

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	Orientation, pattern center refinement and deformation state extraction through global optimization algorithms. Ultramicroscopy, 2022, 233, 113407.	1.9	6
2	Electron backscattered diffraction using a new monolithic direct detector: High resolution and fast acquisition. Ultramicroscopy, 2021, 220, 113160.	1.9	20
3	Crack propagation in AA3xxx during deep drawing investigated using a combined TKD/dictionary indexing approach. Journal of Materials Research, 2021, 36, 2754-2762.	2.6	3
4	Quantitative analysis of compatible microstructure by electron backscatter diffraction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200112.	3.4	2
5	Phase discrimination between $\hat{\Gamma}$ and $\hat{\Gamma}'$ phases in the new nickel-based superalloy VDM Alloy 780 using EBSD. Materials Characterization, 2021, 176, 111105.	4.4	12
6	Epitaxial Phase Stability of SrMnO ₃ Films on Polycrystalline Perovskite Substrates. Crystal Growth and Design, 2021, 21, 4547-4555.	3.0	2
7	Dynamic Symmetry Breaking in Chiral Magnetic Systems. Advanced Materials, 2021, 33, e2101524.	21.0	6
8	Markov Random Field based microstructure reconstruction using the principal image moments. Materials Characterization, 2021, 178, 111281.	4.4	16
9	Direct observation of topological charge impacting skyrmion bubble stability in Pt/Ni/Co asymmetric superlattices. APL Materials, 2021, 9, 081114.	5.1	0
10	Multimodal 3D characterization of voids in shock-loaded tantalum: Implications for ductile spallation mechanisms. Acta Materialia, 2021, 215, 117057.	7.9	16
11	Magnetic domain wall substructures in Pt/Co/Ni/Ir multi-layers. Journal of Applied Physics, 2021, 130, .	2.5	5
12	Towards large scale orientation mapping using the eCHORD method. Ultramicroscopy, 2020, 208, 112854.	1.9	4
13	Combinatorial substrate epitaxy investigation of polytypic growth of $\text{Ca}_{1-x}\text{Sr}_x\text{MnO}_3$ (Ca , Sr). Journal of the American Ceramic Society, 2020, 103, 2225-2234.	3.8	4
14	Antiphase boundaries, magnetic domains, and magnetic vortices in NiMnGa single crystals. Acta Materialia, 2020, 184, 179-186.	7.9	17
15	Scanning transmission electron microscopy image simulations of complex dislocation structures generated by discrete dislocation dynamics. Ultramicroscopy, 2020, 219, 113124.	1.9	2
16	Limitations of the macrospin approximation of materials with inhomogeneous perpendicular anisotropy. Journal of Applied Physics, 2020, 128, 073910.	2.5	4
17	Indexing of electron back-scatter diffraction patterns using a convolutional neural network. Acta Materialia, 2020, 199, 370-382.	7.9	36
18	Formation of zero-field skyrmion arrays in asymmetric superlattices. Applied Physics Letters, 2020, 117, .	3.3	9

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19	EBSD pattern simulations for an interaction volume containing lattice defects. Ultramicroscopy, 2020, 218, 113088.	1.9	14
20	A dictionary indexing approach for EBSD. IOP Conference Series: Materials Science and Engineering, 2020, 891, 012009.	0.6	12
21	Influence of step structure on preferred orientation relationships of Ag deposited on Ni(111). Acta Materialia, 2020, 200, 287-296.	7.9	1
22	Growth accidents induced by primary γ precipitates in a polycrystalline nickel-based superalloy. Scripta Materialia, 2020, 186, 109-113.	5.2	16
23	Learning the grain boundary manifold: tools for visualizing and fitting grain boundary properties. Acta Materialia, 2020, 195, 209-218.	7.9	7
24	Nondestructive evaluation of 3D microstructure evolution in strontium titanate. Journal of Applied Crystallography, 2020, 53, 349-359.	4.5	10
