. Journal of Magnetism and Magnetic Materials, 2003, 263, L1-L9.	2.3	66
28	A spherical harmonic transform approach to the indexing of electron back-scattered diffraction patterns. Ultramicroscopy, 2019, 207, 112841.	1.9	66
29	Systematic row and zone axis STEM defect image simulations. Philosophical Magazine, 2011, 91, 2081-2101.	1.6	63
30	Nucleation of threading dislocations in sublimation grown silicon carbide. Journal of Applied Physics, 2002, 91, 1143-1148.	2.5	61
31	A Model Based Iterative Reconstruction Algorithm For High Angle Annular Dark Field-Scanning Transmission Electron Microscope (HAADF-STEM) Tomography. IEEE Transactions on Image Processing, 2013, 22, 4532-4544.	9.8	61
32	Vector field electron tomography of magnetic materials: Theoretical development. Ultramicroscopy, 2008, 108, 503-513.	1.9	59
33	Consistent representations of and conversions between 3D rotations. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 083501.	2.0	59
34	Error analysis of the crystal orientations obtained by the dictionary approach to EBSD indexing. Ultramicroscopy, 2017, 181, 17-26.	1.9	59
35	Quantitative noninterferometric Lorentz microscopy. Journal of Applied Physics, 2001, 89, 7177-7179.	2.5	57
36	Nucleation of misfit and threading dislocations during epitaxial growth of GaSb on GaAs(001) substrates. Journal of Applied Physics, 1997, 81, 7268-7272.	2.5	56

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37	Rapid misfit dislocation characterization in heteroepitaxial III-V/Si thin films by electron channeling contrast imaging. Applied Physics Letters, 2014, 104, .	3.3	55
38	Recent advances in Lorentz microscopy. Current Opinion in Solid State and Materials Science, 2016, 20, 107-114.	11.5	53
39	In-situ Lorentz TEM cooling study of magnetic domain configurations in Ni/sub 2/MnGa. IEEE Transactions on Magnetics, 2001, 37, 2663-2665.	2.1	52
40	High resolution low kV EBSD of heavily deformed and nanocrystalline Aluminium by dictionary-based indexing. Scientific Reports, 2018, 8, 10991.	3.3	51
41	Magnetic domain wall skyrmions. Physical Review B, 2019, 99, .	3.2	51
42	Temperature-mediated phase selection during growth of GaN on (111)A and (1 $\bar{1}$,1 $\bar{1}$,1 $\bar{1}$)B GaAs substrates. Applied Physics Letters, 1995, 67, 3759-3761.	3.3	50
43	General magnetostatic shape-shape interactions. Journal of Magnetism and Magnetic Materials, 2005, 285, L1-L10.	2.3	49
44	Application and further development of advanced image processing algorithms for automated analysis of serial section image data. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 025002.	2.0	48
45	Origin of Magnetic and Magnetoelastic Tweedlike Precursor Modulations in Ferroic Materials. Physical Review Letters, 2004, 92, 197203.	7.8	46
46	Quantification of rafting of γ' precipitates in Ni-based superalloys. Acta Materialia, 2016, 103, 322-333.	7.9	46
47	Extracting Grain Orientations from EBSD Patterns of Polycrystalline Materials Using Convolutional Neural Networks. Microscopy and Microanalysis, 2018, 24, 497-502.	0.4	46
48	Phase diagram for magnetic nano-rings. Journal of Magnetism and Magnetic Materials, 2006, 301, 131-146.	2.3	45
49	A new method of constructing a grid in the space of 3D rotations and its applications to texture analysis. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 075013.	2.0	44
50	Origin of domain structure in hexagonal silicon carbide boules grown by the physical vapor transport method. Journal of Crystal Growth, 2000, 220, 308-315.	1.5	43
51	Demagnetization factors of the general ellipsoid: An alternative to the Maxwell approach. Philosophical Magazine, 2006, 86, 2451-2466.	1.6	43
