

David P Field

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175
papers

4,535
citations

33
h-index

63
g-index

184
ext. papers

5,273
ext. citations

3.2
avg, IF

5.94
L-index

#	Paper	IF	Citations
175	The role of second phase particles and grain boundaries on recrystallization: Quasi-in situ experiments and modeling in U-10Mo alloy system. <i>Journal of Nuclear Materials</i> , 2021 , 559, 153445	3.3	0
174	Factors affecting Confidence Index in EBSD analysis. <i>Ultramicroscopy</i> , 2021 , 225, 113269	3.1	1
173	The Effect of Homogenization Heat Treatment on the Texture Evolution in U-10Mo Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 3871-3879	2.3	2
172	Friction stir welding/processing of metals and alloys: A comprehensive review on microstructural evolution. <i>Progress in Materials Science</i> , 2021 , 117, 100752	42.2	154
171	Analyzing recrystallization behavior of heterogeneous structures single-phase Al alloys. <i>Materialia</i> , 2021 , 19, 101190	3.2	1
170	Effect of gradient microstructures on strengthening and toughening of AZ31. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138615	5.3	8
169	Effect of strain and strain rate on the development of deformation heterogeneity during tensile deformation of a solution annealed 304 LN austenitic stainless steel: An EBSD study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138854	5.3	19
168	An electron backscatter diffraction analysis of grain boundary initiated discontinuous precipitation in U10Mo. <i>Journal of Nuclear Materials</i> , 2020 , 529, 151940	3.3	3
167	Thermal behavior of AZ31 gradient microstructure after cold severe surface plastic deformation. <i>Materials Characterization</i> , 2020 , 169, 110630	3.9	3
166	Influence of microstructural heterogeneity and plastic strain on geometrically necessary dislocation structure evolution in single-phase and two-phase alloys. <i>Materials Characterization</i> , 2020 , 170, 110690	3.9	8
165	Gradient microstructure and enhanced mechanical performance of magnesium alloy by severe impact loading. <i>Journal of Materials Science and Technology</i> , 2020 , 36, 45-49	9.1	11
164	Observation of grain growth in U-10Mo alloy. <i>Journal of Physics: Conference Series</i> , 2019 , 1270, 012029	0.3	
163	Creation of heterogeneous microstructures in copper using high-pressure torsion to enhance mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 142-148	5.3	11
162	Influence of strain amplitude on the development of dislocation structure during cyclic plastic deformation of 304 LN austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138090	5.3	13
161	Effects of shot peening parameters on gradient microstructure and mechanical properties of TRC AZ31. <i>Materials Characterization</i> , 2019 , 148, 9-16	3.9	26
160	In-situ EBSD study on the cube texture evolution in 3 wt% Si steel complemented by ex-situ EBSD experiment From nucleation to grain growth. <i>Acta Materialia</i> , 2019 , 166, 100-112	8.4	34
159	Corrosion mechanism in PVD deposited nano-scale titanium nitride thin film with intercalated titanium for protecting the surface of silicon. <i>Electrochimica Acta</i> , 2018 , 264, 69-82	6.7	21