25	Stabilization of coupled Dzyaloshinskii domain walls in fully compensated synthetic anti-ferromagnets. AIP Advances, 2020, 10, .	1.3	3
26	Spherical indexing of overlap EBSD patterns for orientation-related phases – Application to titanium. Acta Materialia, 2020, 188, 579-590.	7.9	10
27	Higher-order perpendicular magnetic anisotropy and interfacial damping of Co/Ni multilayers. Physical Review B, 2020, 102, .	3.2	7
28	Dictionary-Based Indexing of Large-Scale Electron Backscatter Diffraction Datasets. , 2020, , 471-500.		0
29	Optimizing Reflector Selection for Indexing of EBSD Patterns via Dynamic Pattern Simulation. Microscopy and Microanalysis, 2019, 25, 206-207.	0.4	1
30	Application of Forward Modelling and Dictionary Indexing to EBSD Orientation Data as a Means of Quantifying Dislocation Substructure Formation in FCC Metals. Microscopy and Microanalysis, 2019, 25, 208-209.	0.4	0
31	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
32	Simulating Thermal Noise for S/TEM Images from Atom Coordinate Data. Microscopy and Microanalysis, 2019, 25, 210-211.	0.4	0
33	Lorentz TEM Imaging of Topological Magnetic Features in Asymmetric [Pt/(Co/Ni)M/Ir]N based Multi-Layers. Microscopy and Microanalysis, 2019, 25, 24-25.	0.4	0
34	Two beam toy model for dislocation contrast in ECCL. Microscopy and Microanalysis, 2019, 25, 1968-1969.	0.4	0
35	A spherical harmonic transform approach to the indexing of electron back-scattered diffraction patterns. Ultramicroscopy, 2019, 207, 112841.	1.9	66
36	Dictionary Indexing of Electron Back-Scatter Diffraction Patterns: a Hands-On Tutorial. Integrating Materials and Manufacturing Innovation, 2019, 8, 226-246.	2.6	33

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37	Magnetic domain wall skyrmions. <i>Physical Review B</i> , 2019, 99, .	3.2	51
38	Many-beam dynamical scattering simulations for scanning and transmission electron microscopy modalities for 2D and 3D quasicrystals. <i>Philosophical Magazine</i> , 2019, 99, 1732-1750.	1.6	4
39	Unambiguous Determination of Local Orientations of Polycrystalline CuInSe ₂ Thin Films via Dictionary-Based Indexing. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900032.	2.4	5
40	Reflector Selection for the Indexing of Electron Backscatter Diffraction Patterns. <i>Microscopy and Microanalysis</i> , 2019, 25, 675-681.	0.4	3
41	On the use of 2D moment invariants in the classification of additive manufacturing powder feedstock. <i>Materials Characterization</i> , 2019, 149, 255-263.	4.4	8
42	Lorentz TEM study of the magnetic microstructure in near-eutectoid Co-Pt alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 204-211.	2.3	4
43	A geodesic octonion metric for grain boundaries. <i>Acta Materialia</i> , 2019, 166, 135-147.	7.9	12
44	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
45	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
46	Simultaneous Control of Interlayer Exchange Coupling and the Interfacial Dzyaloshinskii-Moriya Interaction in Ru-Based Synthetic Antiferromagnets. <i>IEEE Magnetics Letters</i> , 2019, 10, 1-4.	1.1	7
47	Lorentz TEM investigation of chiral spin textures and Néel Skyrmions in asymmetric multi-layer thin films. <i>Physical Review Materials</i> , 2019, 3, .	2.4	15
48	Prediction of potential pseudo-symmetry issues in the indexing of electron backscatter diffraction patterns. <i>Journal of Applied Crystallography</i> , 2019, 52, 1157-1168.	4.5	9
49	Energy dependence of the spatial distribution of inelastically scattered electrons in backscatter electron diffraction. <i>Physical Review B</i> , 2018, 97, .	3.2	12
