Gregory Rohrer

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.

322 papers	11,254 citations	57 h-index	92 g-index
331 ext. papers	12,418 ext. citations	5 avg, IF	6.71 L-index

#	Paper	IF	Citations
322	Grain boundary energies in yttria-stabilized zirconia. *Journal of the American Ceramic Society*, **2022**, 105, 2925-2931	3.8	0
321	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	5.3	1
320	Anisotropic grain boundary area and energy distributions in tungsten. *Scripta Materialia*, **2022**, 209, 114384	3.8	3
319	Comparison of simulated and measured grain volume changes during grain growth. *Physical Review Materials*, **2022**, 6,	3.2	1
318	Microstructure evolution of 316L stainless steel during solid-state additive friction stir deposition. *Philosophical Magazine*, **2022**, 102, 618-633	1.6	3
317	The influence of parent austenite characteristics on the intervariant boundary network in a lath martensitic steel. *Journal of Materials Science*, **2022**, 57, 8904-8923	4.3	0
316	High-Throughput Study of Trivalent Doped SrTiO3 for Photocatalytic Overall Water Splitting. *ECS Meeting Abstracts*, **2021**, MA2021-02, 1307-1307	0	
315	Grain boundary velocity and curvature are not correlated in Ni polycrystals. *Science*, **2021**, 374, 189-193	33.3	13
314	Statistical behaviour of interfaces subjected to curvature flow and torque effects applied to microstructural evolutions. *Acta Materialia*, **2021**, 222, 117459	8.4	1
313	Epitaxial Phase Stability of $SrMnO_{3-\delta}$ Films on Polycrystalline Perovskite Substrates. *Crystal Growth and Design*, **2021**, 21, 4547-4555	3.5	
312	Influence of orientation and ferroelectric domains on the photochemical reactivity of La2Ti2O7. *Journal of the European Ceramic Society*, **2021**, 41, 319-325	6	1
311	Grain boundary character distribution in an additively manufactured austenitic stainless steel. *Scripta Materialia*, **2021**, 192, 115-119	5.6	14
310	The role of thermomechanical processing routes on the grain boundary network of martensite in Ti_6Al_4V. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 822, 141665	5.3	1
309	Grain boundary energy function for □ron. *Materialia*, **2021**, 19, 101186	3.2	3
308	The grain boundary stiffness and its impact on equilibrium shapes and boundary migration: Analysis of the Σ5, 7, 9, and 11 boundaries in Ni. *Acta Materialia*, **2021**, 218, 117220	8.4	5
307	Effect of manganese on the grain boundary network of lath martensite in precipitation hardenable stainless steels. *Journal of Alloys and Compounds*, **2021**, 886, 161333	5.7	1
306	Influence of step structure on preferred orientation relationships of Ag deposited on Ni(111). *Acta Materialia*, **2020**, 200, 287-296	8.4	1

305	High-throughput measurement of the influence of pH on hydrogen production from BaTiO3/TiO2 core/shell photocatalysts. *Applied Catalysis B: Environmental*, **2020**, 269, 118750	21.8	15
304	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	4.3	6
303	Influence of pH and Surface Orientation on the Photochemical Reactivity of SrTiO. *ACS Applied Materials & Interfaces*, **2020**, 12, 23617-23626	9.5	5
302	Grain Boundary Complexion Transitions. *Annual Review of Materials Research*, **2020**, 50, 465-492	12.8	39
301	Combinatorial substrate epitaxy investigation of polytypic growth of AEMnO3 (AE□Ca, Sr). *Journal of the American Ceramic Society*, **2020**, 103, 2225-2234	3.8	2
300	Five-parameter grain boundary characterisation of randomly textured AZ31 Mg alloy. *Philosophical Magazine*, **2020**, 100, 456-466	1.6	4
299	Habit planes of twins in a deformed Mg alloy determined from three-dimensional microstructure analysis. *Materials Characterization*, **2020**, 159, 110014	3.9	5
298	The role of phase transformation mechanism on the grain boundary network in a commercially pure titanium. *Materials Characterization*, **2020**, 169, 110640	3.9	4
297	On the grain boundary network characteristics in a martensitic Ti□Al□V alloy. *Journal of Materials Science*, **2020**, 55, 15299-15321	4.3	8
296	Influence of surface orientation on the photochemical reactivity of CaTiO3. *Journal of the American Ceramic Society*, **2020**, 103, 4498-4506	3.8	1
295	Three-dimensional observations of grain volume changes during annealing of polycrystalline Ni. *Acta Materialia*, **2019**, 167, 40-50	8.4	20
294	Metastable monoclinic [110] layered perovskite DyTiO thin films for ferroelectric applications.. *RSC Advances*, **2019**, 9, 19895-19904	3.7	4
293	Grain boundary inter-connections of □ boundaries in a high purity iron with a uniform microstructure. *Scripta Materialia*, **2019**, 170, 62-66	5.6	7
292	Grain boundary curvatures in polycrystalline SrTiO3: Dependence on grain size, topology, and crystallography. *Journal of the American Ceramic Society*, **2019**, 102, 7003-7014	3.8	7
291	The Facet Structure and Photochemical Reactivity of Arbitrarily Oriented Strontium Titanate Surfaces. *Advanced Materials Interfaces*, **2019**, 6, 1900731	4.6	4
290	Importance of outliers: A three-dimensional study of coarsening in □phase iron. *Physical Review Materials*, **2019**, 3,	3.2	8
289	Determining grain boundary energies from triple junction geometries without discretizing the five-parameter space. *Acta Materialia*, **2019**, 166, 126-134	8.4	6
288	Growth and orientation relationships of Ni and Cu films annealed on slightly miscut (11□02) r-sapphire substrates. *Journal of Crystal Growth*, **2019**, 508, 24-33	1.6	2

