Gregory Rohrer

List of Publications by Year
in descending order

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		18482	31849
324	13,855	62	101
papers	citations	h-index	g-index

331	331	331	9808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grain boundary complexions. Acta Materialia, 2014, 62, 1-48.	7.9	660
2	Photocatalysts with internal electric fields. Nanoscale, 2014, 6, 24-42.	5.6	654
3	Grain boundary energy anisotropy: a review. Journal of Materials Science, 2011, 46, 5881-5895.	3.7	355
4	Distribution of grain boundaries in magnesia as a function of five macroscopic parameters. Acta Materialia, 2003, 51, 3663-3674.	7.9	228
5	Spatial Separation of Photochemical Oxidation and Reduction Reactions on the Surface of Ferroelectric BaTiO3. Journal of Physical Chemistry B, 2001, 105, 8275-8277.	2.6	220
6	Openâ€ core screw dislocations in GaN epilayers observed by scanning force microscopy and highâ€resolution transmission electron microscopy. Applied Physics Letters, 1995, 67, 2284-2286.	3.3	218
7	The distribution of internal interfaces in polycrystals. International Journal of Materials Research, 2004, 95, 197-214.	0.8	198
8	Orientation Dependence of Photochemical Reactions on TiO2Surfaces. Journal of Physical Chemistry B, 1998, 102, 3216-3226.	2.6	194
9	Variant selection and intervariant crystallographic planes distribution in martensite in a Tiâ€“6Alâ€“4V alloy. Acta Materialia, 2014, 80, 478-489.	7.9	190
10	Grain boundary energies in body-centered cubic metals. Acta Materialia, 2015, 88, 346-354.	7.9	185
11	Measuring the five-parameter grain-boundary distribution from observations of planar sections. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1981-1989.	2.2	183
12	Distribution of grain boundaries in aluminum as a function of five macroscopic parameters. Acta Materialia, 2004, 52, 3649-3655.	7.9	181
13	Spatially Selective Photochemical Reduction of Silver on the Surface of Ferroelectric Barium Titanate. Chemistry of Materials, 2001, 13, 241-242.	6.7	179
14	Annealing twin development during recrystallization and grain growth in pure nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 295-303.	5.6	175
15	Anisotropic Photochemical Reactivity of Bulk TiO2 Crystals. Journal of Physical Chemistry B, 1998, 102, 7323-7327.	2.6	173
16	Relative grain boundary area and energy distributions in nickel. Acta Materialia, 2009, 57, 4304-4311.	7.9	161
17	The relative free energies of grain boundaries in magnesia as a function of five macroscopic parameters. Acta Materialia, 2003, 51, 3675-3686.	7.9	155
18	Nucleation Barrier for Volumeâ€Conserving Shape Changes of Faceted Crystals. Journal of the American Ceramic Society, 2000, 83, 214-16.	3.8	150

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19	Five-parameter grain boundary distribution of commercially grain boundary engineered nickel and copper. Acta Materialia, 2008, 56, 2363-2373.	7.9	142
20	Three-Dimensional Characterization of Microstructure by Electron Back-Scatter Diffraction. Annual Review of Materials Research, 2007, 37, 627-658.	9.3	138
21	Structure of the Reduced TiO2(110) Surface Determined by Scanning Tunneling Microscopy. Science, 1990, 250, 1239-1241.	12.6	133
22	Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. Science, 2017, 358, 97-101.	12.6	130
23	Spatially selective visible light photocatalytic activity of TiO2/BiFeO3 heterostructures. Journal of Materials Chemistry, 2011, 21, 4168.	6.7	124
24	The relative grain boundary area and energy distributions in a ferritic steel determined from three-dimensional electron backscatter diffraction maps. Acta Materialia, 2013, 61, 1404-1412.	7.9	118
25	Residualâ€Stress Predictions in Polycrystalline Alumina. Journal of the American Ceramic Society, 2001, 84, 2947-2954.	3.8	117