50	Energy-weighted dynamical scattering simulations of electron diffraction modalities in the scanning electron microscope. <i>Ultramicroscopy</i> , 2018, 187, 98-106.	1.9	11
51	Mesoscale characterization of local property distributions in heterogeneous electrodes. <i>Journal of Power Sources</i> , 2018, 386, 1-9.	7.8	28
52	Dynamical scattering image simulations for two-phase λ^2 microstructures: A theoretical model. <i>Ultramicroscopy</i> , 2018, 185, 32-41.	1.9	2
53	Transmission scanning electron microscopy: Defect observations and image simulations. <i>Ultramicroscopy</i> , 2018, 186, 49-61.	1.9	42
54	Phase differentiation by electron backscatter diffraction using the dictionary indexing approach. <i>Acta Materialia</i> , 2018, 144, 352-364.	7.9	23

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55	Characterizing Dzyaloshinskii Domain Walls in Asymmetric [Pt/Co/Ni/Ir] _N Multi-Layers using Lorentz TEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 948-949.	0.4	0
56	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
57	A Simple Method to Estimate Local Absolute Thickness Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 580-581.	0.4	0
58	Dynamical Diffraction S/TEM Simulations from Molecular Dynamics Data. <i>Microscopy and Microanalysis</i> , 2018, 24, 208-209.	0.4	1
59	Defect Characterization using Transmission Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1836-1837.	0.4	1
60	Custom Scan Control and Time Resolved Signal Acquisition for High Resolution SEM Imaging. <i>Microscopy and Microanalysis</i> , 2018, 24, 536-537.	0.4	1
61	GPU-Accelerated Matrix Exponentiation for 5-D STEM-DCI Simulations. <i>Microscopy and Microanalysis</i> , 2018, 24, 222-223.	0.4	3
62	Indexing of Large SEM Diffraction Data Sets Using a Dictionary Approach. <i>Microscopy and Microanalysis</i> , 2018, 24, 550-551.	0.4	0
63	Extracting Grain Orientations from EBSD Patterns of Polycrystalline Materials Using Convolutional Neural Networks. <i>Microscopy and Microanalysis</i> , 2018, 24, 497-502.	0.4	46
64	Lorentz Transmission Electron Microscopy Image Simulations of Experimental Nano-Chessboard Observations in Co-Pt Alloys. <i>Microscopy and Microanalysis</i> , 2018, 24, 221-226.	0.4	3
65	Computational modeling of crystallographic texture evolution over cubochoiric space. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 065012.	2.0	2
66	High resolution low kV EBSD of heavily deformed and nanocrystalline Aluminium by dictionary-based indexing. <i>Scientific Reports</i> , 2018, 8, 10991.	3.3	51
67	Integrating S/TEM Imaging Modality Simulations with Mesoscale Material Simulations: A Case Study with Phase Field. <i>Microscopy and Microanalysis</i> , 2018, 24, 212-213.	0.4	1
68	Automated Prediction of Pseudo-Symmetry Issues in EBSD. <i>Microscopy and Microanalysis</i> , 2018, 24, 566-567.	0.4	1
69	Imaging Magnetic Domains in Functional Nanoscale Heterostructures using Lorentz microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 910-911.	0.4	0
70	Model-Based Iterative Reconstruction of Magnetization Using Vector Field Electron Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 432-446.	4.4	3
71	Dictionary Indexing of Electron Channeling Patterns. <i>Microscopy and Microanalysis</i> , 2017, 23, 1-10.	0.4	42
72	Error analysis of the crystal orientations obtained by the dictionary approach to EBSD indexing. <i>Ultramicroscopy</i> , 2017, 181, 17-26.	1.9	59

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73	Three-dimensional texture visualization approaches: theoretical analysis and examples. Journal of Applied Crystallography, 2017, 50, 430-440.	4.5	5