287	Atomistic simulations of grain boundary energies in austenitic steel. *Journal of Materials Science*, **2019**, 54, 5570-5583	4.3	11
286	Anti-thermal grain growth in SrTiO3: Coupled reduction of the grain boundary energy and grain growth rate constant. *Acta Materialia*, **2018**, 149, 11-18	8.4	18
285	Three-dimensional geometrical and topological characteristics of grains in conventional and grain boundary engineered 316L stainless steel. *Micron*, **2018**, 109, 58-70	2.3	2
284	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	11
283	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	8.4	55
282	The effect of pH on the photochemical reactivity of BaTiO3. *Surface Science*, **2018**, 675, 83-90	1.8	7
281	Grain boundary inter-connections in polycrystalline aluminum with random orientation. *Materials Characterization*, **2018**, 144, 411-423	3.9	10
280	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	6	6
279	Influence of the Magnitude of Ferroelectric Domain Polarization on the Photochemical Reactivity of BaTiO. *ACS Applied Materials & Interfaces*, **2018**, 10, 41450-41457	9.5	12
278	Piezotronic modulations in electro- and photochemical catalysis. *MRS Bulletin*, **2018**, 43, 946-951	3.2	35
277	Using Three-Dimensional Electron Backscatter Diffraction Data to Measure Grain Boundary Properties in Metals and Ceramics. *Microscopy and Microanalysis*, **2018**, 24, 810-811	0.5	
276	Three-dimensional study of twin boundaries in conventional and grain boundary-engineered 316L stainless steels. *Journal of Materials Research*, **2018**, 33, 1742-1754	2.5	3
275	Five-parameter intervariant boundary characterization of martensite in commercially pure titanium. *Acta Materialia*, **2018**, 154, 147-160	8.4	49
274	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	2.3	12
273	On the crystallographic characteristics of nanobainitic steel. *Acta Materialia*, **2017**, 127, 426-437	8.4	32
272	Nano-Photoelectrochemical Cell Arrays with Spatially Isolated Oxidation and Reduction Channels. *ACS Nano*, **2017**, 11, 2150-2159	16.7	16
271	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	2.3	5
270	Buried Charge at the TiO/SrTiO (111) Interface and Its Effect on Photochemical Reactivity. *ACS Applied Materials & Interfaces*, **2017**, 9, 7843-7851	9.5	9

269	Controlling the termination and photochemical reactivity of the SrTiO(110) surface. *Physical Chemistry Chemical Physics*, **2017**, 19, 7910-7918	3.6	12
268	Pulsed laser deposition of Sr2FeMoO6thin films grown on spark plasma sintered Sr2MgWO6substrates. *Journal Physics D: Applied Physics*, **2017**, 50, 235301	3	9
267	Spatial selectivity of photodeposition reactions on polar surfaces of centrosymmetric ferroelastic WO3. *Journal of Materials Chemistry A*, **2017**, 5, 8261-8266	13	11
266	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. *Journal of the American Ceramic Society*, **2017**, 100, 1777-1803	3.8	17
265	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	4.3	12
264	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	8.4	15
263	Grain boundary character distribution in electroplated nanotwinned copper. *Journal of Materials Science*, **2017**, 52, 4070-4085	4.3	13
262	Enhanced ionic conductivity in electroceramics by nanoscale enrichment of grain boundaries with high solute concentration. *Nanoscale*, **2017**, 9, 17293-17302	7.7	30
261	Three-dimensional characteristics of the grain boundary networks of conventional and grain boundary engineered 316L stainless steel. *Materials Characterization*, **2017**, 133, 60-69	3.9	8
260	Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. *Science*, **2017**, 358, 97-101	33.3	96
259	The Deformed State **2017**, 13-79		2
258	Mobility and Migration of Boundaries **2017**, 145-197		4
257	Recovery After Deformation **2017**, 199-244		3
256	Recrystallization of Single-Phase Alloys **2017**, 245-304		5
255	Recrystallization of Ordered Materials **2017**, 305-320		
254	Grain Growth Following Recrystallization **2017**, 375-429		6
253	Recrystallization Textures **2017**, 431-468		20
252	Recrystallization of Two-Phase Alloys **2017**, 321-359		2

251	The Growth and Stability of Cellular Microstructures **2017**, 361-373		
250	Hot Deformation and Dynamic Restoration **2017**, 469-508		5
249	Control of Recrystallization **2017**, 527-567		6
248	Spatially selective photochemical activity on surfaces of ferroelastics with local polarization. *Semiconductor Science and Technology*, **2017**, 32, 103001	1.8	5
247	The five-parameter grain boundary curvature distribution in an austenitic and ferritic steel. *Acta Materialia*, **2017**, 123, 136-145	8.4	33
246	The temperature dependence of the relative grain-boundary energy of yttria-doped alumina. *Journal of the American Ceramic Society*, **2017**, 100, 783-791	3.8	16
245	The inter-connections of □B boundaries in pure iron. *Scripta Materialia*, **2017**, 128, 18-22	5.6	12
244	Atomistic simulations of grain boundary energies in tungsten. *Materials Letters*, **2017**, 186, 116-118	3.3	8
243	Correlated Electron Microscopy across Length Scales to Elucidate Structural, Electrical and Chemical Properties of Oxide Grain Boundaries. *Microscopy and Microanalysis*, **2017**, 23, 334-335	0.5	
242	The Structure and Energy of Grain Boundaries **2017**, 109-143		3
241	Continuous Recrystallization During and After Large Strain Deformation **2017**, 509-526		3
240	Competitive Growth of Scrutinyite (□PbO2) and Rutile Polymorphs of SnO2 on All Orientations of Columbite CoNb2O6 Substrates. *Crystal Growth and Design*, **2017**, 17, 3929-3939	3.5	19
239	Controlling the Relative Areas of Photocathodic and Photoanodic Terraces on the SrTiO3(111) Surface. *Chemistry of Materials*, **2016**, 28, 5155-5162	9.6	26
238	Grain boundary plane distributions in a cold rolled and annealed high purity iron. *Materials Characterization*, **2016**, 122, 6-13	3.9	3
237	The Orientation Dependence of the Photochemical Activity of □Fe2O3. *Journal of the American Ceramic Society*, **2016**, 99, 2428-2435	3.8	9
236	Computational Model of Domain-Specific Reactivity on Coated Ferroelectric Photocatalysts. *Journal of Physical Chemistry C*, **2016**, 120, 12673-12684	3.8	15
235	Expanding time□temperature-transformation (TTT) diagrams to interfaces: A new approach for grain boundary engineering. *Acta Materialia*, **2016**, 106, 78-86	8.4	58
234	The role of grain boundary energy in grain boundary complexion transitions. *Current Opinion in Solid State and Materials Science*, **2016**, 20, 231-239	12	41