158	Local Texture Evolution and Mechanical Performance of Ultra-High-Speed Friction Stir Weld of AA 6111-T4 Sheets. <i>Minerals, Metals and Materials Series</i> , 2018 , 249-257	0.3	
157	3D microstructural evolution of primary recrystallization and grain growth in cold rolled single-phase aluminum alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 035011	2	14
156	High-Speed Friction Stir Welding of AA7075-T6 Sheet: Microstructure, Mechanical Properties, Micro-texture, and Thermal History. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 210-222	2.3	24
155	Microstructure and Texture Evolution of Magnesium alloy after Shear Assisted Processing and Extrusion (ShAPETM). <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 375, 012007	0.4	3
154	Bifurcation in deformation mechanism to overcome strength-ductility paradox in metal-ceramic multilayer thin-films. <i>Applied Physics Letters</i> , 2018 , 113, 101902	3.4	1
153	Transmission Kikuchi diffraction from nano-crystalline Ti and TiN thin-films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 375, 012009	0.4	
152	Geometrically Necessary Dislocation Density Evolution in Interstitial Free Steel at Small Plastic Strains. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 3274-3282	2.3	27
151	High-Speed FSW Aluminum Alloy 7075 Microstructure and Corrosion Properties. <i>Minerals, Metals and Materials Series</i> , 2017 , 125-135	0.3	2
150	Analysis of Particle-Stimulated Nucleation (PSN)-Dominated Recrystallization for Hot-Rolled 7050 Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 2062-2076	2.3	33
149	Bifurcation in deformation behavior of Cu and Ta by accumulative roll-bonding at high temperature. <i>Scripta Materialia</i> , 2017 , 136, 87-91	5.6	7
148	Modeling the Controlled Recrystallization of Particle-Containing Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 207-213	1.6	11
147	Hydrostatic pressure effect on mechanical behavior and texture evolution of Al and Brass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 155-161	5.3	0
146	Phase Identification of Dual-Phase (DP980) Steels by Electron Backscatter Diffraction and Nanoindentation Techniques. <i>Microscopy and Microanalysis</i> , 2016 , 22, 99-107	0.5	5
145	Plasticity in Materials with Heterogeneous Microstructures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 6608-6620	2.3	7
144	Reliability of twin-dependent triple junction distributions measured from a section plane. <i>Acta Materialia</i> , 2016 , 103, 809-822	8.4	4
143	Morphology and distribution of martensite in dual phase (DP980) steel and its relation to the multiscale mechanical behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 659, 93-103	5.3	43
142	Microstructural Characterization of Friction Stir Welded Aluminum-Steel Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2815-2829	2.3	25
141	Quantifying the effects of tempering on individual phase properties of DP980 steel with nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 667, 240-249	5.3	42

140	Influence of plastic deformation heterogeneity on development of geometrically necessary dislocation density in dual phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 667, 435-443	5.3	92
139	Measuring twin dependent triple junctions from a single section plane. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 82, 012004	0.4	
138	The Parameters and Fundamental Zones of Twin-Dependent Triple Junction Distributions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2273-2284	2.3	3
137	3D image reconstruction of fiber systems using electron tomography. <i>Ultramicroscopy</i> , 2015 , 149, 21-5	3.1	6
136	The effect of hot rolling on the microstructure, texture and mechanical properties of twin roll cast AZ31Mg. <i>Journal of Materials Processing Technology</i> , 2015 , 216, 315-327	5.3	8
135	Post processing effects on GND calculations from EBSD-based orientation measurements. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012049	0.4	8
134	Thermal microstructural stability of AZ31 magnesium after severe plastic deformation. <i>Materials Characterization</i> , 2015 , 101, 9-19	3.9	35
133	Bimodal Grain Size Distribution Enhances Strength and Ductility Simultaneously in a Low-Carbon Low-Alloy Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1948-1957	2.3	23
132	Formation of annealing twin boundaries in nickel. <i>Scripta Materialia</i> , 2014 , 81, 52-55	5.6	37
131	Influence of pressure on the microstructural evolution of Ta during shear deformation. <i>Scripta Materialia</i> , 2014 , 80, 21-24	5.6	2
130	Plastic anisotropy of electro-deposited pure Iron with sharp crystallographic // texture in normal direction: Analysis by an explicitly dislocation-based crystal plasticity model. <i>International Journal of Plasticity</i> , 2014 , 52, 18-32	7.6	23
129	Prediction of flow stress and textures of AZ31 magnesium alloy at elevated temperature. <i>Philosophical Magazine</i> , 2014 , 94, 3353-3367	1.6	4
128	Using Coupled Mesoscale Experiments and Simulations to Investigate High Burn-Up Oxide Fuel Thermal Conductivity. <i>Jom</i> , 2014 , 66, 2569-2577	2.1	14
127	Microstructural stability after severe plastic deformation of AZ31 Magnesium. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012077	0.4	0
126	A study of the hot and cold deformation of twin-roll cast magnesium alloy AZ31. <i>Philosophical Magazine</i> , 2014 , 94, 381-403	1.6	24
125	Dislocation density based crystal plasticity finite element simulation of Al bicrystal with grain boundary effects. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1651, 1		0
124	Material Flow during Friction Stir Welding of HSLA 65 Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 3167-3175	2.3	16
123	Characterization of twin boundaries in an Fe _{0.75} Mn _{0.56} C twinning induced plasticity steel. <i>Materials Characterization</i> , 2013 , 85, 100-110	3.9	8

