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	Statistical behaviour of interfaces subjected to curvature flow and torque effects applied to microstructural evolutions. Acta Materialia, 2022, 222, 117459.	7.9	13
2	Anisotropic grain boundary area and energy distributions in tungsten. Scripta Materialia, 2022, 209, 114384.	5.2	12
3	Grain boundary energies in yttriaâ€stabilized zirconia. Journal of the American Ceramic Society, 2022, 105, 2925-2931.	3.8	4
4	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
5	Comparison of simulated and measured grain volume changes during grain growth. Physical Review Materials, 2022, 6, .	2.4	3
6	Microstructure evolution of 316L stainless steel during solid-state additive friction stir deposition. Philosophical Magazine, 2022, 102, 618-633.	1.6	20
7	Influence of particle size and shape on the rate of hydrogen produced by Alâ€doped SrTiO₃ photocatalysts. Journal of the American Ceramic Society, 2022, 105, 5336-5346.	3.8	6
8	The influence of parent austenite characteristics on the intervariant boundary network in a lath martensitic steel. Journal of Materials Science, 2022, 57, 8904-8923.	3.7	5
9	Influence of orientation and ferroelectric domains on the photochemical reactivity of La2Ti2O7. Journal of the European Ceramic Society, 2021, 41, 319-325.	5.7	2
10	Grain boundary character distribution in an additively manufactured austenitic stainless steel. Scripta Materialia, 2021, 192, 115-119.	5.2	39
11	Epitaxial Phase Stability of SrMnO_{3â€“x} Films on Polycrystalline Perovskite Substrates. Crystal Growth and Design, 2021, 21, 4547-4555.	3.0	2
12	The role of thermomechanical processing routes on the grain boundary network of martensite in Tiâ€“6Alâ€“4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 822, 141665.	5.6	5
13	On the grain boundary network characteristics in a dual phase steel. Journal of Materials Science, 2021, 56, 19674-19686.	3.7	3
14	Grain boundary energy function for Î± iron. Materialia, 2021, 19, 101186.	2.7	20
15	The grain boundary stiffness and its impact on equilibrium shapes and boundary migration: Analysis of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si43.svg"><mml:mstyle mathvariant="normal"><mml:mi>Î£</mml:mi></mml:mstyle></mml:math>5, 7, 9, and 11 boundaries in Ni. Acta Materialia, 2021, 218, 117220.	7.9	16
16	Effect of manganese on the grain boundary network of lath martensite in precipitation hardenable stainless steels. Journal of Alloys and Compounds, 2021, 886, 161333.	5.5	9
17	Grain boundary velocity and curvature are not correlated in Ni polycrystals. Science, 2021, 374, 189-193.	12.6	63
18	High-Throughput Study of Trivalent Doped SrTiO3 for Photocatalytic Overall Water Splitting. ECS Meeting Abstracts, 2021, MA2021-02, 1307-1307.	0.0	0

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19	Combinatorial substrate epitaxy investigation of polytypic growth of AEMnO₃ (AEÂ=ÂCa, Sr). Journal of the American Ceramic Society, 2020, 103, 2225-2234.	3.8	4
20	Five-parameter grain boundary characterisation of randomly textured AZ31 Mg alloy. Philosophical Magazine, 2020, 100, 456-466.	1.6	9
21	Habit planes of twins in a deformed Mg alloy determined from three-dimensional microstructure analysis. Materials Characterization, 2020, 159, 110014.	4.4	7
22	The role of phase transformation mechanism on the grain boundary network in a commercially pure titanium. Materials Characterization, 2020, 169, 110640.	4.4	11
23	On the grain boundary network characteristics in a martensitic Tiâ€“6Alâ€“4V alloy. Journal of Materials Science, 2020, 55, 15299-15321.	3.7	24
24	Influence of step structure on preferred orientation relationships of Ag deposited on Ni(111). Acta Materialia, 2020, 200, 287-296.	7.9	1
25	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
26	New insights into the interface characteristics of a duplex stainless steel subjected to accelerated ferrite-to-austenite transformation. Journal of Materials Science, 2020, 55, 5322-5339.	3.7	17
27	Influence of pH and Surface Orientation on the Photochemical Reactivity of SrTiO₃. ACS Applied Materials & Interfaces, 2020, 12, 23617-23626.	8.0	12
28	Grain Boundary Complexion Transitions. Annual Review of Materials Research, 2020, 50, 465-492.	9.3	96
29	Influence of surface orientation on the photochemical reactivity of CaTiO 3. Journal of the American Ceramic Society, 2020, 103, 4498-4506.	3.8	2