233	High visible-light photochemical activity of titania decorated on single-wall carbon nanotube aerogels. *RSC Advances*, **2016**, 6, 22285-22294	3.7	30
232	Ferroelastic domains improve photochemical reactivity: a comparative study of monoclinic and tetragonal (Bi1□0.5xNa0.5x)(V1□Mox)O4 ceramics. *Journal of Materials Chemistry A*, **2016**, 4, 2951-2959	13	15
231	Evolution of the Annealing Twin Density during □Supersolvus Grain Growth in the Nickel-Based Superalloy Inconel□718. *Metals*, **2016**, 6, 5	2.3	18
230	The five parameter grain boundary character distribution of □Ti determined from three-dimensional orientation data. *Acta Materialia*, **2016**, 111, 22-30	8.4	48
229	Complexion time-temperature-transformation (TTT) diagrams: Opportunities and challenges. *Current Opinion in Solid State and Materials Science*, **2016**, 20, 316-323	12	20
228	Distributions of Grain Boundary Normals in the Laboratory Reference Frame. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2591-2595	2.3	1
227	Multidomain simulations of coated ferroelectrics exhibiting spatially selective photocatalytic activity with high internal quantum efficiencies. *Journal of Materials Chemistry A*, **2016**, 4, 16085-16093	13	17
226	Grain-boundary character distribution and correlations with electrical and optoelectronic properties of CuInSe2 thin films. *Acta Materialia*, **2016**, 118, 244-252	8.4	20
225	Heat affected zone microstructures and their influence on toughness in two microalloyed HSLA steels. *Acta Materialia*, **2015**, 97, 380-391	8.4	55
224	Orientation relationships of copper crystals on sapphire (1 0 1 0) m-plane and (1 0 1 2) r-plane substrates. *Journal of Crystal Growth*, **2015**, 418, 57-63	1.6	6
223	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	4.3	9
222	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	3.5	18
221	Observation of annealing twin nucleation at triple lines in nickel during grain growth. *Acta Materialia*, **2015**, 99, 63-68	8.4	58
220	The orientation dependence of the photochemical reactivity of BiVO4. *Journal of Materials Chemistry A*, **2015**, 3, 2370-2377	13	23
219	The equilibrium crystal shape of strontium titanate and its relationship to the grain boundary plane distribution. *Acta Materialia*, **2015**, 82, 32-40	8.4	46
218	Understanding materials microstructure and behavior at the mesoscale. *MRS Bulletin*, **2015**, 40, 951-960	3.2	18
217	Preferential orientation relationships in Ca2MnO4 Ruddlesden-Popper thin films. *Journal of Applied Physics*, **2015**, 118, 045306	2.5	5
216	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	8.4	36

215	Thermo-mechanical factors influencing annealing twin development in nickel during recrystallization. *Journal of Materials Science*, **2015**, 50, 5191-5203	4.3	34
214	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	2.5	9
213	Consistent representations of and conversions between 3D rotations. *Modelling and Simulation in Materials Science and Engineering*, **2015**, 23, 083501	2	41
212	Grain boundary energies in body-centered cubic metals. *Acta Materialia*, **2015**, 88, 346-354	8.4	141
211	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	8.4	48
210	Three-dimensional digital approximations of grain boundary networks in polycrystals. *Modelling and Simulation in Materials Science and Engineering*, **2014**, 22, 025017	2	7
209	Influence of Y and La Additions on Grain Growth and the Grain-Boundary Character Distribution of Alumina. *Journal of the American Ceramic Society*, **2014**, 97, 622-630	3.8	22
208	The distribution of intervariant crystallographic planes in a lath martensite using five macroscopic parameters. *Acta Materialia*, **2014**, 63, 86-98	8.4	64
207	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	5.3	127
206	Ferroelectric-Enhanced Photocatalysis with TiO2/BiFeO3 **2014**, 15-24		
205	Crystallography of Interfaces and Grain Size Distributions in Sr-Doped LaMnO3. *Journal of the American Ceramic Society*, **2014**, 97, 2623-2630	3.8	6
204	Influence of grain boundary energy on the nucleation of complexion transitions. *Scripta Materialia*, **2014**, 88, 1-4	5.6	27
203	The five parameter grain boundary character distribution of polycrystalline silicon. *Journal of Materials Science*, **2014**, 49, 4938-4945	4.3	56
202	Polar Domains at the Surface of Centrosymmetric BiVO4. *Chemistry of Materials*, **2014**, 26, 2774-2776	9.6	32
201	Modeling the interface area aspect ratio of carbide grains in WC□Co composites. *International Journal of Refractory Metals and Hard Materials*, **2014**, 44, 7-11	4.1	13
200	Effect of plastic deformation on the □ grain boundary plane distribution in WC□Co cemented carbides. *International Journal of Refractory Metals and Hard Materials*, **2014**, 47, 38-43	4.1	9
199	Focused ion beam and scanning electron microscopy for 3D materials characterization. *MRS Bulletin* , **2014**, 39, 361-365	3.2	29
198	Microstructural Characterization of Hard Ceramics **2014**, 265-284		2