122	Room temperature equal-channel angular pressing of a magnesium alloy. <i>Acta Materialia</i> , 2013 , 61, 3027-3036	4.3	43
121	Characterization of Creep-Damaged Grain Boundaries of Alloy 617. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 4927-4936	2.3	6
120	A study of the heterogeneity of plastic deformation in IF steel by EBSD. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 548, 56-63	5.3	126
119	Deformation and fracture behavior of laser processed dense and porous Ti6Al4V alloy under static and dynamic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 213-221	5.3	61
118	Explicit incorporation of cross-slip in a dislocation density-based crystal plasticity model. <i>Philosophical Magazine</i> , 2012 , 92, 3084-3100	1.6	24
117	Quantification of dislocation structure heterogeneity in deformed polycrystals by EBSD. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012 , 20, 024007	2	56
116	Damage Susceptibility of Grain Boundaries in HT9 Steel Subjected to High-Temperature Creep. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 3539-3546	2.3	1
115	Determination of Dislocation Interaction Strengths Using Discrete Dislocation Dynamics of Curved Dislocations. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012 , 134,	1.8	19
114	Dislocation Density Based Crystal Plasticity Finite Element Simulation of Alpha-Iron. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1383, 147		
113	Grain Boundary Analysis of Crept Alloy 617. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1383, 153		1
112	Observation of Structure Evolution During Annealing of 7xxx Series Al Deformed at High Temperature 2012 , 383-386		2
111	Modeling of Deformation Microstructure - Strain Hardening and Crystallographic Reorientation of Crystallites in a Columnar Polycrystal. <i>Materials Science Forum</i> , 2011 , 702-703, 196-199	0.4	1
110	Quantitative characterization of carbon nanotube turf topology by SEM analysis. <i>Journal of Materials Science</i> , 2011 , 46, 3119-3126	4.3	16
109	Observation of Deformation and Lattice Rotation in a Cu Bicrystal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 676-683	2.3	12
108	A review of strain analysis using electron backscatter diffraction. <i>Microscopy and Microanalysis</i> , 2011 , 17, 316-29	0.5	700
107	On the Use of EBSD to Study the Heterogeneity of Plastic Deformation. <i>Materials Science Forum</i> , 2011 , 702-703, 245-252	0.4	5
106	Comparison of Gradients in Orientation and Stress between Experiment and Simulation. <i>Materials Science Forum</i> , 2011 , 702-703, 463-468	0.4	10
105	Characterization of Curvature in CNT Turf Structures from Two-Dimensional Images. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1283, 1		1