30	The Facet Structure and Photochemical Reactivity of Arbitrarily Oriented Strontium Titanate Surfaces. Advanced Materials Interfaces, 2019, 6, 1900731.	3.7	8
31	Three-dimensional observations of grain volume changes during annealing of polycrystalline Ni. Acta Materialia, 2019, 167, 40-50.	7.9	30
32	Metastable monoclinic [110] layered perovskite Dy₂Ti₂O₇ thin films for ferroelectric applications. RSC Advances, 2019, 9, 19895-19904.	3.6	7
33	Grain boundary inter-connections of â^5 boundaries in a high purity iron with a uniform microstructure. Scripta Materialia, 2019, 170, 62-66.	5.2	10
34	Grain boundary curvatures in polycrystalline SrTiO 3 : Dependence on grain size, topology, and crystallography. Journal of the American Ceramic Society, 2019, 102, 7003-7014.	3.8	10
35	Determining grain boundary energies from triple junction geometries without discretizing the five-parameter space. Acta Materialia, 2019, 166, 126-134.	7.9	10
36	Growth and orientation relationships of Ni and Cu films annealed on slightly miscut <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mspace width="5.0pt") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td (/><mml	1	5

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37	Atomistic simulations of grain boundary energies in austenitic steel. Journal of Materials Science, 2019, 54, 5570-5583.	3.7	20
38	Importance of outliers: A three-dimensional study of coarsening in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -phase iron. Physical Review Materials, 2019, 3, .	2.4	13
39	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
40	Three-dimensional geometrical and topological characteristics of grains in conventional and grain boundary engineered 316L stainless steel. Micron, 2018, 109, 58-70.	2.2	4
41	Five-parameter crystallographic characteristics of the interfaces formed during ferrite to austenite transformation in a duplex stainless steel. Philosophical Magazine, 2018, 98, 1284-1306.	1.6	14
42	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
43	Quantitative differences in the Y grain boundary excess at boundaries delimiting large and small grains in Y doped Al2O3. Journal of the European Ceramic Society, 2018, 38, 1829-1835.	5.7	7
44	Influence of the Magnitude of Ferroelectric Domain Polarization on the Photochemical Reactivity of BaTiO₃. ACS Applied Materials & Interfaces, 2018, 10, 41450-41457.	8.0	13
45	Piezotronic modulations in electro- and photochemical catalysis. MRS Bulletin, 2018, 43, 946-951.	3.5	52
46	Using Three-Dimensional Electron Backscatter Diffraction Data to Measure Grain Boundary Properties in Metals and Ceramics. Microscopy and Microanalysis, 2018, 24, 810-811.	0.4	0
47	Three-dimensional study of twin boundaries in conventional and grain boundary-engineered 316L stainless steels. Journal of Materials Research, 2018, 33, 1742-1754.	2.6	3
48	Five-parameter intervariant boundary characterization of martensite in commercially pure titanium. Acta Materialia, 2018, 154, 147-160.	7.9	72
49	The effect of pH on the photochemical reactivity of BaTiO3. Surface Science, 2018, 675, 83-90.	1.9	9
50	Grain boundary inter-connections in polycrystalline aluminum with random orientation. Materials Characterization, 2018, 144, 411-423.	4.4	15
51	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
52	On the crystallographic characteristics of nanobainitic steel. Acta Materialia, 2017, 127, 426-437.	7.9	55
53	Nano-Photoelectrochemical Cell Arrays with Spatially Isolated Oxidation and Reduction Channels. ACS Nano, 2017, 11, 2150-2159.	14.6	18
54	Static Softening in a Ni-30Fe Austenitic Model Alloy After Hot Deformation: Microstructure and Texture Evolution. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 855-867.	2.2	11

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55	Buried Charge at the TiO₂/SrTiO₃ (111) Interface and Its Effect on Photochemical Reactivity. ACS Applied Materials & Interfaces, 2017, 9, 7843-7851.	8.0	15
56	Controlling the termination and photochemical reactivity of the SrTiO₃(110) surface. Physical Chemistry Chemical Physics, 2017, 19, 7910-7918.	2.8	14
57	Pulsed laser deposition of Sr2FeMoO6thin films grown on spark plasma sintered Sr2MgWO6substrates. Journal Physics D: Applied Physics, 2017, 50, 235301.	2.8	12
58	Spatial selectivity of photodeposition reactions on polar surfaces of centrosymmetric ferroelastic Î³-WO₃. Journal of Materials Chemistry A, 2017, 5, 8261-8266.	10.3	15