74	Influence of Noise-Generating Factors on Cross-Correlation Electron Backscatter Diffraction (EBSD) Measurement of Geometrically Necessary Dislocations (GNDs). Microscopy and Microanalysis, 2017, 23, 460-471.	0.4	18
75	Three-dimensional texture visualization approaches: applications to nickel and titanium alloys. Journal of Applied Crystallography, 2017, 50, 1267-1279.	4.5	3
76	EMsoft: open source software for electron diffraction/image simulations. Microscopy and Microanalysis, 2017, 23, 212-213.	0.4	34
77	Quantitative electron backscatter diffraction (EBSD) data analyses using the dictionary indexing (DI) approach: Overcoming indexing difficulties on geological materials. American Mineralogist, 2017, 102, 1843-1855.	1.9	30
78	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
79	Reconstruction of Laser-Induced Surface Topography from Electron Backscatter Diffraction Patterns. Microscopy and Microanalysis, 2017, 23, 730-740.	0.4	0
80	Applications of Forward Modeling to Refinement of Grain Orientations. Microscopy and Microanalysis, 2017, 23, 594-595.	0.4	1
81	3D reconstruction of the magnetic vector potential using model based iterative reconstruction. Ultramicroscopy, 2017, 182, 131-144.	1.9	12
82	Mapping 180Å° polar domains using electron backscatter diffraction and dynamical scattering simulations. Ultramicroscopy, 2017, 173, 47-51.	1.9	13
83	Magnetic phase shift reconstruction for uniformly magnetized nanowires. Ultramicroscopy, 2017, 172, 10-16.	1.9	0
84	Aberration Corrected Lorentz Microscopy to Investigate Magnetic Domain Walls in Co-Pt Nano-Chessboards. Microscopy and Microanalysis, 2017, 23, 454-455.	0.4	1
85	Automated Acquisition and Analysis of Selected Area Electron Channeling Patterns in an FEG-SEM. Microscopy and Microanalysis, 2017, 23, 550-551.	0.4	0
86	Investigating Defect Contrast in GeXSh1-x/Si Epitaxial Structures Using Electron Channeling Contrast Imaging. Microscopy and Microanalysis, 2017, 23, 574-575.	0.4	0
87	Accurate Grain and Phase Boundary Location by Dictionary-based Indexing of Geological EBSD Data. Microscopy and Microanalysis, 2017, 23, 2156-2157.	0.4	0
88	Dynamical Simulations of Transmission Kikuchi Diffraction (TKD) Patterns. Microscopy and Microanalysis, 2017, 23, 540-541.	0.4	0
89	Lorentz TEM Image Simulations of Dzyaloshinskii Domain Walls Under an In-Plane Magnetic Field. Microscopy and Microanalysis, 2017, 23, 1734-1735.	0.4	0
90	Application of forward models to crystal orientation refinement. Journal of Applied Crystallography, 2017, 50, 1664-1676.	4.5	19

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91	Competitive Growth of Scrutinyite (PbO_2) and Rutile Polymorphs of SnO_2 on All Orientations of Columbite CoNb_2O_6 Substrates. <i>Crystal Growth and Design</i> , 2017, 17, 3929-3939.	3.0	25
92	Iterative Reconstruction of the Magnetization and Charge Density using Vector Field Electron Tomography. <i>Microscopy and Microanalysis</i> , 2016, 22, 1686-1687.	0.4	2
93	Characterization of encapsulated quantum dots via electron channeling contrast imaging. <i>Applied Physics Letters</i> , 2016, 109, 062101.	3.3	7
94	Materials discovery: Understanding polycrystals from large-scale electron patterns. , 2016, , .		17
95	Automated Data Acquisition and Indexing of Electron Channeling Patterns using the Dictionary Approach. <i>Microscopy and Microanalysis</i> , 2016, 22, 1420-1421.	0.4	0
96	Magnetic Domain Imaging of Ni-Mn-Ga Heusler Alloys Using Lorentz TEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 1720-1721.	0.4	3
97	Quantification of rafting of Ni_3Al precipitates in Ni-based superalloys. <i>Acta Materialia</i> , 2016, 103, 322-333.	7.9	46