104	Towards an integrated materials characterization toolbox. <i>Journal of Materials Research</i> , 2011 , 26, 1341-1383	1.3	75
103	Grain boundary networks in high-performance, heteroepitaxial, YBCO films on polycrystalline, cube-textured metals. <i>Philosophical Magazine Letters</i> , 2011 , 91, 246-255	1	4
102	Observations of Dislocation Structure in AA 7050 by EBSD. <i>Materials Science Forum</i> , 2011 , 702-703, 493-498	1	1
101	Grain Boundary Analysis of HT9 Steel after Accelerated Creep Testing. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1264, 1		1
100	Development of a 3D Crystal Plasticity Model that Tracks Dislocation Density Evolution. <i>Solid State Phenomena</i> , 2010 , 160, 57-62	0.4	
99	Two- and Three-Dimensional EBSD Measurement of Dislocation Density in Deformed Structures. <i>Solid State Phenomena</i> , 2010 , 160, 17-22	0.4	2
98	Mesoscale strain measurement in deformed crystals: A comparison of X-ray microdiffraction with electron backscatter diffraction. <i>Philosophical Magazine</i> , 2010 , 90, 1451-1464	1.6	20
97	The trianvil test apparatus: measurement of shear strength under pressure. <i>Review of Scientific Instruments</i> , 2010 , 81, 013908	1.7	3
96	Evolution of Annealing Twins in Sputtered Cu Films. <i>Journal of Electronic Materials</i> , 2010 , 39, 191-199	1.9	1
95	Crystallographic Texture in the Friction-Stir-Welded Metal Matrix Composite Al6061 with 10 Vol Pct Al ₂ O ₃ . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 2109-2114	2.3	41
94	Simulation of structure evolution in Cu films. <i>Thin Solid Films</i> , 2009 , 517, 1977-1982	2.2	9
93	A dislocation-density-based 3D crystal plasticity model for pure aluminum. <i>Acta Materialia</i> , 2009 , 57, 5936-5946	8.4	47
92	Present State of Electron Backscatter Diffraction and Prospective Developments 2009 , 1-20		25
91	Mapping and Assessing Plastic Deformation Using EBSD 2009 , 251-262		46
90	Electron Backscatter Diffraction: Operation and Applications. <i>Microscopy and Microanalysis</i> , 2008 , 14, 506-507	0.5	
89	Orientation dependence of dislocation structure evolution during cold rolling of aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 28-35	5.3	75
88	Excess Dislocation Density Measurement Dependence on EBSD Step Size. <i>Microscopy and Microanalysis</i> , 2007 , 13,	0.5	6
87	The role of annealing twins during recrystallization of Cu. <i>Acta Materialia</i> , 2007 , 55, 4233-4241	8.4	248

86	Micromechanics of hardening of elastic-plastic crystals with elastic inclusions: I Dilute concentration. <i>International Journal of Plasticity</i> , 2007 , 23, 1901-1917	7.6	14
85	Effect of film thickness and laser energy density on the microstructure of a-GaAs films after excimer laser crystallization. <i>Journal of Applied Physics</i> , 2007 , 102, 013519	2.5	5
84	Texture Evolution in Cu Films and Lines. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 990, 1		
83	Influence of grain size on the tensile response of aluminum under plate-impact loading. <i>Journal of Applied Physics</i> , 2007 , 102, 083513	2.5	45
82	The role of shear stress in the formation of annealing twin boundaries in copper. <i>Scripta Materialia</i> , 2006 , 54, 983-986	5.6	26
81	Predicting thickness dependent twin boundary formation in sputtered Cu films. <i>Scripta Materialia</i> , 2006 , 54, 999-1003	5.6	17
80	A Novel Mechanical Method to Measure Shear Strength in Specimens Under Pressure. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 929, 1		3
79	A novel structural-based approach to model the age hardening behaviour of aluminium alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2006 , 14, 905-921	2	7
78	Spall behavior of aluminum with varying microstructures. <i>Journal of Applied Physics</i> , 2006 , 99, 023528	2.5	94
77	Effect of Film Thickness on the Annealing Texture in Sputtered and Electroplated Cu Films. <i>Advanced Materials Research</i> , 2006 , 15-17, 982-988	0.5	
76	Superplastic Behavior Of Fine Grained Ti-6Al-4V. <i>Materials Technology</i> , 2006 , 21, 84-87	2.1	1
75	Microstructural evolution and observed stress response during hot deformation of 5005 and 6022 Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 425, 205-212	5.3	16
74	The effect of shock-loading on the aging behavior of an Al-Mg-Si alloy. <i>Journal of Materials Science</i> , 2006 , 41, 1711-1720	4.3	8
73	Local Orientation Gradient and Recrystallization of Deformed Copper. <i>Solid State Phenomena</i> , 2005 , 105, 157-162	0.4	4
72	Impact of Local Texture on Recrystallization and Grain Growth via In Situ EBSD. <i>Materials Science Forum</i> , 2005 , 495-497, 1121-1130	0.4	7
71	Improving the Spatial Resolution of EBSD. <i>Microscopy and Microanalysis</i> , 2005 , 11,	0.5	16
70	Barrier layer, geometry and alloying effects on the microstructure and texture of electroplated copper thin films and damascene lines. <i>Thin Solid Films</i> , 2005 , 471, 63-70	2.2	27
69	The effect of predeformation on the θ and θ' precipitates and the role of Q β phase in an AlMgSi alloy; AA6022. <i>Scripta Materialia</i> , 2005 , 53, 299-303	5.6	90

