

C Barry Carter

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.

368
papers

8,433
citations

38
h-index

85
g-index

391
ext. papers

8,980
ext. citations

3.1
avg, IF

6.02
L-index

#	Paper	IF	Citations
368	Characterizing Li in partially lithiated layer materials using atomic-resolution imaging, modeling, and simulation. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1581	3.8	0
367	Phase evolution and structural modulation during in situ lithiation of MoS ₂ , WS ₂ and graphite in TEM. <i>Scientific Reports</i> , 2021 , 11, 9014	4.9	3
366	Identification of Star Defects in Gallium Nitride with HREBSD and ECCI. <i>Microscopy and Microanalysis</i> , 2021 , 27, 257-265	0.5	1
365	Direct Visualization of the Earliest Stages of Crystallization. <i>Microscopy and Microanalysis</i> , 2021 , 27, 659-665	0.5	0
364	Reversible Phase Transformations during In-Situ Heating of Uncapped Ge ₂ Sb ₂ Te ₅ Films. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2412-2414	0.5	0
363	TEM Studies of Nanoscale Phase Transformation during in-situ reaction of Li with 2D Materials (MoS ₂ , WS ₂ , Graphite). <i>Microscopy and Microanalysis</i> , 2021 , 27, 338-340	0.5	0
362	Investigation of Phase Transformations in Ge ₄ Sb ₄ Te ₅ film using Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1240-1242	0.5	0
361	Defect analysis of star defects in GaN thin films grown on HVPE GaN substrates. <i>Microscopy and Microanalysis</i> , 2021 , 27, 916-917	0.5	0
360	Role of Oxygen on Chemical Segregation in Uncapped Ge ₂ Sb ₂ Te ₅ Thin Films on Silicon Nitride. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 054007	2	7
359	In situ TEM study of crystallization and chemical changes in an oxidized uncapped Ge ₂ Sb ₂ Te ₅ film. <i>Journal of Applied Physics</i> , 2020 , 128, 124505	2.5	4
358	Defect Imaging and Structure Evolution in GST Films During In-situ Heating. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1396-1398	0.5	4
357	Vertically Stacked 2H-1T Dual-Phase MoS ₂ Microstructures during Lithium Intercalation: A First Principles Study. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6603-6614	3.8	7
356	Direct Observation of Phase Transformations in Ge-Sb-Te Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1418-1420	0.5	4
355	Structures of Layered Materials After Reaction with Li/Na. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2356-2357	0.5	3
354	HRTEM and EELS Studies on the Structural and Chemical Modification of MoS ₂ and Graphite During In-situ Reactions with Li and Na. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2410-2412	0.5	3
353	Transmission Microscopy: Beginning Automation. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2256-2257	0.5	0
352	Teaching Microscopy Beats Analysis. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2266-2267	0.5	0