52	Characterization and modeling of defects generated in pseudoelastically deformed NiTi microcrystals. Scripta Materialia, 2014, 78-79, 69-72.	5.2	43
53	Demagnetization factors for cylindrical shells and related shapes. Journal of Magnetism and Magnetic Materials, 2009, 321, 1306-1315.	2.3	42
54	Dictionary Indexing of Electron Channeling Patterns. Microscopy and Microanalysis, 2017, 23, 1-10.	0.4	42

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55	Transmission scanning electron microscopy: Defect observations and image simulations. <i>Ultramicroscopy</i> , 2018, 186, 49-61.	1.9	42
56	Interfaces between alumina and platinum: Structure, bonding and fracture resistance. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, S333-S344.	1.8	41
57	A method for measuring microstructural-scale strains using a scanning electron microscope: Applications to I^3 -titanium aluminides. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 2301-2313.	2.2	41
58	Introduction to Conventional Transmission Electron Microscopy. <i>Materials Today</i> , 2003, 6, 57.	14.2	40
59	Orientation sampling for dictionary-based diffraction pattern indexing methods. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 085013.	2.0	40
60	2. Lorentz microscopy: Theoretical basis and image simulations. <i>Experimental Methods in the Physical Sciences</i> , 2001, 36, 27-67.	0.1	39
61	Role of Grain Boundary Defects During Grain Coarsening of Lamellar Block Copolymers. <i>Macromolecules</i> , 2013, 46, 204-215.	4.8	39
62	Theory of dynamical electron channeling contrast images of near-surface crystal defects. <i>Ultramicroscopy</i> , 2014, 146, 71-78.	1.9	38
63	Magnetic domain memory in multiferroic Ni_2MnGa . <i>Acta Materialia</i> , 2007, 55, 5419-5427.	7.9	37
64	Model-Based Iterative Reconstruction for Bright-Field Electron Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2015, 1, 1-15.	4.4	37
65	Austenite grain refinement during load-biased thermal cycling of a $\text{Ni}_{49.9}\text{Ti}_{50.1}$ shape memory alloy. <i>Acta Materialia</i> , 2015, 91, 318-329.	7.9	37
66	Application of joint histogram and mutual information to registration and data fusion problems in serial sectioning microstructure studies. <i>Scripta Materialia</i> , 2009, 60, 381-384.	5.2	36
67	Microstructural tomography of a superalloy using focused ion beam microscopy. <i>Ultramicroscopy</i> , 2009, 109, 1229-1235.	1.9	36
68	Indexing of electron back-scatter diffraction patterns using a convolutional neural network. <i>Acta Materialia</i> , 2020, 199, 370-382.	7.9	36
69	On the use of moment invariants for the automated analysis of 3D particle shapes. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2008, 16, 045008.	2.0	36
70	In situ lorentz TEM magnetization study of a Ni-Mn-Ga ferromagnetic shape memory alloy. <i>Acta Materialia</i> , 2011, 59, 4895-4906.	7.9	35
71	Applications of Electron Channeling Contrast Imaging for the Rapid Characterization of Extended Defects in III-V/Si Heterostructures. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 676-682.	2.5	35
72	EMsoft: open source software for electron diffraction/image simulations. <i>Microscopy and Microanalysis</i> , 2017, 23, 212-213.	0.4	34

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73	On the computation of the demagnetization tensor for uniformly magnetized particles of arbitrary shape. Part II: numerical approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 271, 27-38.	2.3	33
74	Dictionary Indexing of Electron Back-Scatter Diffraction Patterns: a Hands-On Tutorial. <i>Integrating Materials and Manufacturing Innovation</i> , 2019, 8, 226-246.	2.6	33