98	Nanoscale Skyrmions in a Nonchiral Metallic Multiferroic: Ni_2MnGa . <i>Nano Letters</i> , 2016, 16, 4141-4148.	9.1	79
99	Determination of sample surface topography using electron back-scatter diffraction patterns. <i>Scripta Materialia</i> , 2016, 120, 23-26.	5.2	6
100	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
101	Performance of Dynamically Simulated Reference Patterns for Cross-Correlation Electron Backscatter Diffraction. <i>Microscopy and Microanalysis</i> , 2016, 22, 789-802.	0.4	23
102	Towards a quantitative comparison between experimental and synthetic grain structures. <i>Acta Materialia</i> , 2016, 111, 242-252.	7.9	13
103	A phantom-based forward projection approach in support of model-based iterative reconstructions for HAADF-STEM tomography. <i>Ultramicroscopy</i> , 2016, 160, 7-17.	1.9	1
104	Recent advances in Lorentz microscopy. <i>Current Opinion in Solid State and Materials Science</i> , 2016, 20, 107-114.	11.5	53
105	Modeling dynamical electron scattering with Bethe potentials and the scattering matrix. <i>Ultramicroscopy</i> , 2016, 160, 35-43.	1.9	7
106	A Dictionary Approach to Electron Backscatter Diffraction Indexing. <i>Microscopy and Microanalysis</i> , 2015, 21, 739-752.	0.4	131
107	Automated Dictionary-based Indexing of Electron Channeling Patterns. <i>Microscopy and Microanalysis</i> , 2015, 21, 2041-2042.	0.4	1
108	GPU-Based Defect Image Simulations using the Scattering Matrix Formalism. <i>Microscopy and Microanalysis</i> , 2015, 21, 2213-2214.	0.4	2

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109	Can EBSD Patterns Be Used for Determination of Grain Boundary Inclination?. Microscopy and Microanalysis, 2015, 21, 2039-2040.	0.4	2
110	The Three-Dimensional Morphology of Growing Dendrites. Scientific Reports, 2015, 5, 11824.	3.3	92
111	Determination of Surface Topography from Laser Ablation using EBSD. Microscopy and Microanalysis, 2015, 21, 2369-2370.	0.4	0
112	A Statistical Dictionary Approach to Automated Orientation Determination from Precession Electron Diffraction Patterns. Microscopy and Microanalysis, 2015, 21, 1247-1248.	0.4	1
113	Comparison of Magnetic Domain Observation by Means of Magnetic Force Microscopy and Lorentz Transmission Electron Microscopy. Microscopy and Microanalysis, 2015, 21, 1619-1620.	0.4	0
114	4D model-based iterative reconstruction from interlaced views. , 2015, , .		5
115	Consistent representations of and conversions between 3D rotations. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 083501.	2.0	59
116	Quantifying the abnormal strain state in ferroelastic materials: A moment invariant approach. Acta Materialia, 2015, 94, 172-180.	7.9	8
117	Model-Based Iterative Reconstruction for Bright-Field Electron Tomography. IEEE Transactions on Computational Imaging, 2015, 1, 1-15.	4.4	37
118	Materials Data Science: Current Status and Future Outlook. Annual Review of Materials Research, 2015, 45, 171-193.	9.3	198
119	Topology-Preserving Multi-label Image Segmentation. , 2015, , .		4
120	Parameter Estimation in Spherical Symmetry Groups. IEEE Signal Processing Letters, 2015, 22, 1152-1155.	3.6	13
121	Applications of Electron Channeling Contrast Imaging for the Rapid Characterization of Extended Defects in III-V/Si Heterostructures. IEEE Journal of Photovoltaics, 2015, 5, 676-682.	2.5	35
122	Austenite grain refinement during load-biased thermal cycling of a Ni49.9Ti50.1 shape memory alloy. Acta Materialia, 2015, 91, 318-329.	7.9	37
123	Electron channeling contrast imaging of anti-phase boundaries in coherently strained La0.7Sr0.3MnO3 thin films on (110)-oriented SrTiO3. Applied Physics Letters, 2015, 107, .	3.3	6