351	Cryogenic transmission electron microscopy for materials research. <i>MRS Bulletin</i> , 2019 , 44, 924-928	3.2	4
350	Electrospinning amorphous SiO ₂ -TiO ₂ and TiO ₂ nanofibers using sol-gel chemistry and its thermal conversion into anatase and rutile. <i>Ceramics International</i> , 2018 , 44, 4577-4585	5.1	15
349	Phase-Change Materials; the Challenges for TEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1904-1905	0.5	7
348	Observing the Lithiation of MoS ₂ . <i>Microscopy and Microanalysis</i> , 2018 , 24, 1858-1859	0.5	
347	TEM in situ lithiation of tin nanoneedles for battery applications. <i>Journal of Materials Science</i> , 2016 , 51, 589-602	4.3	16
346	Microscopy of the Deformation of Tantalum. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1644-1645	0.5	
345	Using TEM Operando Methods to Understand Energy Storage. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1320-1321	0.5	
344	Electron microscopy observations of the spinel-forming reaction using MgO nanocubes on Al ₂ O ₃ substrates. <i>Journal of Materials Science</i> , 2016 , 51, 144-157	4.3	3
343	Laser Direct Write Synthesis of Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3736-3741	6.4	43
342	Observations of fcc and hcp tantalum. <i>Journal of Materials Science</i> , 2015 , 50, 3706-3715	4.3	13
341	Coupling In Situ TEM and Ex Situ Analysis to Understand Heterogeneous Sodiation of Antimony. <i>Nano Letters</i> , 2015 , 15, 6339-48	11.5	80
340	Nucleation of fcc Ta when heating thin films. <i>Scripta Materialia</i> , 2015 , 96, 21-24	5.6	17
339	Observations on Orientation Relationships between Rutile and Brookite. <i>Microscopy and Microanalysis</i> , 2015 , 21, 301-302	0.5	
338	In situ TEM observations of the lithiation of molybdenum disulfide. <i>Scripta Materialia</i> , 2015 , 107, 22-25	5.6	20
337	Template-free electrochemical synthesis of tin nanostructures. <i>Journal of Materials Science</i> , 2014 , 49, 1476-1483	4.3	21
336	Flame-based processing as a practical approach for manufacturing hydrogen evolution electrodes. <i>Journal of Power Sources</i> , 2014 , 271, 366-376	8.9	17
335	Functionalized carbon nanotube reinforced scaffolds for bone regenerative engineering: fabrication, in vitro and in vivo evaluation. <i>Biomedical Materials (Bristol)</i> , 2014 , 9, 035001	3.5	70
334	Observations on Heavily Deformed Tantalum. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1082-1083	0.5	1

- 333 Heat Treatment of TiO₂/SiO₂ Electrospun Ceramic Fibers. *Microscopy and Microanalysis*, **2014**, 20, 1976-1977 1
- 332 Lithiation of Tin Nanoneedles Investigated by in-situ TEM. *Microscopy and Microanalysis*, **2014**, 20, 1978-1979
- 331 Flame-Based Synthesis of Core-Shell Structures Using Pd-Ru and Pd Cores. *Electrochimica Acta*, **2014**, 138, 341-352 6.7 9
- 330 Materials synthesis, electrochemical characterization and oxygen permeation properties of Fe-doped BaZrO₃. *Solid State Ionics*, **2014**, 266, 58-67 3.3 16
- 329 Electron-beam damage and point defects near grain boundaries in cerium oxide. *Journal of the European Ceramic Society*, **2014**, 34, 3007-3018 6 9
- 328 Preparation of functionalized platinum nanoparticles: a comparison of different methods and reagents. *Journal of Nanoparticle Research*, **2013**, 15, 1 2.3 5
- 327 Ceramic Materials **2013**, 125
- 326 Catalyst nanoscale assembly from the vapor phase on corrosion resistant supports. *Electrochimica Acta*, **2013**, 107, 632-655 6.7 22
- 325 Oxygen Evolution during Water Electrolysis from Thin Films Using Bimetallic Oxides of Ir-Pt and Ir-Ru. *Journal of the Electrochemical Society*, **2013**, 160, F716-F730 3.9 30
- 324 Microstructure and interfacial chemistry of pure and La-doped BiFeO₃ thin films. *Microscopy Research and Technique*, **2013**, 76, 1304-9 2.8
- 323 Changes in dewetting behavior of SiO₂ films on TiO₂ substrates due to film thickness and crucible choice. *Journal of Materials Science*, **2011**, 46, 4397-4406 4.3 3
- 322 Influence of alumina impurities on microstructure of LSM/TeO₂ composites. *Solid State Ionics*, **2011**, 187, 68-77 3.3 1
- 321 Microstructural evolution of cobalt-doped barium cerate-zirconate at elevated temperatures under moist reducing conditions. *Journal of the European Ceramic Society*, **2011**, 31, 1421-1429 6 9
- 320 Hydrothermal Synthesis of Nanocrystalline Barium Cerate Using Hexamethylenetetramine. *Journal of the American Ceramic Society*, **2010**, 93, 4041-4046 3.8 9
- 319 Synthesis and Characterization of Oxide Nanoparticles for Energy Applications. *Ceramic Engineering and Science Proceedings*, **2010**, 231-238 0.1
- 318 Phase-Boundary Grooving at Surfaces of Solid Oxide Fuel Cell Materials. *Ceramic Engineering and Science Proceedings*, **2010**, 105-112 0.1
- 317 Synthesis and Activity of Cobalt-Doped Barium Cerium Zirconate for Catalysis and Proton Conduction. *Ceramic Engineering and Science Proceedings*, **2010**, 167-173 0.1
- 316 Synthesis of cobalt-doped barium cerate-zirconate and its evaluation for hydrogen production and electrochemical characterization. *Journal of Materials Science*, **2010**, 45, 3215-3227 4.3 10