59	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
60	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
61	Determination of the five parameter grain boundary character distribution of nanocrystalline alpha-zirconium thin films using transmission electron microscopy. Acta Materialia, 2017, 130, 164-176.	7.9	19
62	Grain boundary character distribution in electroplated nanotwinned copper. Journal of Materials Science, 2017, 52, 4070-4085.	3.7	21
63	Enhanced ionic conductivity in electroceramics by nanoscale enrichment of grain boundaries with high solute concentration. Nanoscale, 2017, 9, 17293-17302.	5.6	36
64	Three-dimensional characteristics of the grain boundary networks of conventional and grain boundary engineered 316L stainless steel. Materials Characterization, 2017, 133, 60-69.	4.4	9
65	Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. Science, 2017, 358, 97-101.	12.6	130
66	Control of Recrystallization. , 2017, , 527-567.		8
67	Spatially selective photochemical activity on surfaces of ferroelastics with local polarization. Semiconductor Science and Technology, 2017, 32, 103001.	2.0	6
68	The five-parameter grain boundary curvature distribution in an austenitic and ferritic steel. Acta Materialia, 2017, 123, 136-145.	7.9	39
69	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
70	The inter-connections of â˜ 3 boundaries in pure iron. Scripta Materialia, 2017, 128, 18-22.	5.2	15
71	Atomistic simulations of grain boundary energies in tungsten. Materials Letters, 2017, 186, 116-118.	2.6	19
72	Correlated Electron Microscopy across Length Scales to Elucidate Structural, Electrical and Chemical Properties of Oxide Grain Boundaries. Microscopy and Microanalysis, 2017, 23, 334-335.	0.4	0

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73	The Structure and Energy of Grain Boundaries. , 2017, , 109-143.		7
74	Continuous Recrystallization During and After Large Strain Deformation. , 2017, , 509-526.		6
75	Computer Modeling and Simulation ofÂAnnealing. , 2017, , 569-604.		1
76	The Deformed State. , 2017, , 13-79.		4
77	Deformation Textures. , 2017, , 81-107.		1
78	Mobility and Migration of Boundaries. , 2017, , 145-197.		9
79	Recovery After Deformation. , 2017, , 199-244.		7
80	Recrystallization of Single-Phase Alloys. , 2017, , 245-304.		13
81	Recrystallization of Ordered Materials. , 2017, , 305-320.		2
82	Grain Growth Following Recrystallization. , 2017, , 375-429.		8
83	Recrystallization Textures. , 2017, , 431-468.		48
84	Recrystallization of Two-Phase Alloys. , 2017, , 321-359.		8
85	The Growth and Stability of Cellular Microstructures. , 2017, , 361-373.		0
86	Hot Deformation and Dynamic Restoration. , 2017, , 469-508.		8
87	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
88	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
89	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
90	Complexion time-temperature-transformation (TTT) diagrams: Opportunities and challenges. Current Opinion in Solid State and Materials Science, 2016, 20, 316-323.	11.5	31

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91	Distributions of Grain Boundary Normals in the Laboratory Reference Frame. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2591-2595.	2.2	1
92	Multidomain simulations of coated ferroelectrics exhibiting spatially selective photocatalytic activity with high internal quantum efficiencies. Journal of Materials Chemistry A, 2016, 4, 16085-16093.	10.3	18
93	Grain-boundary character distribution and correlations with electrical and optoelectronic properties of CuInSe2 thin films. Acta Materialia, 2016, 118, 244-252.	7.9	21
94	Controlling the Relative Areas of Photocathodic and Photoanodic Terraces on the SrTiO₃(111) Surface. Chemistry of Materials, 2016, 28, 5155-5162.	6.7	35
95	Grain boundary plane distributions in a cold rolled and annealed high purity iron. Materials Characterization, 2016, 122, 6-13.	4.4	3
96	The Orientation Dependence of the Photochemical Activity of Î±â€Fe 2 O 3. Journal of the American Ceramic Society, 2016, 99, 2428-2435.	3.8	9
97	Computational Model of Domain-Specific Reactivity on Coated Ferroelectric Photocatalysts. Journal of Physical Chemistry C, 2016, 120, 12673-12684.	3.1	15
98	Expanding timeâ€“temperature-transformation (TTT) diagrams to interfaces: A new approach for grain boundary engineering. Acta Materialia, 2016, 106, 78-86.	7.9	73