68	Analysis of local orientation gradients in deformed single crystals. <i>Ultramicroscopy</i> , 2005 , 103, 33-9	3.1	163
67	A parallel macro/micro elastoplasticity model for aluminum deformation and comparison with experiments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 241-256	2.3	6
66	The effect of cold deformation on the kinetics of the β precipitates in an Al-Mg-Si alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2059-2065	2.3	46
65	Effect of film thickness on the evolution of annealing texture in sputtered copper films. <i>Journal of Electronic Materials</i> , 2005 , 34, 1500-1508	1.9	27
64	Microstructural development in asymmetric processing of tantalum plate. <i>Journal of Electronic Materials</i> , 2005 , 34, 1521-1525	1.9	22
63	Characterization of low angle grain boundaries in yttrium orthovanadate. <i>Journal of Materials Science</i> , 2005 , 40, 3347-3353	4.3	7
62	Scalar Measures of Texture Heterogeneity. <i>Materials Science Forum</i> , 2005 , 495-497, 207-212	0.4	6
61	Texture Evolution in Thin Cu Films and Lines. <i>Materials Science Forum</i> , 2005 , 495-497, 1323-1332	0.4	4
60	Transmission electron microscopy and differential scanning calorimetry studies on the precipitation sequence in an Al-Mg-Si alloy: AA6022. <i>Journal of Materials Research</i> , 2005 , 20, 2705-2711	2.5	30
59	Structure Evolution in Plated Cu Films. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 863, B5.2-1		
58	Electron Backscatter Diffraction of Aluminum Alloys 2005 , 519-573		
57	In-Situ EBSD Investigation of Recrystallization in ECAE Processed Copper. <i>Materials Science Forum</i> , 2004 , 467-470, 1401-1406	0.4	12
56	Alloying effects on dislocation substructure evolution of aluminum alloys. <i>International Journal of Plasticity</i> , 2004 , 20, 459-476	7.6	25
55	A systematic comparison of static and dynamic ageing of two AlMgSi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 373, 65-71	5.3	96
54	Observation of twin boundary migration in copper during deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 372, 173-179	5.3	58
53	EBSD Crystallochemical Analysis of (W,V)C Cemented Carbides. <i>Microscopy and Microanalysis</i> , 2004 , 10, 710-711	0.5	1
52	Textured Structures 2004 , 215-226		2
51	Hydrogen and deformation: Nano- and microindentation studies. <i>Jom</i> , 2003 , 55, 47-50	2.1	14

50	The Applicability of Conventional Fiber Texture Analysis Techniques in Electron Backscatter Diffraction. <i>Materials Science Forum</i> , 2003 , 426-432, 3685-3690	0.4	6
49	Microtextural Analysis of Grain Fragmentation in Aluminum. <i>Materials Science Forum</i> , 2003 , 426-432, 3739-3744	0.4	9
48	Texture and microtexture of copper films prepared by the self-ion assisted deposition technique on barrier layers with different structure. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 721, 1		
47	The microstructure of Cu films deposited by the self-ion assisted technique. <i>Journal of Electronic Materials</i> , 2002 , 31, 40-44	1.9	9
46	On the Development of New Scalar Measures of Heterogeneity. <i>Materials Science Forum</i> , 2002 , 408-412, 107-112	0.4	2
45	Effects of Local Texture and Grain Structure on the Sputtering Performance of Tantalum. <i>Materials Science Forum</i> , 2002 , 408-412, 1615-1620	0.4	9
44	Tool Geometry Dependence of Local Texture in Friction Stir Welds of 7050 Aluminum Plate. <i>Materials Science Forum</i> , 2002 , 408-412, 1507-1512	0.4	3
43	Effect of Texture on Hillock Formation in Aluminum Films. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 721, 1		1
42	Superior superplastic behavior in fine-grained Ti ₃ Al ₂ V sheet. <i>Journal of Alloys and Compounds</i> , 2002 , 345, 221-227	5.7	30
41	Heterogeneity of crystallographic texture in friction stir welds of aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2869-2877	2.3	191
40	The flow stress behavior of OFHC polycrystalline copper. <i>Acta Materialia</i> , 2001 , 49, 2065-2074	8.4	54
39	Investigating the microstructure-reliability relationship in Cu damascene lines. <i>Scripta Materialia</i> , 2001 , 45, 1069-1075	5.6	15
38	Electromigration properties of multigrain aluminum thin film conductors as influenced by grain boundary structure. <i>Journal of Materials Research</i> , 2001 , 16, 2124-2129	2.5	10
37	EM activation energy in aluminum conductors tested by the drift velocity method. <i>Scripta Materialia</i> , 2000 , 42, 621-626	5.6	
36	The energy of activation of electromigration in aluminum conductors tested by the drift-velocity method. <i>Russian Microelectronics</i> , 2000 , 29, 316-323	0.5	
35	Advanced Software Capabilities for Automated EBSD 2000 , 141-152		12
34	Recent studies of local texture and its influence on failure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 257, 165-170	5.3	41
33	Texture and Grain Boundary Structure Dependence of Hillock Formation in Thin Metal Films. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 516, 115		10