197	Growth of Ca2MnO4 Ruddlesden-Popper structured thin films using combinatorial substrate epitaxy. *Journal of Applied Physics*, **2014**, 116, 245303	2.5	12
196	Grain Boundary Plane Distributions in a Hot Rolled 5A06 Aluminum Alloy. *Advanced Engineering Materials*, **2014**, 16, 1105-1110	3.5	4
195	Variant selection and intervariant crystallographic planes distribution in martensite in a Ti□Al□V alloy. *Acta Materialia*, **2014**, 80, 478-489	8.4	120
194	Photocatalysts with internal electric fields. *Nanoscale*, **2014**, 6, 24-42	7.7	542
193	Grain boundary complexions. *Acta Materialia*, **2014**, 62, 1-48	8.4	497
192	Grain boundary character distribution of nanocrystalline Cu thin films using stereological analysis of transmission electron microscope orientation maps. *Microscopy and Microanalysis*, **2013**, 19, 111-9	0.5	36
191	The Distribution of Grain Boundary Planes in Interstitial Free Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 115-124	2.3	47
190	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	6.7	40
189	The five-parameter grain boundary character distribution of nanocrystalline tungsten. *Scripta Materialia*, **2013**, 69, 413-416	5.6	25
188	Combinatorial substrate epitaxy: a new approach to growth of complex metastable compounds. *CrystEngComm*, **2013**, 15, 5434	3.3	20
187	Copper crystals on the (11(bf{bar{2}})0) sapphire plane: orientation relationships, triple line ridges and interface shape equilibrium. *Journal of Materials Science*, **2013**, 48, 3013-3026	4.3	17
186	The influence of residual thermal stresses on the mechanical properties of multilayer □Al2O3/TiCxN1□ coatings on WC/Co cutting tools. *Surface and Coatings Technology*, **2013**, 215, 119-126	4.4	19
185	Eutaxial growth of hematite Fe2O3 films on perovskite SrTiO3 polycrystalline substrates. *Thin Solid Films*, **2013**, 548, 220-224	2.2	12
184	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	8.4	87
183	Visible-light photochemical activity of heterostructured core-shell materials composed of selected ternary titanates and ferrites coated by tiO2. *ACS Applied Materials & Interfaces*, **2013**, 5, 5064-71	9.5	47
182	Microstructure design of lead-free piezoelectric ceramics. *Journal of the European Ceramic Society*, **2013**, 33, 313-326	6	18
181	Effect of densification mechanism on the □ grain boundary plane distribution in WC□Co composites. *Materials Letters*, **2013**, 92, 86-89	3.3	13
180	Formation of Annealing Twins during Recrystallization and Grain Growth in 304L Austenitic Stainless Steel. *Materials Science Forum*, **2013**, 753, 113-116	0.4	45

179	Evolution of Microstructure in Pure Nickel during Processing for Grain Boundary Engineering. *Materials Science Forum*, **2013**, 753, 97-100	0.4	3
178	The Relationship between Grain Boundary Energy, Grain Boundary Complexion Transitions, and Grain Size in Ca-Doped Yttria. *Materials Science Forum*, **2013**, 753, 87-92	0.4	11
177	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	5.6	24
176	Effect of downscaling nano-copper interconnects on the microstructure revealed by high resolution TEM-orientation-mapping. *Nanotechnology*, **2012**, 23, 135702	3.4	34
175	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	51
174	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	8.4	36
173	Enhanced photochemical activity of □Fe2O3 films supported on SrTiO3 substrates under visible light illumination. *Chemical Communications*, **2012**, 48, 2012-4	5.8	32
172	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	2.3	26
171	Visible light photochemical activity of heterostructured PbTiO3□TiO2 core□shell particles. *Catalysis Science and Technology*, **2012**, 2, 1945	5.5	81
170	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	2.3	29
169	Heterostructured Ceramic Powders for Photocatalytic Hydrogen Production: Nanostructured TiO2 Shells Surrounding Microcrystalline (Ba,Sr)TiO3 Cores. *Journal of the American Ceramic Society*, **2012**, 95, 1414-1420	3.8	69
168	Synthesizing Annealing Twins in Three-Dimensional Voxel-Based Microstructures. *Materials Science Forum*, **2012**, 715-716, 549-549	0.4	
167	Role of Inclination Dependent Anisotropy on Boundary Populations during Two-Dimensional Grain Growth. *Materials Science Forum*, **2012**, 715-716, 697-702	0.4	
166	Measuring relative grain-boundary energies in block-copolymer microstructures. *Physical Review Letters*, **2012**, 108, 107801	7.4	14
165	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		3
164	Spatially selective visible light photocatalytic activity of TiO2/BiFeO3 heterostructures. *Journal of Materials Chemistry*, **2011**, 21, 4168		113
163	Validating computed grain boundary energies in fcc metals using the grain boundary character distribution. *Acta Materialia*, **2011**, 59, 5250-5256	8.4	53
162	Crystallographic Characteristics of Grain Boundaries in Dense Yttria-Stabilized Zirconia. *International Journal of Applied Ceramic Technology*, **2011**, 8, 1218-1228	2	26

161	Measuring and Interpreting the Structure of Grain-Boundary Networks. *Journal of the American Ceramic Society*, **2011**, 94, 633-646	3.8	74
160	The Orientation Distributions of Lines, Surfaces, and Interfaces around Three-Phase Boundaries in Solid Oxide Fuel Cell Cathodes. *Journal of the American Ceramic Society*, **2011**, 94, 4045-4051	3.8	19
159	Orientation relationships of copper crystals on c-plane sapphire. *Acta Materialia*, **2011**, 59, 5320-5331	8.4	41
158	Grain boundary energy anisotropy: a review. *Journal of Materials Science*, **2011**, 46, 5881-5895	4.3	275
157	Five-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	31
156	Effect of crystal and domain orientation on the visible-light photochemical reduction of Ag on BiFeO *ACS Applied Materials & Interfaces*, **2011**, 3, 1562-7	9.5	56
155	Towards an integrated materials characterization toolbox. *Journal of Materials Research*, **2011**, 26, 1341-1383	2.3	75
154	The Relative Energies of Normally and Abnormally Growing Grain Boundaries in Alumina Displaying Different Complexions. *Journal of the American Ceramic Society*, **2010**, 93, 1796	3.8	51
153	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	25
152	Enhanced Photochemical Reactivity at the Ferroelectric Phase Transition in Ba1 SrxTiO3. *Journal of the American Ceramic Society*, **2010**, 93, 4129-4134	3.8	23
151	Stress hot spots in viscoplastic deformation of polycrystals. *Modelling and Simulation in Materials Science and Engineering*, **2010**, 18, 074005	2	60
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	0.5	23
149	Composition Dependence of the Photochemical reduction of Ag by Ba1 SrxTiO3. *Chemistry of Materials*, **2010**, 22, 3527-3534	9.6	60
148	Photochemical Reactivity of Titania Films on BaTiO3 Substrates: Origin of Spatial Selectivity. *Chemistry of Materials*, **2010**, 22, 5823-5830	9.6	87
147	Deriving grain boundary character distributions and relative grain boundary energies from three-dimensional EBSD data. *Materials Science and Technology*, **2010**, 26, 661-669	1.5	78
146	Photochemical Reactivity of Titania Films on BaTiO3 Substrates: Influence of Titania Phase and Orientation. *Chemistry of Materials*, **2010**, 22, 5831-5837	9.6	56
145	Misorientation texture development during grain growth. Part II: Theory. *Acta Materialia*, **2010**, 58, 14-19	8.4	31
144	Introduction to Grains, Phases, and Interfaces an Interpretation of Microstructure, Trans. AIME, 1948, vol. 175, pp. 15 1, by C.S. Smith. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 1063-1100	2.3	35