124	TIMBIR: A Method for Time-Space Reconstruction From Interlaced Views. IEEE Transactions on Computational Imaging, 2015, 1, 96-111.	4.4	80
125	Introduction and comparison of new EBSD post-processing methodologies. Ultramicroscopy, 2015, 159, 81-94.	1.9	149
126	Defect Analysis in La0.7Sr0.3MnO3 Epitaxial Thin Films by Electron Channeling Contrast Imaging (ECCI). Microscopy and Microanalysis, 2014, 20, 1036-1037.	0.4	0

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127	A unified Markov random field/marked point process image model and its application to computational materials. , 2014, , .		5
128	Rapid characterization of extended defects in III–V/Si by electron channeling contrast imaging. , 2014, , .		2
129	Rapid misfit dislocation characterization in heteroepitaxial III-V/Si thin films by electron channeling contrast imaging. Applied Physics Letters, 2014, 104, .	3.3	55
130	Theory of dynamical electron channeling contrast images of near-surface crystal defects. Ultramicroscopy, 2014, 146, 71-78.	1.9	38
131	Theoretical study of ferroelectric nanoparticles using phase reconstructed electron microscopy. Physical Review B, 2014, 89, .	3.2	3
132	Characterization and modeling of defects generated in pseudoelastically deformed NiTi microcrystals. Scripta Materialia, 2014, 78-79, 69-72.	5.2	43
133	Separation of electrostatic and magnetic phase shifts using a modified transport-of-intensity equation. Ultramicroscopy, 2014, 139, 5-12.	1.9	19
134	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
135	Graph-cut based interactive segmentation of 3D materials-science images. Machine Vision and Applications, 2014, 25, 1615-1629.	2.7	6
136	h5ebds: an archival data format for electron back-scatter diffraction data sets. Integrating Materials and Manufacturing Innovation, 2014, 3, 44-55.	2.6	10
137	Model-based Iterative Reconstruction for Low-dose Electron Tomography. Microscopy and Microanalysis, 2014, 20, 802-803.	0.4	0
138	Measuring the Strain Sensitivity in Si (001) Electron Channeling Patterns Using Higher-order Laue Zone Line Shifts. Microscopy and Microanalysis, 2014, 20, 42-43.	0.4	4
139	Absorption Corrections for a Four-Quadrant SuperX EDS Detector. Microscopy and Microanalysis, 2014, 20, 100-101.	0.4	3
140	Zone Axis STEM Defect Imaging Based on Electron Kossel Patterns. Microscopy and Microanalysis, 2014, 20, 114-115.	0.4	0
141	Using Electron Channeling Contrast Imaging for Misfit Dislocation Characterization in Heteroepitaxial III-V/Si Thin Films. Microscopy and Microanalysis, 2014, 20, 552-553.	0.4	0
142	Towards a Uniform Model for Lattice Defect Image Simulations. Microscopy and Microanalysis, 2014, 20, 1022-1023.	0.4	4
143	STEM-Based Characterization of Dislocations and Stacking Faults in Structural Materials. Microscopy and Microanalysis, 2014, 20, 1032-1033.	0.4	0
144	Using Bethe Potentials in the Scattering Matrix for Defect Image Simulations. Microscopy and Microanalysis, 2014, 20, 1030-1031.	0.4	1

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145	Imaging of Domains and Vortices in Multifunctional Materials. Springer Series in Materials Science, 2014, , 137-158.	0.6	3
146	Role of Grain Boundary Defects During Grain Coarsening of Lamellar Block Copolymers. Macromolecules, 2013, 46, 204-215.	4.8	39
147	3D Materials Image Segmentation by 2D Propagation: A Graph-Cut Approach Considering Homomorphism. IEEE Transactions on Image Processing, 2013, 22, 5282-5293.	9.8	20
148	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