75	Discrimination of dynamically and post-dynamically recrystallized grains based on EBSD data: application to Inconel 718. <i>Journal of Microscopy</i> , 2019, 273, 135-147.	1.8	33
76	Demonstrating the potential of accurate absolute cross-grain stress and orientation correlation using electron backscatter diffraction. <i>Scripta Materialia</i> , 2019, 162, 266-271.	5.2	32
77	Quantitative electron backscatter diffraction (EBSD) data analyses using the dictionary indexing (DI) approach: Overcoming indexing difficulties on geological materials. <i>American Mineralogist</i> , 2017, 102, 1843-1855.	1.9	30
78	The effect of field cooling and field orientation on the martensitic phase transformation in a Ni ₂ MnGa single crystal. <i>Journal of Applied Physics</i> , 2000, 87, 5777-5779.	2.5	29
79	Determination of magnetic vortex polarity from a single Lorentz Fresnel image. <i>Ultramicroscopy</i> , 2009, 109, 264-267.	1.9	29
80	Metastable extension of the fluorite phase field in Y ₂ O ₃ -ZrO ₂ and its effect on grain growth. <i>Acta Metallurgica Et Materialia</i> , 1994, 42, 1829-1846.	1.8	28
81	Mesoscale characterization of local property distributions in heterogeneous electrodes. <i>Journal of Power Sources</i> , 2018, 386, 1-9.	7.8	28
82	The structure of complex monoborides in $\hat{1}$ ³ -TiAl alloys with Ta and B additions. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 2381-2391.	1.8	26
83	Hierarchical domain structures and in situ domain migration in the antiferroelectric ceramic PLSnZT. <i>Journal of Applied Physics</i> , 1993, 73, 7261-7267.	2.5	26
84	Identification of prismatic slip bands in 4H SiC boules grown by physical vapor transport. <i>Journal of Electronic Materials</i> , 2000, 29, L5-L8.	2.2	26
85	In situ Lorentz TEM magnetization studies on a Fe-Pd-Co martensitic alloy. <i>Acta Materialia</i> , 2011, 59, 6646-6657.	7.9	26
86	Phase contrast of spherical magnetic particles. <i>Journal of Microscopy</i> , 1999, 194, 84.	1.8	25
87	Effect of annealing on magnetic exchange coupling in CoPt/Co bilayer thin films. <i>Journal of Applied Physics</i> , 2000, 87, 6140-6142.	2.5	25
88	High signals in the uterine cervix on T2-weighted MRI sequences. <i>European Radiology</i> , 2003, 13, 118-126.	4.5	25
89	Future Prospects for Defect and Strain Analysis in the SEM via Electron Channeling. <i>Microscopy Today</i> , 2012, 20, 12-16.	0.3	25
90	Competitive Growth of Scrutinyite ($\hat{1}$ [±] -PbO ₂) and Rutile Polymorphs of SnO ₂ on All Orientations of Columbite CoNb ₂ O ₆ Substrates. <i>Crystal Growth and Design</i> , 2017, 17, 3929-3939.	3.0	25

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91	On the magnetostatics of chains of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2912-2922.	2.3	23
92	Performance of Dynamically Simulated Reference Patterns for Cross-Correlation Electron Backscatter Diffraction. <i>Microscopy and Microanalysis</i> , 2016, 22, 789-802.	0.4	23
93	Phase differentiation by electron backscatter diffraction using the dictionary indexing approach. <i>Acta Materialia</i> , 2018, 144, 352-364.	7.9	23
94	Electron-optical phase shift of magnetic nanoparticles II. Polyhedral particles. <i>Philosophical Magazine</i> , 2003, 83, 1143-1161.	1.6	22
95	Magnetic interactions and reversal of artificial square spin ices. <i>New Journal of Physics</i> , 2012, 14, 075028.	2.9	22
96	Energy filtered Lorentz microscopy. <i>Ultramicroscopy</i> , 1997, 67, 113-131.	1.9	21
97	Gorsky-Bragg-Williams approach to the study of long-period superlattice phases in binary alloys. <i>Physical Review B</i> , 1989, 39, 381-385.	3.2	20
98	3D Materials Image Segmentation by 2D Propagation: A Graph-Cut Approach Considering Homomorphism. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 5282-5293.	9.8	20