26	Measuring the Influence of Grainâ€Boundary Misorientation on Thermal Groove Geometry in Ceramic Polycrystals. Journal of the American Ceramic Society, 1999, 82, 1529-1536.	3.8	106
27	Changes in the five-parameter grain boundary character distribution in Î±-brass brought about by iterative thermomechanical processing. Acta Materialia, 2006, 54, 4489-4502.	7.9	105
28	Comparing calculated and measured grain boundary energies in nickel. Acta Materialia, 2010, 58, 5063-5069.	7.9	101
29	Grain Boundary Complexion Transitions. Annual Review of Materials Research, 2020, 50, 465-492.	9.3	96
30	Surface Energy Anisotropy of SrTiO3at 1400Â°C in Air. Journal of the American Ceramic Society, 2003, 86, 1933-1939.	3.8	95
31	Photochemical Reactivity of Titania Films on BaTiO₃Substrates: Origin of Spatial Selectivity. Chemistry of Materials, 2010, 22, 5823-5830.	6.7	93
32	A scanning tunneling microscopy and spectroscopy study of the TiO2â^'x(110) surface. Surface Science, 1992, 278, 146-156.	1.9	91
33	Distribution of Grain Boundaries in SrTiO₃ as a Function of Five Macroscopic Parameters. Journal of the American Ceramic Society, 2004, 87, 670-676.	3.8	90
34	Mechanism for the development of anisotropic grain boundary character distributions during normal grain growth. Acta Materialia, 2009, 57, 1-7.	7.9	90
35	Visible light photochemical activity of heterostructured PbTiO3â€“TiO2 coreâ€“shell particles. Catalysis Science and Technology, 2012, 2, 1945.	4.1	90
36	The distribution of intervariant crystallographic planes in a lath martensite using five macroscopic parameters. Acta Materialia, 2014, 63, 86-98.	7.9	89

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37	INFLUENCE OF INTERFACE ANISOTROPY ON GRAIN GROWTH AND COARSENING. Annual Review of Materials Research, 2005, 35, 99-126.	9.3	87
38	Sparse data structure and algorithm for the phase field method. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 1189-1195.	2.0	87
39	Characterization of the Grainâ€Boundary Character and Energy Distributions of Yttria Using Automated Serial Sectioning and EBSD in the FIB. Journal of the American Ceramic Society, 2009, 92, 1580-1585.	3.8	87
40	Deriving grain boundary character distributions and relative grain boundary energies from three-dimensional EBSD data. Materials Science and Technology, 2010, 26, 661-669.	1.6	86
41	Measuring and Interpreting the Structure of Grainâ€Boundary Networks. Journal of the American Ceramic Society, 2011, 94, 633-646.	3.8	86
42	Five-parameter grain boundary distribution in grain boundary engineered brass. Scripta Materialia, 2005, 52, 633-637.	5.2	84
43	Towards an integrated materials characterization toolbox. Journal of Materials Research, 2011, 26, 1341-1383.	2.6	84
44	Scanning Probe Microscopy of Cleaved Molybdates: Î±-MoO3(010), Mo18O52(100), Mo8O23(010), and Î²-Mo4O11(100). Journal of Solid State Chemistry, 1996, 124, 104-115.	2.9	80
45	Effect of ferrite-to-austenite phase transformation path on the interface crystallographic character distributions in a duplex stainless steel. Acta Materialia, 2018, 145, 196-209.	7.9	80
46	Misorientation texture development during grain growth. Part I: Simulation and experiment. Acta Materialia, 2009, 57, 6102-6112.	7.9	78
47	The origin of photochemical anisotropy in SrTiO3. Topics in Catalysis, 2007, 44, 529-533.	2.8	77
48	Observation of annealing twin nucleation at triple lines in nickel during grain growth. Acta Materialia, 2015, 99, 63-68.	7.9	73
49	Expanding timeâ€“temperature-transformation (TTT) diagrams to interfaces: A new approach for grain boundary engineering. Acta Materialia, 2016, 106, 78-86.	7.9	73
50	Effect of anisotropic grain boundary properties on grain boundary plane distributions during grain growth. Scripta Materialia, 2005, 53, 351-355.	5.2	72