315	Characterizing CA2 and CA6 using ELNES. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1776-1784	3.3	20
314	Low-temperature and ambient-pressure synthesis and shape evolution of nanocrystalline pure, La-doped and Gd-doped CeO ₂ . <i>Applied Surface Science</i> , 2010 , 256, 3772-3777	6.7	12
313	Nanopatterning by solid-state dewetting on reconstructed ceramic surfaces. <i>Applied Physics Letters</i> , 2009 , 94, 171114	3.4	32
312	Crystallization of CaAl ₄ O ₇ and CaAl ₁₂ O ₁₉ powders. <i>Philosophical Magazine</i> , 2009 , 89, 605-621	1.6	11
311	Reaction of CaAl ₄ O ₇ with (0001)-oriented α -Al ₂ O ₃ . <i>Journal of Materials Science</i> , 2009 , 44, 84-92	4.3	4
310	Forming contacts and grain boundaries between MgO nanoparticles. <i>Journal of Materials Science</i> , 2009 , 44, 2408-2418	4.3	28
309	Transmission Electron Microscopy 2009 ,		1044
308	Nanoengineered Transparent, Free-Standing, Conductive Nanofibrous Membranes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19525-19530	3.8	7
307	Reacting Oxide Nanoparticles with a Substrate. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1332-1333	0.5	
306	Thickness and Bending Effects 2009 , 407-417		7
305	Electron Microscopy Analysis of Interfaces in Oxides for Energy Applications. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1444-1445	0.5	1
304	Microscopy of Oxide Nanoparticles for Energy Applications. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1404-1405	0.5	1
303	Metal Nanostructures on Ceramic Surfaces for Energy Applications. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1442-1443	0.5	
302	Structure and growth mechanism of ZnSe nanowires. <i>Journal of Applied Physics</i> , 2008 , 104, 064302	2.5	22
301	Air-stable full-visible-spectrum emission from silicon nanocrystals synthesized by an all-gas-phase plasma approach. <i>Nanotechnology</i> , 2008 , 19, 245603	3.4	112
300	Synthesis and Activity of Co-doped Barium Cerium Zirconate for Hydrogen Reforming and Purification. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1126, 1		1
299	Modified electron-beam-induced deposition of metal nanostructure arrays using a parallel electron beam. <i>Applied Physics Letters</i> , 2008 , 93, 133104	3.4	8
298	In situ high-temperature electron microscopy of 3DOM cobalt, iron oxide, and nickel. <i>Journal of Materials Science</i> , 2008 , 43, 3539-3552	4.3	12