99	Electron backscattered diffraction using a new monolithic direct detector: High resolution and fast acquisition. <i>Ultramicroscopy</i> , 2021, 220, 113160.	1.9	20
100	SIMCON: a versatile software package for the simulation of electron diffraction contrast images of arbitrary displacement fields. <i>Ultramicroscopy</i> , 1992, 45, 323-335.	1.9	19
101	Heteroepitaxy of rare-earth hexa-aluminates on sapphire. <i>Journal of Materials Research</i> , 1994, 9, 410-419.	2.6	19
102	A quantitative description of the morphological aspects of materials structures suitable for quantitative comparisons of 3D microstructures. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 015003.	2.0	19
103	Separation of electrostatic and magnetic phase shifts using a modified transport-of-intensity equation. <i>Ultramicroscopy</i> , 2014, 139, 5-12.	1.9	19
104	Application of forward models to crystal orientation refinement. <i>Journal of Applied Crystallography</i> , 2017, 50, 1664-1676.	4.5	19
105	Influence of Noise-Generating Factors on Cross-Correlation Electron Backscatter Diffraction (EBSD) Measurement of Geometrically Necessary Dislocations (GNDs). <i>Microscopy and Microanalysis</i> , 2017, 23, 460-471.	0.4	18
106	High resolution electron microscopic study of the X-phase in Cu_{1-x}Al and $\text{Cu}_{1-x}\text{Al}_{1-x}\text{Zn}$ alloys. <i>Physica Status Solidi A</i> , 1988, 107, 597-609.	1.7	17
107	Influence of microstructure and strain distribution on failure properties in intermetallic TiAl-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 319-321, 613-617.	5.6	17
108	Use of weibull statistics to quantify property variability in TiAl alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002, 33, 3127-3136.	2.2	17

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109	Materials discovery: Understanding polycrystals from large-scale electron patterns. , 2016, , .		17
110	Antiphase boundaries, magnetic domains, and magnetic vortices in Ni-Mn-Ga single crystals. Acta Materialia, 2020, 184, 179-186.	7.9	17
111	A simple method for measuring surface strains around cracks. Experimental Mechanics, 1996, 36, 173-179.	2.0	16
112	Growth accidents induced by primary γ precipitates in a polycrystalline nickel-based superalloy. Scripta Materialia, 2020, 186, 109-113.	5.2	16
113	Markov Random Field based microstructure reconstruction using the principal image moments. Materials Characterization, 2021, 178, 111281.	4.4	16
114	Multimodal 3D characterization of voids in shock-loaded tantalum: Implications for ductile spallation mechanisms. Acta Materialia, 2021, 215, 117057.	7.9	16
115	Interventional radiology in female infertility: technique and role. European Radiology, 2001, 11, 771-778.	4.5	15
116	Structural and magnetic phase transitions in Ni-Mn-Ga ferromagnetic shape-memory crystals. IEEE Transactions on Magnetics, 2001, 37, 2666-2668.	2.1	15
117	Lorentz study of magnetic domains in Heusler-type ferromagnetic shape memory alloys. European Physical Journal Special Topics, 2003, 112, 993-996.	0.2	15
118	The fluxgate ring-core demagnetization field. Journal of Magnetism and Magnetic Materials, 2006, 305, 403-409.	2.3	15
119	Bayesian methods for image segmentation. Jom, 2011, 63, 55-57.	1.9	15
120	Microstructures and transformation behavior of CoNiGa ferromagnetic shape memory alloys. European Physical Journal Special Topics, 2003, 112, 1021-1024.	0.2	15
121	Lorentz TEM investigation of chiral spin textures and Néel Skyrmions in asymmetric multi-layer thin films. Physical Review Materials, 2019, 3, .	2.1	15
122	The stabilization of step-quenched copper-zinc-aluminium martensite. Part IV: Changes in the microstructure. Scripta Metallurgica, 1985, 19, 643-646.	1.2	14