143	Introduction to Grains, Phases, and Interfaces—an Interpretation of Microstructure, Trans. AIME, 1948, vol. 175, pp. 15–51, by C.S. Smith. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2010**, 41, 457-494	2.5	11
142	Textures and grain boundary character distributions in a cold rolled and annealed Pb–Ca based alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 3695-3706	5.3	23
141	Topological characteristics of plane sections of polycrystals. *Acta Materialia*, **2010**, 58, 3805-3814	8.4	19
140	Comparing calculated and measured grain boundary energies in nickel. *Acta Materialia*, **2010**, 58, 5063-5069	8.4	88
139	Influence of interface energies on solute partitioning mechanisms in doped aluminas. *Acta Materialia*, **2010**, 58, 5097-5108	8.4	32
138	Microtexture and hardness of CVD deposited α-Al2O3 and TiCxN1−x coatings. *International Journal of Refractory Metals and Hard Materials*, **2009**, 27, 458-464	4.1	12
137	Reconstruction and simplification of high-quality multiple-region models from planar sections. *Engineering With Computers*, **2009**, 25, 221-235	4.5	6
136	Characterization of the Grain-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	78
135	Effect of Segregating Impurities on the Grain-Boundary Character Distribution of Magnesium Oxide. *Journal of the American Ceramic Society*, **2009**, 92, 3044-3051	3.8	20
134	Mechanism for the development of anisotropic grain boundary character distributions during normal grain growth. *Acta Materialia*, **2009**, 57, 1-7	8.4	73
133	Relative grain boundary area and energy distributions in nickel. *Acta Materialia*, **2009**, 57, 4304-4311	8.4	129
132	Misorientation texture development during grain growth. Part I: Simulation and experiment. *Acta Materialia*, **2009**, 57, 6102-6112	8.4	64
131	Measurement of the Five-Parameter Grain Boundary Distribution from Planar Sections **2009**, 215-229		7
130	Five-parameter grain boundary analysis of a titanium alloy before and after low-temperature annealing. *Scripta Materialia*, **2008**, 58, 183-186	5.6	63
129	A Model for the Origin of Anisotropic Grain Boundary Character Distributions in Polycrystalline Materials. *Ceramic Transactions*, **2008**, 343-353	0.1	2
128	The Influence of the Dipolar Field Effect on the Photochemical Reactivity of Sr2Nb2O7 and BaTiO3 Microcrystals. *Topics in Catalysis*, **2008**, 49, 18-23	2.3	44
127	Five-parameter grain boundary distribution of commercially grain boundary engineered nickel and copper. *Acta Materialia*, **2008**, 56, 2363-2373	8.4	120
126	Interface Character Distributions in WC–Co Composites. *Journal of the American Ceramic Society*, **2008**, 91, 996-1001	3.8	66

125	Crystallographic texture in pulsed laser deposited hydroxyapatite bioceramic coatings. *Acta Materialia*, **2007**, 55, 131-139	8.4	40
124	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	19
123	Modeling the Influence of Orientation Texture on the Strength of WC□o Composites. *Journal of the American Ceramic Society*, **2007**, 90, 199-204	3.8	22
122	The origin of photochemical anisotropy in SrTiO3. *Topics in Catalysis*, **2007**, 44, 529-533	2.3	67
121	Grain Boundary Plane Distributions in Modified 316 LN Steel Exposed at Elevated and Cryogenic Temperatures. *Journal of Materials Science*, **2007**, 42, 9543-9547	4.3	14
120	The distribution of grain boundary planes in polycrystals. *Jom*, **2007**, 59, 38-42	2.1	38
119	Three-Dimensional Microstructure Reconstruction Using FIB-OIM. *Materials Science Forum*, **2007**, 558-559, 915-920	0.4	19
118	Orientation Distribution of □ Grain Boundary Planes in Ni before and after Grain Boundary Engineering. *Materials Science Forum*, **2007**, 558-559, 641-647	0.4	5
117	Three-Dimensional Characterization of Microstructure by Electron Back-Scatter Diffraction. *Annual Review of Materials Research*, **2007**, 37, 627-658	12.8	121
116	Modeling the relationship between microstructural features and the strength of WC□o composites. *International Journal of Refractory Metals and Hard Materials*, **2006**, 24, 89-100	4.1	45
115	Grain boundary energy and grain growth in Al films: Comparison of experiments and simulations. *Scripta Materialia*, **2006**, 54, 1059-1063	5.6	51
114	Grain boundary planes: New dimensions in the grain boundary character distribution. *Scripta Materialia*, **2006**, 54, 1005-1009	5.6	57
113	Sparse data structure and algorithm for the phase field method. *Modelling and Simulation in Materials Science and Engineering*, **2006**, 14, 1189-1195	2	78
112	Influence of Dipolar Fields on the Photochemical Reactivity of Thin Titania Films on BaTiO3 Substrates. *Journal of the American Ceramic Society*, **2006**, 89, 060623005134019-???	3.8	6
111	Changes in the five-parameter grain boundary character distribution in □brass brought about by iterative thermomechanical processing. *Acta Materialia*, **2006**, 54, 4489-4502	8.4	95
110	INFLUENCE OF INTERFACE ANISOTROPY ON GRAIN GROWTH AND COARSENING. *Annual Review of Materials Research*, **2005**, 35, 99-126	12.8	69
109	Equilibrium crystal shape of Bi-saturated Cu crystals at 1223K. *Acta Materialia*, **2005**, 53, 4057-4064	8.4	26
108	Conversion of Diaspore to Corundum: A New □Alumina Transformation Sequence. *Journal of the American Ceramic Society*, **2005**, 80, 2677-2680	3.8	28