297	Morphology of Semiconductor Nanoparticles. <i>Springer Proceedings in Physics</i> , 2008 , 285-288	0.2	
296	Photosensitization of ZnO nanowires with CdSe quantum dots for photovoltaic devices. <i>Nano Letters</i> , 2007 , 7, 1793-8	11.5	880
295	A crack extension force correlation for hard materials. <i>International Journal of Fracture</i> , 2007 , 148, 109-114	18	
294	Multiple antiferromagnet/ferromagnet interfaces as a probe of grain-size-dependent exchange bias in polycrystalline Co/Fe ₅₀ Mn ₅₀ . <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 309, 54-63	2.8	25
293	Fracturing a nanoparticle. <i>Philosophical Magazine</i> , 2007 , 87, 29-37	1.6	36
292	Compressive stress effects on nanoparticle modulus and fracture. <i>Physical Review B</i> , 2007 , 75,	3.3	84
291	Single nanoparticle semiconductor devices. <i>IEEE Transactions on Electron Devices</i> , 2006 , 53, 2525-2531	2.9	38
290	An Energy Balance Criterion for Nanoindentation-Induced Single and Multiple Dislocation Events. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006 , 73, 327-334	2.7	21
289	Translation-related domain boundaries form to relieve strain in a thin alumina film on NiAl (110). <i>Applied Physics Letters</i> , 2006 , 88, 141902	3.4	17
288	Plasticity responses in ultra-small confined cubes and films. <i>Acta Materialia</i> , 2006 , 54, 4515-4523	8.4	18
287	Herringbone and triangular patterns of dislocations in Ag, Au, and AgAu alloy films on Ru(0 0 0 1). <i>Surface Science</i> , 2006 , 600, 1735-1757	1.8	58
286	In situ deformation of silicon nanospheres. <i>Journal of Materials Science</i> , 2006 , 41, 4477-4483	4.3	65
285	Texture in solid-state reactions. <i>Journal of Materials Science</i> , 2006 , 41, 5169-5184	4.3	2
284	The effects of crystallography on grain-boundary migration in alumina. <i>Journal of Materials Science</i> , 2006 , 41, 661-674	4.3	9
283	Defect structure in GaN pyramids. <i>Journal of Materials Science</i> , 2006 , 41, 779-792	4.3	13
282	Insights into nanoparticle formation mechanisms. <i>Journal of Materials Science</i> , 2006 , 41, 2711-2722	4.3	11
281	Experimental investigations into the formation of nanoparticles in aSi ₃ N ₄ :Si:H thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 034310	2.5	18
280	Single nanoparticle semiconductor devices 2005 ,		2

- 279 Reverse plasticity in single crystal silicon nanospheres. *International Journal of Plasticity*, **2005**, 21, 2391-2405 58
- 278 Epitactic formation of forsterite on MgO single crystals during vacuum annealing. *Surface Science*, **2005**, 587, 205-218 1.8 2
- 277 A boundary constraint energy balance criterion for small volume deformation. *Acta Materialia*, **2005**, 53, 2215-2229 8.4 22
- 276 Electron energy-loss spectroscopic study of the surface of ceria abrasives. *Applied Surface Science*, **2005**, 241, 61-67 6.7 50
- 275 Kinetics of Thin-Film Reactions of Nickel Oxide with Alumina: I, {0001} and {1120} Reaction Couples. *Journal of the American Ceramic Society*, **2005**, 81, 2869-2876 3.8 17
- 274 Kinetics of Thin-Film Reactions of Nickel Oxide with Alumina: II, {1100} and {1102} Reaction Couples. *Journal of the American Ceramic Society*, **2005**, 81, 2877-2884 3.8 12
- 273 Ordered nanostructures by site-specific heterogeneous nucleation. *Philosophical Magazine Letters*, **2005**, 85, 523-531 1 4
- 272 Twin boundaries can be moved by step edges during film growth. *Physical Review Letters*, **2005**, 95, 166105 10.5 15
- 271 Self-assembly via adsorbate-driven dislocation reactions. *Physical Review Letters*, **2004**, 92, 106101 7.4 19
- 270 Nanochemistry of Ceria Abrasive Particles. *Materials Research Society Symposia Proceedings*, **2004**, 818, 200 9
- 269 Nanopatterning on Reconstructed Ceramic Surfaces. *Materials Research Society Symposia Proceedings*, **2004**, 819, N5.8.1
- 268 Plasma synthesis of single-crystal silicon nanoparticles for novel electronic device applications. *Plasma Physics and Controlled Fusion*, **2004**, 46, B97-B109 2 91
- 267 The Effects of Processing on the Morphology of Nanoparticles. *Materials Research Society Symposia Proceedings*, **2004**, 818, 33 2
- 266 Understanding the structure of Si nanoclusters in a/nc-Si:H films using spherical aberration-corrected transmission electron microscopy. *Materials Research Society Symposia Proceedings*, **2004**, 808, 437 3
- 265 Dewetting on the Surface of Rutile. *Materials Research Society Symposia Proceedings*, **2004**, 819, N5.9.1
- 264 Crystallization of Pseudo-orthorhombic Anorthite on Basal Sapphire. *Journal of the American Ceramic Society*, **2004**, 82, 33-42 3.8 10
- 263 SEM Analysis of Oxide Thin Films and Reactions. *Journal of the American Ceramic Society*, **2004**, 82, 1644-1646 3.646 8
- 262 Behavior of MgFe₂O₄ Films on MgO in an Electric Field. *Journal of the American Ceramic Society*, **2004**, 83, 1768-1772 3.8 8