123	Origin of Threading Dislocation Arrays in SiC Boules Grown by PVT. Materials Science Forum, 2000, 338-342, 477-480.	0.3	14
124	General magnetostatic shape-shape interaction forces and torques. Journal of Magnetism and Magnetic Materials, 2009, 321, L45-L51.	2.3	14
125	Model based iterative reconstruction for Bright Field electron tomography. Proceedings of SPIE, 2013, , .	0.8	14
126	A Method for Quantitative 3D Mesoscale Analysis of Solid Oxide Fuel Cell Microstructures Using Xe-plasma Focused Ion Beam (PFIB) Coupled with SEM. ECS Transactions, 2017, 78, 2159-2170.	0.5	14

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127	EBSD pattern simulations for an interaction volume containing lattice defects. Ultramicroscopy, 2020, 218, 113088.	1.9	14
128	The long-period antiphase-boundary-modulated structures in $\text{Cu}_{3+x}\text{Al}_{1-x}$. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 59, 979-998.	0.6	13
129	Magnetostatics of the uniformly polarized torus. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3581-3604.	2.1	13
130	Low angle ADF STEM defect imaging. Microscopy and Microanalysis, 2012, 18, 676-677.	0.4	13
131	Parameter Estimation in Spherical Symmetry Groups. IEEE Signal Processing Letters, 2015, 22, 1152-1155.	3.6	13
132	Towards a quantitative comparison between experimental and synthetic grain structures. Acta Materialia, 2016, 111, 242-252.	7.9	13
133	Mapping 180° polar domains using electron backscatter diffraction and dynamical scattering simulations. Ultramicroscopy, 2017, 173, 47-51.	1.9	13
134	Structure and magnetic properties of quenched $(\text{Mn}_x\text{Al}_{1-x})_3\text{O}_4$ spinels and Hausmannites. IEEE Transactions on Magnetics, 1995, 31, 4154-4156.	2.1	12
135	Understanding magnetic structures in permanent magnets via in situ Lorentz microscopy, interferometric and non-interferometric phase-reconstructions. Journal of Electron Microscopy, 2001, 50, 447-455.	0.9	12
136	3D reconstruction of the magnetic vector potential using model based iterative reconstruction. Ultramicroscopy, 2017, 182, 131-144.	1.9	12
137	Energy dependence of the spatial distribution of inelastically scattered electrons in backscatter electron diffraction. Physical Review B, 2018, 97, .	3.2	12
138	A geodesic octonion metric for grain boundaries. Acta Materialia, 2019, 166, 135-147.	7.9	12
139	A dictionary indexing approach for EBSD. IOP Conference Series: Materials Science and Engineering, 2020, 891, 012009.	0.6	12
140	Phase discrimination between $\hat{\Gamma}$ and \hat{I} phases in the new nickel-based superalloy VDM Alloy 780 using EBSD. Materials Characterization, 2021, 176, 111105.	4.4	12
141	Magnetic domain observations in a FeCo-based nanocrystalline alloy by Lorentz microscopy. Journal of Applied Physics, 2007, 101, 09N115.	2.5	11
142	Forces between a permanent magnet and a soft magnetic plate. IEEE Magnetics Letters, 2012, 3, .	1.1	11
143	Energy-weighted dynamical scattering simulations of electron diffraction modalities in the scanning electron microscope. Ultramicroscopy, 2018, 187, 98-106.	1.9	11
144	Phase contrast of spherical magnetic particles. Journal of Microscopy, 1999, 194, 84-94.	1.8	10

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145	Grain-scale strain mapping for analysis of slip activity in polycrystalline B2 RuAl. Philosophical Magazine, 2006, 86, 3995-4008.	1.6	10
146	Development of Bayesian Segmentation Techniques for Automated Segmentation of Titanium Alloy Images. Microscopy and Microanalysis, 2008, 14, 602-603.	0.4	10