51	Five-parameter intervariant boundary characterization of martensite in commercially pure titanium. Acta Materialia, 2018, 154, 147-160.	7.9	72
52	Distribution and Energies of Grain Boundaries in Magnesia as a Function of Five Degrees of Freedom. Journal of the American Ceramic Society, 2002, 85, 3081-3083.	3.8	70
53	Heterostructured Ceramic Powders for Photocatalytic Hydrogen Production: Nanostructured <scp><scp>TiO</scp></scp>₂ Shells Surrounding Microcrystalline (<scp><scp>Ba</scp></scp>,<scp><scp>Sr</scp></scp>)<scp><scp>TiO</scp></scp>₃ Cores. Journal of the American Ceramic Society, 2012, 95, 1414-1420.	3.8	70
54	Heat affected zone microstructures and their influence on toughness in two microalloyed HSLA steels. Acta Materialia, 2015, 97, 380-391.	7.9	70

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55	Interface Character Distributions in WCâ€“Co Composites. Journal of the American Ceramic Society, 2008, 91, 996-1001.	3.8	69
56	The five parameter grain boundary character distribution of polycrystalline silicon. Journal of Materials Science, 2014, 49, 4938-4945.	3.7	69
57	Habits of Grains in Dense Polycrystalline Solids. Journal of the American Ceramic Society, 2004, 87, 724-726.	3.8	68
58	Validating computed grain boundary energies in fcc metals using the grain boundary character distribution. Acta Materialia, 2011, 59, 5250-5256.	7.9	67
59	Structure Se nsitivity of Photochemical Oxidation and Reduction Reactions on SrTiO₃ Surfaces. Journal of the American Ceramic Society, 2003, 86, 1182-1189.	3.8	66
60	Five-parameter grain boundary analysis of a titanium alloy before and after low-temperature annealing. Scripta Materialia, 2008, 58, 183-186.	5.2	66
61	Grain boundary planes: New dimensions in the grain boundary character distribution. Scripta Materialia, 2006, 54, 1005-1009.	5.2	65
62	Stress hot spots in viscoplastic deformation of polycrystals. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 074005.	2.0	65
63	Grain boundary energy and grain growth in Al films: Comparison of experiments and simulations. Scripta Materialia, 2006, 54, 1059-1063.	5.2	63
64	Composition Dependence of the Photochemical reduction of Ag by Ba_{1â^'x}Sr_xTiO₃. Chemistry of Materials, 2010, 22, 3527-3534.	6.7	63
65	Grain boundary velocity and curvature are not correlated in Ni polycrystals. Science, 2021, 374, 189-193.	12.6	63
66	The Relative Energies of Normally and Abnormally Growing Grain Boundaries in Alumina Displaying Different Complexions. Journal of the American Ceramic Society, 2010, 93, 1796-1802.	3.8	62
67	The five-parameter grain boundary character and energy distributions of a fully austenitic high-manganese steel using three dimensional data. Acta Materialia, 2014, 70, 281-289.	7.9	62
68	Grain boundary segregation in oxide ceramics. Journal of the European Ceramic Society, 2003, 23, 2841-2848.	5.7	61
69	Effect of Crystal and Domain Orientation on the Visible-Light Photochemical Reduction of Ag on BiFeO₃. ACS Applied Materials & Interfaces, 2011, 3, 1562-1567.	8.0	61
70	Synthesis of di- and trivalent Î²â€³-aluminas by ion exchange. Journal of Solid State Chemistry, 1986, 65, 231-240.	2.9	60
71	Photochemical Reactivity of Titania Films on BaTiO₃Substrates: Influence of Titania Phase and Orientation. Chemistry of Materials, 2010, 22, 5831-5837.	6.7	60
72	A scanning probe microscopy study of the (001) surfaces of V2O5 and V6O13. Surface Science, 1996, 367, 87-95.	1.9	59

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73	Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science. Journal of the American Ceramic Society, 2012, 95, 3699-3712.	3.8	59
74	The Distribution of Grain Boundary Planes in Interstitial Free Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 115-124.	2.2	59