32	Grain boundary misorientation angles and stress-induced voiding in oxide passivated copper interconnects. <i>Applied Physics Letters</i> , 1997 , 70, 1242-1244	3.4	60
31	Electron backscatter diffraction and orientation imaging microscopy. <i>Materials Science and Technology</i> , 1997 , 13, 69-78	1.5	70
30	Relationship Between Structure and Electromigration Characteristics of Pure Aluminum Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 473, 369		3
29	The Microstructure and Electromigration Performance of Damascene-Fabricated Aluminum Interconnects. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 472, 313		3
28	Analysis of grain-boundary structure in AlCu interconnects. <i>Journal of Applied Physics</i> , 1997 , 82, 2383-2392		31
27	Local textures and grain boundaries in voided copper interconnects. <i>Journal of Electronic Materials</i> , 1997 , 26, 996-1001	1.9	24
26	Recent advances in the application of orientation imaging. <i>Ultramicroscopy</i> , 1997 , 67, 1-9	3.1	191
25	Rodrigues parameterization for orientation and misorientation distributions. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996 , 73, 1113-1130		48
24	Microstructure mapping of interconnects by orientation imaging microscopy. <i>Journal of Electronic Materials</i> , 1996 , 25, 1767-1771	1.9	10
23	An Experimental Investigation of Grain Boundary Structure Effects on Grain Growth. <i>Materials Science Forum</i> , 1996 , 204-206, 735-742	0.4	
22	Quantification of partially recrystallized polycrystals using electron backscatter diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 190, 241-246	5.3	31
21	Texture evolution during plane strain deformation of aluminum. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 1683-1692		33
20	On the asymmetric domain of cubic misorientations. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 67-70		5
19	Investigation of Aluminum Thin Films using Electron Backscatter Diffraction and the New Technique of Orientation Imaging Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 403, 197		
18	Intergranular Cracking in Aluminum Alloys. <i>Canadian Metallurgical Quarterly</i> , 1995 , 34, 203-210	0.9	4
17	The Dependence of Dislocation Density and Cell Size on Crystallographic Orientation in Aluminum. <i>Materials Science Forum</i> , 1994 , 157-162, 1181-1188	0.4	8
16	Evidence for the Existence of a Special Class of Crystallographic Misorientations. <i>Materials Science Forum</i> , 1994 , 157-162, 1175-1180	0.4	2
15	Determination of Softening Kinetics in a Material by Measuring the Evolution of Hot Flow Stress. <i>Journal of Testing and Evaluation</i> , 1994 , 22, 530	1	2

14	Measurement of Interface Damage Heterogeneity. <i>Textures and Microstructures</i> , 1993 , 20, 217-230		2
13	Interface cavitation damage in polycrystalline copper. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 1145-1157		61
12	Measurement and representation of grain-boundary texture. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992 , 23, 2501-2513		26
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