147	h5ebds: an archival data format for electron back-scatter diffraction data sets. Integrating Materials and Manufacturing Innovation, 2014, 3, 44-55.	2.6	10
148	Nondestructive evaluation of 3D microstructure evolution in strontium titanate. Journal of Applied Crystallography, 2020, 53, 349-359.	4.5	10
149	Spherical indexing of overlap EBSD patterns for orientation-related phases – Application to titanium. Acta Materialia, 2020, 188, 579-590.	7.9	10
150	Lorentz microscopy observations of a nanocrystalline Fe ₄₄ /Co ₄₄ /Zr ₇ /B ₄ /Cu ₁ alloy. IEEE Transactions on Magnetics, 2001, 37, 2343-2346.	2.1	9
151	On the computation of the magnetic phase shift for magnetic nano-particles of arbitrary shape using a spherical projection model. Ultramicroscopy, 2013, 129, 36-41.	1.9	9
152	Formation of zero-field skyrmion arrays in asymmetric superlattices. Applied Physics Letters, 2020, 117, .	3.3	9
153	Prediction of potential pseudo-symmetry issues in the indexing of electron backscatter diffraction patterns. Journal of Applied Crystallography, 2019, 52, 1157-1168.	4.5	9
154	Electron microscopic study of the system NiO–TiO ₂ . Journal of Solid State Chemistry, 1985, 58, 357-367.	2.9	8
155	Magnetic properties of carbon-coated Sm-Co-C and Mn-Al-C alloy nanoparticles. Scripta Metallurgica Et Materialia, 1995, 33, 1703-1708.	1.0	8
156	Induction mapping of magnetostrictive materials. Journal of Applied Physics, 1998, 83, 6837-6839.	2.5	8
157	On the effect of hydrogen on the microstructure of $\text{Ti}_{2-3}\text{Al} + \text{Nb}$ alloys. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 1399-1421.	0.6	8
158	On the computation of the demagnetization tensor for particles of arbitrary shape. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1197-E1199.	2.3	8
159	MXA: a customizable HDF5-based data format for multi-dimensional data sets. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 065008.	2.0	8
160	Quantifying the abnormal strain state in ferroelastic materials: A moment invariant approach. Acta Materialia, 2015, 94, 172-180.	7.9	8
161	Influence of antiphase and ferroelastic domain boundaries on ferromagnetic domain wall width in multiferroic Ni-Mn-Ga compound. Applied Physics Letters, 2019, 115, .	3.3	8
162	On the use of 2D moment invariants in the classification of additive manufacturing powder feedstock. Materials Characterization, 2019, 149, 255-263.	4.4	8

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163	Structure models for $\text{I}^2\text{-MnGa}_2\text{S}_4$ as derived from electron diffraction and high-resolution electron microscopy. <i>Journal of Solid State Chemistry</i> , 1984, 55, 133-149.	2.9	7
164	Strain contrast at crack tips for in-situ transmission electron microscopy straining experiments. <i>Ultramicroscopy</i> , 1993, 49, 354-365.	1.9	7
165	Measurement of residual stress in MgO thin films on GaAs by electron microscopy. <i>Applied Physics Letters</i> , 1993, 63, 1044-1046.	3.3	7
166	A new phase in hydrogen-charged $\text{Ti}_{1-48}\text{Al}_{1-2}\text{Cr}_{1-2}\text{Nb}$. <i>Scripta Metallurgica Et Materialia</i> , 1995, 32, 1009-1014.	1.0	7
167	Energy filtered magnetic induction mapping. <i>Micron</i> , 1997, 28, 371-380.	2.2	7
168	Characterization of encapsulated quantum dots via electron channeling contrast imaging. <i>Applied Physics Letters</i> , 2016, 109, 062101.	3.3	7
169	Modeling dynamical electron scattering with Bethe potentials and the scattering matrix. <i>Ultramicroscopy</i> , 2016, 160, 35-43.	1.9	7
170	Correlation of c-Axis Orientation of α -Titanium Grains with Polarized Light Optical Microscopy Intensity Profiles. <i>Microscopy and Microanalysis</i> , 2018, 24, 548-549.	0.4	7
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