75	Consistent representations of and conversions between 3D rotations. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 083501.	2.0	59
76	Extracting Grain Boundary and Surface Energy from Measurement of Triple Junction Geometry. Journal of Materials Science, 1999, 7, 321-337.	1.2	58
77	Geometric and Crystallographic Characterization of WC Surfaces and Grain Boundaries in WC-Co Composites. Journal of Materials Science, 2004, 12, 19-27.	1.2	57
78	The role of grain boundary energy in grain boundary complexion transitions. Current Opinion in Solid State and Materials Science, 2016, 20, 231-239.	11.5	57
79	The five parameter grain boundary character distribution of Î±-Ti determined from three-dimensional orientation data. Acta Materialia, 2016, 111, 22-30.	7.9	56
80	On the crystallographic characteristics of nanobainitic steel. Acta Materialia, 2017, 127, 426-437.	7.9	55
81	Formation of Annealing Twins during Recrystallization and Grain Growth in 304L Austenitic Stainless Steel. Materials Science Forum, 0, 753, 113-116.	0.3	54
82	The equilibrium crystal shape of strontium titanate and its relationship to the grain boundary plane distribution. Acta Materialia, 2015, 82, 32-40.	7.9	54
83	Nucleation Energy Barriers for Volumeâ€Conserving Shape Changes of Crystals with Nonequilibrium Morphologies. Journal of the American Ceramic Society, 2001, 84, 2099-2104.	3.8	53
84	Abnormal grain growth in the Potts model incorporating grain boundary complexion transitions that increase the mobility of individual boundaries. Acta Materialia, 2015, 96, 390-398.	7.9	53
85	Evolution of microstructure and mechanical properties in 2205 duplex stainless steels during additive manufacturing and heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142695.	5.6	53
86	Coarsening of Faceted Crystals. Journal of the American Ceramic Society, 2002, 85, 675-682.	3.8	52
87	The Influence of the Dipolar Field Effect on the Photochemical Reactivity of Sr2Nb2O7 and BaTiO3 Microcrystals. Topics in Catalysis, 2008, 49, 18-23.	2.8	52
88	Piezotronic modulations in electro- and photochemical catalysis. MRS Bulletin, 2018, 43, 946-951.	3.5	52
89	Visible-Light Photochemical Activity of Heterostructured Coreâ€“Shell Materials Composed of Selected Ternary Titanates and Ferrites Coated by TiO₂. ACS Applied Materials & Interfaces, 2013, 5, 5064-5071.	8.0	51
90	Modeling the relationship between microstructural features and the strength of WCâ€“Co composites. International Journal of Refractory Metals and Hard Materials, 2006, 24, 89-100.	3.8	50

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91	The Protonation of MoO3during the Partial Oxidation of Alcohols. Journal of Catalysis, 1998, 173, 219-228.	6.2	49
92	Combinatorial substrate epitaxy: A high-throughput method for determining phase and orientation relationships and its application to BiFeO3/TiO2 heterostructures. Acta Materialia, 2012, 60, 6486-6493.	7.9	49
93	â€œIntroduction to Grains, Phases, and Interfacesâ€”an Interpretation of Microstructure,â€•Trans. AIME, 1948, vol. 175, pp. 15â€“51, by C.S. Smith. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1063-1100.	2.2	48
94	Recrystallization Textures. , 2017, , 431-468.		48
95	Heteroepitaxial growth of TiO2 films by ion-beam sputter deposition. Journal of Crystal Growth, 1996, 166, 779-785.	1.5	47
96	Orientation relationships of copper crystals on c-plane sapphire. Acta Materialia, 2011, 59, 5320-5331.	7.9	47
97	Misorientation Dependence of the Grain Boundary Energy in Magnesia. Journal of Materials Science, 2000, 8, 131-140.	1.2	46
98	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
99	The distribution of grain boundary planes in polycrystals. Jom, 2007, 59, 38-42.	1.9	43
100	Grain Boundary Character Distribution of Nanocrystalline Cu Thin Films Using Stereological Analysis of Transmission Electron Microscope Orientation Maps. Microscopy and Microanalysis, 2013, 19, 111-119.	0.4	43