149	A quantitative description of the morphological aspects of materials structures suitable for quantitative comparisons of 3D microstructures. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 015003.	2.0	19
150	Area-preserving projections from hexagonal and triangular domains to the sphere and applications to electron back-scatter diffraction pattern simulations. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 055021.	2.0	5
151	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
152	EBSD image segmentation using a physics-based forward model. , 2013, , .		5
153	Model based iterative reconstruction for Bright Field electron tomography. Proceedings of SPIE, 2013, , .	0.8	14
154	Dynamical Electron Backscatter Diffraction Patterns. Part I: Pattern Simulations. Microscopy and Microanalysis, 2013, 19, 1255-1265.	0.4	115
155	Building and enforcing shape priors for segmentation of alloy micrographs. , 2013, , .		0
156	Interactive grain image segmentation using graph cut algorithms. Proceedings of SPIE, 2013, , .	0.8	3
157	Magnetic interactions and reversal of artificial square spin ices. New Journal of Physics, 2012, 14, 075028.	2.9	22
158	Bayesian tomographic reconstruction for high angle annular dark field (HAADF) scanning transmission electron microscopy (STEM). , 2012, , .		4
159	Low angle ADF STEM defect imaging. Microscopy and Microanalysis, 2012, 18, 676-677.	0.4	13
160	Electron Channeling Contrast Image (ECCI) Simulations. Microscopy and Microanalysis, 2012, 18, 682-683.	0.4	1
161	Dislocation Analysis in Metal-Oxide Materials and Devices by Electron Channeling Contrast Imaging. Microscopy and Microanalysis, 2012, 18, 706-707.	0.4	0
162	Zone axis STEM defect imaging based on electron Kossel patterns. Microscopy and Microanalysis, 2012, 18, 710-711.	0.4	0

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163	TEM Investigation of Dislocations in an Aged Ni-Mn-Ga Alloy. <i>Microscopy and Microanalysis</i> , 2012, 18, 756-757.	0.4	0
164	A Practical Guide to Bright/Dark Field Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2012, 18, 1964-1965.	0.4	0
165	Future Prospects for Defect and Strain Analysis in the SEM via Electron Channeling. <i>Microscopy Today</i> , 2012, 20, 12-16.	0.3	25
166	Forces between a permanent magnet and a soft magnetic plate. <i>IEEE Magnetics Letters</i> , 2012, 3, .	1.1	11
167	Precipitate shape fitting and reconstruction by means of 3D Zernike functions. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012, 20, 015003.	2.0	5
168	Atomic-resolution defect contrast in low angle annular dark-field STEM. <i>Ultramicroscopy</i> , 2012, 116, 47-55.	1.9	93
169	Graph Cut Approaches for Materials Segmentation Preserving Shape, Appearance, and Topology. , 2012, , 147-152.		0
170	Diffraction contrast STEM of dislocations: Imaging and simulations. <i>Ultramicroscopy</i> , 2011, 111, 1483-1487.	1.9	136
171	On the magnetostatics of chains of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2912-2922.	2.3	23
172	In situ Lorentz TEM magnetization studies on a Fe-Pd-Co martensitic alloy. <i>Acta Materialia</i> , 2011, 59, 6646-6657.	7.9	26
173	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
174	Bayesian methods for image segmentation. <i>Jom</i> , 2011, 63, 55-57.	1.9	15
175	Nanoscale structure of the magnetic induction at monopole defects in artificial spin-ice lattices. <i>Physical Review B</i> , 2011, 83, .	3.2	96
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177	Image Simulations of Defect Images in STEM Observation Mode. <i>Microscopy and Microanalysis</i> , 2010, 16, 246-247.	0.4	1
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