107	Shape Evolution of SrTiO3 Crystals During Coarsening in a Titania-Rich Liquid. *Journal of the American Ceramic Society*, **2005**, 88, 993-996	3.8	14
106	Five-parameter grain boundary distribution in grain boundary engineered brass. *Scripta Materialia*, **2005**, 52, 633-637	5.6	71
105	Effect of anisotropic grain boundary properties on grain boundary plane distributions during grain growth. *Scripta Materialia*, **2005**, 53, 351-355	5.6	58
104	Distribution of misorientations and grain boundary planes in grain boundary engineered brass. *Materials Science and Technology*, **2005**, 21, 1287-1292	1.5	5
103	Grain Boundary Energy and Grain Growth in Highly-Textured Al Films and Foils: Experiment and Simulation. *Materials Science Forum*, **2005**, 495-497, 1255-1260	0.4	2
102	Changes in the distribution of interfaces in PMN-35 mol% PT as a function of time. *International Journal of Materials Research*, **2005**, 96, 207-210		4
101	The influence of singular surfaces and morphological changes on coarsening. *International Journal of Materials Research*, **2005**, 96, 191-196		1
100	Effect of Anisotropic Interfacial Energy on Grain Boundary Distributions during Grain Growth. *Materials Science Forum*, **2004**, 467-470, 733-738	0.4	2
99	Distribution of Grain Boundary Planes at Coincident Site Lattice Misorientations. *Materials Research Society Symposia Proceedings*, **2004**, 819, N7.2.1		7
98	Segregation of Calcium to Magnesium Oxide Grain Boundaries. *Materials Science Forum*, **2004**, 467-470, 789-794	0.4	2
97	Five-Parameter Grain Boundary Character Distribution in Fe-1%Si. *Materials Science Forum*, **2004**, 467-470, 727-732	0.4	11
96	Mesoscale Simulation of the Evolution of the Grain Boundary Character Distribution. *Materials Science Forum*, **2004**, 467-470, 1063-1068	0.4	22
95	Measuring the Influence of Grain-Boundary Misorientation on Thermal Groove Geometry in Ceramic Polycrystals. *Journal of the American Ceramic Society*, **2004**, 82, 1529-1536	3.8	82
94	Experimental Method for Determining Surface Energy Anisotropy and Its Application to Magnesia. *Journal of the American Ceramic Society*, **2004**, 83, 1226-1232	3.8	26
93	Influence of Diaspore Seeding and Chloride Concentration on the Transformation of Diasporic Precursors to Corundum. *Journal of the American Ceramic Society*, **2004**, 84, 1896-1902	3.8	16
92	Nucleation Energy Barriers for Volume-Conserving Shape Changes of Crystals with Nonequilibrium Morphologies. *Journal of the American Ceramic Society*, **2004**, 84, 2099-2104	3.8	51
91	Coarsening of Faceted Crystals. *Journal of the American Ceramic Society*, **2004**, 85, 675-682	3.8	49
90	Determining Crystal Habits from Observations of Planar Sections. *Journal of the American Ceramic Society*, **2004**, 85, 2799-2804	3.8	30

89	Distribution and Energies of Grain Boundaries in Magnesia as a Function of Five Degrees of Freedom. *Journal of the American Ceramic Society*, **2004**, 85, 3081-3083	3.8	60
88	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	85
87	Habits of Grains in Dense Polycrystalline Solids. *Journal of the American Ceramic Society*, **2004**, 87, 724-726	3.8	63
86	Anisotropic phenomena at interfaces in bismuth-saturated copper. *Scripta Materialia*, **2004**, 50, 565-569	5.6	10
85	Geometric and Crystallographic Characterization of WC Surfaces and Grain Boundaries in WC-Co Composites. *Journal of Materials Science*, **2004**, 12, 19-27		56
84	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	2.3	153
83	Distribution of grain boundaries in aluminum as a function of five macroscopic parameters. *Acta Materialia*, **2004**, 52, 3649-3655	8.4	167
82	The distribution of internal interfaces in polycrystals. *International Journal of Materials Research*, **2004**, 95, 197-214		178
81	Crystallographic Distribution of Internal Interfaces in Spinel Polycrystals. *Materials Science Forum*, **2004**, 467-470, 783-788	0.4	10
80	Grain boundary segregation in oxide ceramics. *Journal of the European Ceramic Society*, **2003**, 23, 2841-2848		49
79	Structure Se nsitivity of Photochemical Oxidation and Reduction Reactions on SrTiO3 Surfaces. *Journal of the American Ceramic Society*, **2003**, 86, 1182-1189	3.8	59
78	Surface Energy Anisotropy of SrTiO3 at 1400°C in Air. *Journal of the American Ceramic Society*, **2003**, 86, 1933-1939	3.8	92
77	Distribution of grain boundaries in magnesia as a function of five macroscopic parameters. *Acta Materialia*, **2003**, 51, 3663-3674	8.4	200
76	The relative free energies of grain boundaries in magnesia as a function of five macroscopic parameters. *Acta Materialia*, **2003**, 51, 3675-3686	8.4	132
75	Inhibition of Sintering and Surface Area Loss in Phosphorus-Doped Corundum Derived from Diaspore. *Journal of the American Ceramic Society*, **2002**, 85, 2325-2330	3.8	10
74	Crystallographic Distribution of Low Angle Grain Boundary Planes in Magnesium Oxide. *Materials Science Forum*, **2002**, 408-412, 1705-1710	0.4	2
73	Photochemical Reactivity of Sr2Nb2O7 and Sr2Ta2O7 as a Function of Surface Orientation. *Materials Research Society Symposia Proceedings*, **2002**, 755, 1		
72	Orientation Dependence of Photochemical Reduction Reactions on SrTiO3 Surfaces. *Materials Research Society Symposia Proceedings*, **2002**, 751, 1		3