99	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
100	High visible-light photochemical activity of titania decorated on single-wall carbon nanotube aerogels. RSC Advances, 2016, 6, 22285-22294.	3.6	34
101	Ferroelastic domains improve photochemical reactivity: a comparative study of monoclinic and tetragonal (Bi_{1â^'0.5x}Na_{0.5x})(V_{1â^'x}Mo_x)O₄ ceramics. Journal of Materials Chemistry A, 2016, 4, 2951-2959.	10.3	19
102	Understanding materials microstructure and behavior at the mesoscale. MRS Bulletin, 2015, 40, 951-960.	3.5	20
103	Preferential orientation relationships in Ca2MnO4 Ruddlesden-Popper thin films. Journal of Applied Physics, 2015, 118, .	2.5	6
104	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
105	Thermo-mechanical factors influencing annealing twin development in nickel during recrystallization. Journal of Materials Science, 2015, 50, 5191-5203.	3.7	43
106	Grain size dependence of the twin length fraction in nanocrystalline Cu thin films via transmission electron microscopy based orientation mapping. Journal of Materials Research, 2015, 30, 528-537.	2.6	13
107	Consistent representations of and conversions between 3D rotations. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 083501.	2.0	59
108	Grain boundary energies in body-centered cubic metals. Acta Materialia, 2015, 88, 346-354.	7.9	185

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109	Heat affected zone microstructures and their influence on toughness in two microalloyed HSLA steels. Acta Materialia, 2015, 97, 380-391.	7.9	70
110	Orientation relationships of copper crystals on sapphire (1 0 1Ì„ 0) m-plane and (1 0 1Ì„ 2) r-plane substrates. Journal of Crystal Growth, 2015, 418, 57-63.	1.5	8
111	Importance of interfacial step alignment in hetero-epitaxy and orientation relationships: the case of Ag equilibrated on Ni substrates. Part 2 experiments. Journal of Materials Science, 2015, 50, 5276-5285.	3.7	11
112	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
113	Observation of annealing twin nucleation at triple lines in nickel during grain growth. Acta Materialia, 2015, 99, 63-68.	7.9	73
114	The orientation dependence of the photochemical reactivity of BiVO₄. Journal of Materials Chemistry A, 2015, 3, 2370-2377.	10.3	23
115	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
116	Focused ion beam and scanning electron microscopy for 3D materials characterization. MRS Bulletin, 2014, 39, 361-365.	3.5	36
117	Microstructural Characterization of Hard Ceramics. , 2014, , 265-284.		2
118	Growth of Ca2MnO4 Ruddlesden-Popper structured thin films using combinatorial substrate epitaxy. Journal of Applied Physics, 2014, 116, .	2.5	12
119	Grain Boundary Plane Distributions in a Hot Rolled 5A06 Aluminum Alloy. Advanced Engineering Materials, 2014, 16, 1105-1110.	3.5	5
120	Variant selection and intervariant crystallographic planes distribution in martensite in a Tiâ€“6Alâ€“4V alloy. Acta Materialia, 2014, 80, 478-489.	7.9	190
121	Photocatalysts with internal electric fields. Nanoscale, 2014, 6, 24-42.	5.6	654
122	Grain boundary complexions. Acta Materialia, 2014, 62, 1-48.	7.9	660
123	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
124	Three-dimensional digital approximations of grain boundary networks in polycrystals. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 025017.	2.0	10
125	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
126	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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127	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
128	Crystallography of Interfaces and Grain Size Distributions in <scp><scp>Sr</scp></scp>â€Ðoped <scp><scp>LaMnO</scp></scp>₃. Journal of the American Ceramic Society, 2014, 97, 2623-2630.	3.8	7
129	Influence of grain boundary energy on the nucleation of complexion transitions. Scripta Materialia, 2014, 88, 1-4.	5.2	32
130	The five parameter grain boundary character distribution of polycrystalline silicon. Journal of Materials Science, 2014, 49, 4938-4945.	3.7	69
131	Polar Domains at the Surface of Centrosymmetric BiVO₄. Chemistry of Materials, 2014, 26, 2774-2776.	6.7	41
132	Modeling the interface area aspect ratio of carbide grains in WCâ€“Co composites. International Journal of Refractory Metals and Hard Materials, 2014, 44, 7-11.	3.8	13