101	Heterostructured (Ba,Sr)TiO3/TiO2 core/shell photocatalysts: Influence of processing and structure on hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 6948-6959.	7.1	43
102	Thermo-mechanical factors influencing annealing twin development in nickel during recrystallization. Journal of Materials Science, 2015, 50, 5191-5203.	3.7	43
103	An Atomic Force Microscopy Study of the Morphological Evolution of the MoO3(010) Surface during Reduction Reactions. Journal of Catalysis, 1996, 163, 12-17.	6.2	42
104	Crystallographic texture in pulsed laser deposited hydroxyapatite bioceramic coatings. Acta Materialia, 2007, 55, 131-139.	7.9	42
105	The observation of oxygen disorder on the V2O5(001) surface using scanning tunneling microscopy. Surface Science, 1995, 322, 293-300.	1.9	41
106	An atomic force microscopy study of super-dislocation/micropipe complexes on the 6H-SiC(0 0 0 1) growth surface. Journal of Crystal Growth, 1997, 181, 351-362.	1.5	41
107	Polar Domains at the Surface of Centrosymmetric BiVO₄. Chemistry of Materials, 2014, 26, 2774-2776.	6.7	41
108	The five-parameter grain boundary curvature distribution in an austenitic and ferritic steel. Acta Materialia, 2017, 123, 136-145.	7.9	39

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109	Grain boundary character distribution in an additively manufactured austenitic stainless steel. Scripta Materialia, 2021, 192, 115-119.	5.2	39
110	Effect of downscaling nano-copper interconnects on the microstructure revealed by high resolution TEM-orientation-mapping. Nanotechnology, 2012, 23, 135702.	2.6	37
111	Enhanced photochemical activity of Î±-Fe2O3 films supported on SrTiO3 substrates under visible light illumination. Chemical Communications, 2012, 48, 2012.	4.1	37
112	Misorientation texture development during grain growth. Part II: Theory. Acta Materialia, 2010, 58, 14-19.	7.9	36
113	Fiveâ€Parameter Grain Boundary Analysis by 3D EBSD of an Ultra Fine Grained CuZr Alloy Processed by Equal Channel Angular Pressing. Advanced Engineering Materials, 2011, 13, 237-244.	3.5	36
114	Focused ion beam and scanning electron microscopy for 3D materials characterization. MRS Bulletin, 2014, 39, 361-365.	3.5	36
115	Enhanced ionic conductivity in electroceramics by nanoscale enrichment of grain boundaries with high solute concentration. Nanoscale, 2017, 9, 17293-17302.	5.6	36
116	Influence of interface energies on solute partitioning mechanisms in doped aluminas. Acta Materialia, 2010, 58, 5097-5108.	7.9	35
117	Controlling the Relative Areas of Photocathodic and Photoanodic Terraces on the SrTiO₃(111) Surface. Chemistry of Materials, 2016, 28, 5155-5162.	6.7	35
118	The five-parameter grain boundary character distribution of nanocrystalline tungsten. Scripta Materialia, 2013, 69, 413-416.	5.2	34
119	High visible-light photochemical activity of titania decorated on single-wall carbon nanotube aerogels. RSC Advances, 2016, 6, 22285-22294.	3.6	34
120	Experimental Method for Determining Surface Energy Anisotropy and Its Application to Magnesia. Journal of the American Ceramic Society, 2000, 83, 1226-1232.	3.8	33
121	Determining Crystal Habits from Observations of Planar Sections. Journal of the American Ceramic Society, 2002, 85, 2799-2804.	3.8	33
122	Crystallographic Characteristics of Grain Boundaries in Dense Yttria-Stabilized Zirconia. International Journal of Applied Ceramic Technology, 2011, 8, 1218-1228.	2.1	32
123	Influence of grain boundary energy on the nucleation of complexion transitions. Scripta Materialia, 2014, 88, 1-4.	5.2	32
124	Conversion of Diaspore to Corundum: A New Î±â€Alumina Transformation Sequence. Journal of the American Ceramic Society, 1997, 80, 2677-2680.	3.8	31