71	Orientation Dependence of the Photochemical Reactivity of BaTi4O9. *Materials Research Society Symposia Proceedings*, **2002**, 755, 1		
70	Surface engineering along the close-packed direction of SrTiO3. *Journal of Crystal Growth*, **2001**, 225, 178-182	1.6	25
69	Evaluating Anisotropic Surface Energies Using the Capillarity Vector Reconstruction Method. *Journal of Materials Science*, **2001**, 9, 35-42		15
68	Residual-Stress Predictions in Polycrystalline Alumina. *Journal of the American Ceramic Society*, **2001**, 84, 2947-2954	3.8	102
67	Spatial Separation of Photochemical Oxidation and Reduction Reactions on the Surface of Ferroelectric BaTiO3. *Journal of Physical Chemistry B*, **2001**, 105, 8275-8277	3.4	204
66	Spatially Selective Photochemical Reduction of Silver on the Surface of Ferroelectric Barium Titanate. *Chemistry of Materials*, **2001**, 13, 241-242	9.6	168
65	The Influence of Surface Termination and Domain Structure on the Photochemical Reactivity of SrTiO3 and BaTiO3. *Microscopy and Microanalysis*, **2001**, 7, 1062-1063	0.5	
64	Structure and Bonding in Crystalline Materials **2001**,		104
63	Photochemical Reduction and Oxidation Reactions on Barium Titanate Surfaces. *Materials Research Society Symposia Proceedings*, **2000**, 654, 741		5
62	Origin of domain structure in hexagonal silicon carbide boules grown by the physical vapor transport method. *Journal of Crystal Growth*, **2000**, 220, 308-315	1.6	40
61	Nucleation Barrier for Volume-Conserving Shape Changes of Faceted Crystals. *Journal of the American Ceramic Society*, **2000**, 83, 214-16	3.8	135
60	Misorientation Dependence of the Grain Boundary Energy in Magnesia. *Journal of Materials Science*, **2000**, 8, 131-140		38
59	Formation of thermal decomposition cavities in physical vapor transport of silicon carbide. *Journal of Electronic Materials*, **2000**, 29, 347-352	1.9	18
58	Identification of prismatic slip bands in 4H SiC boules grown by physical vapor transport. *Journal of Electronic Materials*, **2000**, 29, L5-L8	1.9	23
57	Origin of Threading Dislocation Arrays in SiC Boules Grown by PVT. *Materials Science Forum*, **2000**, 338-342, 477-480	0.4	13
56	Nucleation of Dislocations during Physical Vapor Transport Growth of Silicon Carbide. *Materials Science Forum*, **2000**, 338-342, 63-66	0.4	2
55	Plastic Deformation and Residual Stresses in SiC Boules Grown by PVT. *Materials Science Forum*, **2000**, 338-342, 67-70	0.4	23
54	Thermal Decomposition Cavities in Physical Vapor Transport Grown SiC. *Materials Science Forum*, **2000**, 338-342, 55-58	0.4	2

53	Extraction of Grain Boundary Energies from Triple Junction Geometry. *Microscopy and Microanalysis*, **1999**, 5, 230-231	0.5	2
52	Brightness degradation in electroluminescent ZnS:Cu. *Solid State Ionics*, **1999**, 123, 19-24	3.3	22
51	The Structure Sensitivity of HxMoO3Precipitation on MoO3(010) during Reactions with Methanol. *Journal of Catalysis*, **1999**, 184, 49-58	7.3	10
50	Extracting Grain Boundary and Surface Energy from Measurement of Triple Junction Geometry. *Journal of Materials Science*, **1999**, 7, 321-337		48
49	The Protonation of MoO3during the Partial Oxidation of Alcohols. *Journal of Catalysis*, **1998**, 173, 219-228	7.3	42
48	The Morphological Evolution of the MoO3(010) Surface during Reactions in Methanol/Air Mixtures. *Journal of Catalysis*, **1998**, 180, 270-278	7.3	24
47	Anisotropic Photochemical Reactivity of Bulk TiO2 Crystals. *Journal of Physical Chemistry B*, **1998**, 102, 7323-7327	3.4	166
46	Orientation Dependence of Photochemical Reactions on TiO2Surfaces. *Journal of Physical Chemistry B*, **1998**, 102, 3216-3226	3.4	185
45	Structural Characterization of SiC Crystals Grown by Physical Vapor Transport. *Materials Science Forum*, **1998**, 264-268, 433-436	0.4	
44	Surface Defects in GaN and AlxGa1-xN Epilayers Deposited on Sapphire by Organometallic Vapor Phase Epitaxy. *Materials Science Forum*, **1998**, 264-268, 1251-1254	0.4	
43	The Formation of Super-Disolcation/Micropipe Complexes in 6H-SiC. *Materials Science Forum*, **1998**, 264-268, 371-374	0.4	3
42	The Structural Evolution of Seed Surfaces During the Initial Stages of Physical Vapor Transport SiC Growth. *Materials Science Forum*, **1998**, 264-268, 37-40	0.4	6
41	The Structural Evolution of Lely Seeds During the Initial Stages of SiC Sublimation Growth. *Materials Research Society Symposia Proceedings*, **1997**, 483, 295		6
40	The Partial Oxidation of Methanol by MoO3(010) Surfaces with Controlled Defect Distributions. *Materials Research Society Symposia Proceedings*, **1997**, 497, 53		
39	Growth morphologies of heteroepitaxial rutile films on sapphire substrates. *Journal of Crystal Growth*, **1997**, 174, 424-433	1.6	17
38	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	1.6	39
37	A scanning probe microscopy study of the (001) surfaces of V2O5 and V6O13. *Surface Science*, **1996**, 367, 87-95	1.8	54
36	The Relationship Between Micropipes and Screw Dislocations in PVT Grown 6H-SiC. *Materials Research Society Symposia Proceedings*, **1996**, 423, 539		8