261	Using the FIB to characterize nanoparticle materials. <i>Journal of Microscopy</i> , 2004 , 214, 222-36	1.9	16
260	A method for determining void arrangements in inverse opals. <i>Journal of Microscopy</i> , 2004 , 216, 263-87	1.9	11
259	Remnant grooves on alumina surfaces. <i>Surface Science</i> , 2004 , 573, 391-402	1.8	9
258	Electric Field Singularity Assisted Nanopatterning. <i>Advanced Materials</i> , 2004 , 16, 76-80	2.4	16
257	Hypersonic plasma particle deposition of Si ₃ N ₄ nanostructured coatings. <i>Surface and Coatings Technology</i> , 2004 , 188-189, 364-370	4.4	15
256	The monitoring of grain-boundary grooves in alumina. <i>Philosophical Magazine Letters</i> , 2004 , 84, 21-26	1	14
255	Observation of Si nanocrystals in a/nc-Si:H films by spherical-aberration corrected transmission electron microscopy. <i>Journal of Non-Crystalline Solids</i> , 2004 , 343, 78-84	3.9	13
254	Electron radiation damage of MCM-41 and related materials. <i>Microscopy and Microanalysis</i> , 2003 , 9, 245-635		16
253	Analysis of Grain Boundary Migration in Alumina. <i>Microscopy and Microanalysis</i> , 2003 , 9, 64-65	0.5	
252	Effects Of Sample Preparation In Analysis: Imaging. <i>Microscopy and Microanalysis</i> , 2003 , 9, 102-103	0.5	2
251	Distinct as Snowflakes: the Shapes of Silicon Nanoscale Particles. <i>Microscopy and Microanalysis</i> , 2003 , 9, 394-395	0.5	4
250	Analysis of Amorphous and Oxide Surface Layers on Nanoparticles. <i>Microscopy and Microanalysis</i> , 2003 , 9, 412-413	0.5	7
249	Electron Energy-Loss Spectroscopy of Ceria Abrasives. <i>Microscopy and Microanalysis</i> , 2003 , 9, 420-421	0.5	7
248	Application of Variable CS HRTEM to the Study of Nanoscale Structures. <i>Microscopy and Microanalysis</i> , 2003 , 9, 958-959	0.5	4
247	$\sqrt{3}$, {112} Lateral Twin Boundaries in GaP. <i>Journal of Materials Science</i> , 2003 , 11, 391-401		4
246	Interplay between gas adsorption and dislocation structure on a metal surface. <i>Surface Science</i> , 2003 , 531, 29-38	1.8	13
245	Glass and metals on crystalline oxides. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 2777-2785	6	9
244	Superhard silicon nanospheres. <i>Journal of the Mechanics and Physics of Solids</i> , 2003 , 51, 979-992	5	196