125	Changes in the Grain Boundary Character and Energy Distributions Resulting from a Complexion Transition in Ca-Doped Yttria. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3532-3538.	2.2	31
126	Tail Departure of Log-Normal Grain Size Distributions in Synthetic Three-Dimensional Microstructures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2810-2822.	2.2	31

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127	Comparison of grain size distributions in a Ni-based superalloy in three and two dimensions using the Saltykov method. Scripta Materialia, 2012, 66, 554-557.	5.2	31
128	Complexion time-temperature-transformation (TTT) diagrams: Opportunities and challenges. Current Opinion in Solid State and Materials Science, 2016, 20, 316-323.	11.5	31
129	Experimental and simulated tunneling spectra of the polar ZnO surfaces. Surface Science, 1994, 318, 379-394.	1.9	30
130	Three-dimensional observations of grain volume changes during annealing of polycrystalline Ni. Acta Materialia, 2019, 167, 40-50.	7.9	30
131	Orientation and Phase Relationships between Titania Films and Polycrystalline BaTiO₃ Substrates as Determined by Electron Backscatter Diffraction Mapping. Journal of the American Ceramic Society, 2010, 93, 2530-2533.	3.8	29
132	Enhanced Photochemical Reactivity at the Ferroelectric Phase Transition in Ba_{1â^'x}Sr_xTiO₃. Journal of the American Ceramic Society, 2010, 93, 4129-4134.	3.8	29
133	Evolution of the Annealing Twin Density during Î³-Supersolvus Grain Growth in the Nickel-Based Superalloy Inconelâ„¢ 718. Metals, 2016, 6, 5.	2.3	29
134	Equilibrium crystal shape of Bi-saturated Cu crystals at 1223K. Acta Materialia, 2005, 53, 4057-4064.	7.9	28
135	â€œIntroduction to Grains, Phases, and Interfacesâ€”an Interpretation of Microstructure,â€• Trans. AIME, 1948, vol. 175, pp. 15â€“51, by C.S. Smith. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 457-494.	2.1	28
136	Textures and grain boundary character distributions in a cold rolled and annealed Pbâ€“Ca based alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3695-3706.	5.6	28
137	The Morphological Evolution of the MoO3(010) Surface during Reactions in Methanolâ€“Air Mixtures. Journal of Catalysis, 1998, 180, 270-278.	6.2	27
138	Mesoscale Simulation of the Evolution of the Grain Boundary Character Distribution. Materials Science Forum, 2004, 467-470, 1063-1068.	0.3	27
139	The influence of residual thermal stresses on the mechanical properties of multilayer Î±-Al2O3/TiCxN1â^'x coatings on WC/Co cutting tools. Surface and Coatings Technology, 2013, 215, 119-126.	4.8	27
140	Influence of <scp><scp>Y</scp></scp> and <scp><scp>La</scp></scp> Additions on Grain Growth and the Grainâ€Boundary Character Distribution of Alumina. Journal of the American Ceramic Society, 2014, 97, 622-630.	3.8	27
141	Identification of prismatic slip bands in 4H SiC boules grown by physical vapor transport. Journal of Electronic Materials, 2000, 29, L5-L8.	2.2	26
142	The most frequent interfaces in olivine aggregates: the GBCD and its importance for grain boundary related processes. Contributions To Mineralogy and Petrology, 2015, 170, 1.	3.1	26
143	Imaging surface/crystallographic shear plane intersections on the Mo18O52(100) surface using scanning tunneling microscopy. Surface Science, 1993, 292, 261-266.	1.9	25
144	Plastic Deformation and Residual Stresses in SiC Boules Grown by PVT. Materials Science Forum, 2000, 338-342, 67-70.	0.3	25

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145	Surface engineering along the close-packed direction of SrTiO3. Journal of Crystal Growth, 2001, 225, 178-182.	1.5	25
146	The temperature dependence of the relative grainâ€boundary energy of yttriaâ€doped alumina. Journal of the American Ceramic Society, 2017, 100, 783-791.	3.8	25