35	An Atomic Force Microscopy Study of the Morphological Evolution of the MoO3(010) Surface during Reduction Reactions. *Journal of Catalysis*, **1996**, 163, 12-17	7.3	38
34	Scanning Probe Microscopy of Cleaved Molybdates: MoO3(010), Mo18O52(100), Mo8O23(010), and Mo4O11(100). *Journal of Solid State Chemistry*, **1996**, 124, 104-115	3.3	66
33	Heteroepitaxial growth of TiO2 films by ion-beam sputter deposition. *Journal of Crystal Growth*, **1996**, 166, 779-785	1.6	45
32	Open-core screw dislocations in GaN epilayers observed by scanning force microscopy and high-resolution transmission electron microscopy. *Applied Physics Letters*, **1995**, 67, 2284-2286	3.4	196
31	The observation of oxygen disorder on the V2O5(001) surface using scanning tunneling microscopy. *Surface Science*, **1995**, 322, 293-300	1.8	38
30	A Microscopic Evaluation of the Surface Structure of OMVPE Deposited GaN Epilayers. *Materials Research Society Symposia Proceedings*, **1995**, 395, 381		8
29	Scanning Tunneling Microscopy and Crystal Chemical Models of the Na0.82WO3 (001) Surface. *Journal of Solid State Chemistry*, **1994**, 109, 359-371	3.3	13
28	Experimental and simulated tunneling spectra of the polar ZnO surfaces. *Surface Science*, **1994**, 318, 379-394	1.8	27
27	Monte Carlo simulations of Mg(Al)O solid solutions based on crystal chemical rules. *Chemistry of Materials*, **1994**, 6, 501-507	9.6	9
26	The Synthesis of an Interstratified Layered Oxide from Exfoliated Precursors. *Materials Research Society Symposia Proceedings*, **1994**, 371, 187		1
25	Experimental and Simulated Scanning Tunneling Microscopy of the Cleaved Rb1/3WO3 (0001) Surface. *Materials Research Society Symposia Proceedings*, **1994**, 332, 501		
24	Imaging the Atomic-Scale Structure of Molybdenum and Vanadium Oxides by Scanning Tunneling Microscopy. *Materials Research Society Symposia Proceedings*, **1994**, 332, 507		
23	The Atomic-Scale Characterization of Defects on Cleaved Vanadium and Molybdenum Oxide Surfaces Using STM. *Materials Research Society Symposia Proceedings*, **1994**, 357, 79		
22	Imaging surface/crystallographic shear plane intersections on the Mo18O52(100) surface using scanning tunneling microscopy. *Surface Science*, **1993**, 292, 261-266	1.8	19
21	Termination layer variations on the cleaved (0001) surface determined by scanning tunneling microscopy. *Surface Science*, **1993**, 291, 395-401	1.8	15
20	A scanning tunneling microscopy and spectroscopy study of the TiO2(110) surface. *Surface Science*, **1992**, 278, 146-156	1.8	84
19	Direct measurement of local properties of interfaces with scanning tunneling microscopy. *Acta Metallurgica Et Materialia*, **1992**, 40, S161-S171		4
18	The geometric and electronic structure of the surface. *Surface Science Letters*, **1991**, 247, L195-L200		5

17	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		18
16	Probing the surface chemistry of polycrystalline ZnO with scanning tunneling microscopy and tunneling spectroscopy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1991**, 9, 783		12
15	The geometric and electronic structure of the ZnO(0001) surface. *Surface Science*, **1991**, 247, L195-L200	1.8	17
14	Hydration of selected divalent .beta.''-aluminas. *Chemistry of Materials*, **1991**, 3, 325-332	9.6	4
13	A Scanning Tunneling Microscopy Study of the Reduced Tio2(110)Surface. *Materials Research Society Symposia Proceedings*, **1990**, 209, 611		2
12	Detection of Optically Excited States in Wide-Band-Gap Semiconductors with Tunneling Spectroscopy. *Journal of the American Ceramic Society*, **1990**, 73, 3257-3263	3.8	3
11	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	16
10	Electrical conductivity in Pb(II)- and Na(I)-Pb(II)-□-alumina. *Journal of Solid State Chemistry*, **1990**, 85, 299-314	3.3	11
9	Structure of the Reduced TiO2(110) Surface Determined by Scanning Tunneling Microscopy. *Science*, **1990**, 250, 1239-41	33.3	117
8	Structure and properties of tin(II)-.beta.''-alumina. *Chemistry of Materials*, **1990**, 2, 395-403	9.6	4
7	Defect formation in silver(I), lead(II), tin(II) and bismuth(III) .beta."-aluminas. *Chemistry of Materials*, **1989**, 1, 438-444	9.6	3
6	The effect of thermal history on the ionic conductivity of Pb(II)-□-alumina. *Solid State Ionics*, **1988**, 28-30, 354-357	3.3	4
5	The reactivity of selected divalent □-aluminas with water. *Materials Research Bulletin*, **1988**, 23, 1747-1755	5.1	5
4	Synthesis of di- and trivalent □-aluminas by ion exchange. *Journal of Solid State Chemistry*, **1986**, 65, 231-240	3.3	41
3	Evolution of the Grain Boundary Character Distribution in Strontium Titanate during Grain Growth. *Ceramic Transactions*,335-342	0.1	0
2	On the grain boundary network characteristics in a dual phase steel. *Journal of Materials Science*,1	4.3	
1	Three-Dimensional FIB-OIM of Ceramic Materials. *Ceramic Transactions*,117-124	0.1	1