133	Effect of plastic deformation on the Î£2 grain boundary plane distribution in WCâ€“Co cemented carbides. International Journal of Refractory Metals and Hard Materials, 2014, 47, 38-43.	3.8	9
134	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
135	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
136	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
137	The five-parameter grain boundary character distribution of nanocrystalline tungsten. Scripta Materialia, 2013, 69, 413-416.	5.2	34
138	Combinatorial substrate epitaxy: a new approach to growth of complex metastable compounds. CrystEngComm, 2013, 15, 5434.	2.6	24
139	Copper crystals on the (11 $$f{ar{2}}$$ 0) sapphire plane: orientation relationships, triple line ridges and interface shape equilibrium. Journal of Materials Science, 2013, 48, 3013-3026.	3.7	18
140	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
141	Eutaxial growth of hematite Fe2O3 films on perovskite SrTiO3 polycrystalline substrates. Thin Solid Films, 2013, 548, 220-224.	1.8	17
142	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
143	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
144	Microstructure design of lead-free piezoelectric ceramics. Journal of the European Ceramic Society, 2013, 33, 313-326.	5.7	21

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145	Effect of densification mechanism on the Î£2 grain boundary plane distribution in WCâ€“Co composites. Materials Letters, 2013, 92, 86-89.	2.6	14
146	Evolution of Microstructure in Pure Nickel during Processing for Grain Boundary Engineering. Materials Science Forum, 2013, 753, 97-100.	0.3	4
147	Synthesizing Annealing Twins in Three-Dimensional Voxel-Based Microstructures. Materials Science Forum, 2012, 715-716, 549-549.	0.3	0
148	Role of Inclination Dependent Anisotropy on Boundary Populations during Two-Dimensional Grain Growth. Materials Science Forum, 2012, 715-716, 697-702.	0.3	0
149	Measuring Relative Grain-Boundary Energies in Block-Copolymer Microstructures. Physical Review Letters, 2012, 108, 107801.	7.8	15
150	Effect of downscaling nano-copper interconnects on the microstructure revealed by high resolution TEM-orientation-mapping. Nanotechnology, 2012, 23, 135702.	2.6	37
151	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
152	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
153	Enhanced photochemical activity of Î±-Fe2O3 films supported on SrTiO3 substrates under visible light illumination. Chemical Communications, 2012, 48, 2012.	4.1	37
154	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
155	Visible light photochemical activity of heterostructured PbTiO3â€“TiO2 coreâ€“shell particles. Catalysis Science and Technology, 2012, 2, 1945.	4.1	90
156	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
157	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
158	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
159	GRAIN BOUNDARY PLANE DISTRIBUTIONS IN 304 STEEL ANNEALED AT HIGH TEMPERATURE AFTER A PARALLEL PROCESSING OF MULTIPLE FORGING AND DIRECT ROLLING. Jinshu Xuebao/Acta Metallurgica Sinica, 2012, 48, 895.	0.3	3
160	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
161	Spatially selective visible light photocatalytic activity of TiO2/BiFeO3 heterostructures. Journal of Materials Chemistry, 2011, 21, 4168.	6.7	124
162	Validating computed grain boundary energies in fcc metals using the grain boundary character distribution. Acta Materialia, 2011, 59, 5250-5256.	7.9	67

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163	Crystallographic Characteristics of Grain Boundaries in Dense Yttria-Stabilized Zirconia. International Journal of Applied Ceramic Technology, 2011, 8, 1218-1228.	2.1	32
164	Measuring and Interpreting the Structure of Grainâ€Boundary Networks. Journal of the American Ceramic Society, 2011, 94, 633-646.	3.8	86
165	The Orientation Distributions of Lines, Surfaces, and Interfaces around Threeâ€Phase Boundaries in Solid Oxide Fuel Cell Cathodes. Journal of the American Ceramic Society, 2011, 94, 4045-4051.	3.8	20
166	Orientation relationships of copper crystals on c-plane sapphire. Acta Materialia, 2011, 59, 5320-5331.	7.9	47
167	Grain boundary energy anisotropy: a review. Journal of Materials Science, 2011, 46, 5881-5895.	3.7	355
168	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
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