147	Competitive Growth of Scrutinyite (Î±-PbO₂) and Rutile Polymorphs of SnO₂ on All Orientations of Columbite CoNb₂O₆ Substrates. Crystal Growth and Design, 2017, 17, 3929-3939.	3.0	25
148	Brightness degradation in electroluminescent ZnS:Cu. Solid State Ionics, 1999, 123, 19-24.	2.7	24
149	Topological characteristics of plane sections of polycrystals. Acta Materialia, 2010, 58, 3805-3814.	7.9	24
150	Grain boundary plane distributions in aluminas evolving by normal and abnormal grain growth and displaying different complexions. International Journal of Materials Research, 2010, 101, 50-56.	0.3	24
151	Combinatorial substrate epitaxy: a new approach to growth of complex metastable compounds. CrystEngComm, 2013, 15, 5434.	2.6	24
152	On the grain boundary network characteristics in a martensitic Tiâ€“6Alâ€“4V alloy. Journal of Materials Science, 2020, 55, 15299-15321.	3.7	24
153	Tunneling spectroscopic analysis of optically active wide band-gap semiconductors. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 551.	1.6	23
154	Modeling the Influence of Orientation Texture on the Strength of WC?Co Composites. Journal of the American Ceramic Society, 2007, 90, 199-204.	3.8	23
155	The orientation dependence of the photochemical reactivity of BiVO₄. Journal of Materials Chemistry A, 2015, 3, 2370-2377.	10.3	23
156	The role of ceramic and glass science research in meeting societal challenges: Report from an <scp>NSF</scp>â€sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	3.8	23
157	Anti-thermal grain growth in SrTiO3: Coupled reduction of the grain boundary energy and grain growth rate constant. Acta Materialia, 2018, 149, 11-18.	7.9	23
158	Effect of Segregating Impurities on the Grainâ€Boundary Character Distribution of Magnesium Oxide. Journal of the American Ceramic Society, 2009, 92, 3044-3051.	3.8	22
159	The Role of Thermomechanical Routes on the Distribution of Grain Boundary and Interface Plane Orientations in Transformed Microstructures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2781-2790.	2.2	22
160	The grain boundary character distribution of highly twinned nanocrystalline thin film aluminum compared to bulk microcrystalline aluminum. Journal of Materials Science, 2017, 52, 9819-9833.	3.7	22
161	Electrical Properties of Individual Zinc Oxide Grain Boundaries Determined by Spatially Resolved Tunneling Spectroscopy. Journal of the American Ceramic Society, 1990, 73, 3026-3032.	3.8	21
162	The geometric and electronic structure of the ZnO(0001Ì„) surface. Surface Science, 1991, 247, L195-L200.	1.9	21

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163	Termination layer variations on the cleaved (0001) surface determined by scanning tunneling microscopy. Surface Science, 1993, 291, 395-401.	1.9	21
164	Formation of thermal decomposition cavities in physical vapor transport of silicon carbide. Journal of Electronic Materials, 2000, 29, 347-352.	2.2	21
165	Experimental Evidence for the Development of Bimodal Grain Size Distributions by the Nucleation-Limited Coarsening Mechanism. Journal of the American Ceramic Society, 2007, 90, 211-216.	3.8	21
166	Microstructure design of lead-free piezoelectric ceramics. Journal of the European Ceramic Society, 2013, 33, 313-326.	5.7	21
167	Grain-boundary character distribution and correlations with electrical and optoelectronic properties of CuInSe2 thin films. Acta Materialia, 2016, 118, 244-252.	7.9	21
168	Grain boundary character distribution in electroplated nanotwinned copper. Journal of Materials Science, 2017, 52, 4070-4085.	3.7	21
169	High-throughput measurement of the influence of pH on hydrogen production from BaTiO3/TiO2 core/shell photocatalysts. Applied Catalysis B: Environmental, 2020, 269, 118750.	20.2	21
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