243	Synthesis of highly oriented, single-crystal silicon nanoparticles in a low-pressure, inductively coupled plasma. <i>Journal of Applied Physics</i> , 2003 , 94, 1969-1974	2.5	65
242	Application of FIB and TEM for the Characterization of Dewetting Behavior on Ceramics. <i>Microscopy and Microanalysis</i> , 2002 , 8, 562-563	0.5	3
241	Structure of the (110) antiphase boundary in gallium phosphide. <i>Journal of Microscopy</i> , 2002 , 208, 84-99	1.9	24
240	Dislocations at spinel surfaces. <i>Surface Science</i> , 2002 , 511, 133-146	1.8	5
239	Terraces and ledges on () spinel surfaces. <i>Surface Science</i> , 2002 , 513, L402-L412	1.8	18
238	Indentation deformation and fracture of thin polystyrene films. <i>Thin Solid Films</i> , 2002 , 416, 174-183	2.2	24
237	Kinetics of spinel formation in an external applied electric field. <i>Solid State Ionics</i> , 2002 , 148, 111-121	3.3	16
236	Bunching of Surface Steps and Facet Formation on Alumina Surface. <i>Journal of Materials Research</i> , 2002 , 17, 98-106	2.5	7
235	Precipitation from a reactive silicate on MgO. <i>Journal of Materials Research</i> , 2002 , 17, 3056-3064	2.5	
234	Characterization of Mechanical Deformation of Nanoscale Volumes. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 740, 1		1
233	Dewetting of liquids on ceramic surfaces at high temperatures. <i>Microscopy and Microanalysis</i> , 2002 , 8, 257-67	0.5	3
232	Monitoring Faceting on Ceramic Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		2
231	Synthesis of Crystalline Silicon Nanoparticles in Low-Pressure Inductive Plasmas. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 307		
230	Characterization of Nanoparticle Films and Structures Produced by Hypersonic Plasma Particle Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 740, 1		
229	Investigation of Surface Grooves from Migrating Grain Boundaries. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		1
228	Migration of alumina grain boundaries containing a thin glass film. <i>Acta Materialia</i> , 2001 , 49, 1963-1969	8.4	11
227	Structural features of $\frac{1}{2}$ [110] GaAs tilt grain boundaries. <i>Journal of Materials Science</i> , 2001 , 36, 4511-4518	4.5	1
226	Formation, faceting, and interaction behaviors of antiphase boundaries in GaAs thin films. <i>Journal of Materials Science</i> , 2001 , 36, 4209-4222	4.3	17

- 225 Exuding Liquid from Grain Boundaries in Alumina. *Journal of the American Ceramic Society*, **2001**, 84, 859-862 3
- 224 Adhesion of polymer/organic interfaces by nanoindentation. *Journal of Materials Research*, **2001**, 16, 3378-3388 2.5 26
- 223 Structural Features of $\Sigma 3$ and $\Sigma 9$, [110] GaAs Tilt Grain Boundaries. *Japanese Journal of Applied Physics*, **2001**, 40, 4458-4465 1.4 2
- 222 Influence of Processing Conditions on Structures of 3D Ordered Macroporous Metals Prepared by Colloidal Crystal Templating. *Chemistry of Materials*, **2001**, 13, 4314-4321 9.6 83
- 221 TEM Analysis of an Alumina Bicrystal Section Using a Fib. *Microscopy and Microanalysis*, **2001**, 7, 326-327 0.5 1
- 220 Surface Steps on Flux-Grown Alumina. *Microscopy and Microanalysis*, **2001**, 7, 416-417 0.5 1
- 219 Thickness-fringe Contrast Analysis of Defects in GaN. *Materials Research Society Symposia Proceedings*, **2001**, 673, 1
- 218 Interaction of silicate liquid with a sapphire surface. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2000**, 80, 2651-2674 10
- 217 Glass-Crystal Boundaries in Liquid-Phase Sintered Ceramics. *Materials Research Society Symposia Proceedings*, **2000**, 620, 1
- 216 Nanoindentation Measurements of Mechanical Properties of Polystyrene Thin Films. *Materials Research Society Symposia Proceedings*, **2000**, 649, 7211 3
- 215 Grain Boundary Migration in Alumina. *Materials Research Society Symposia Proceedings*, **2000**, 652, 1
- 214 Exudation of Silicate Liquid from Polycrystalline Alumina. *Materials Research Society Symposia Proceedings*, **2000**, 654, 581
- 213 Glass/Crystal Interfaces in Liquid-Phase Sintered Materials. *Journal of Materials Science*, **2000**, 8, 295-304 3
- 212 Evaporation Spirals on {111} and {001} Surfaces of MgAl₂O₄ Spinel. *Microscopy and Microanalysis*, **2000**, 6, 714-715 0.5
- 211 Silicate Glass and Evaporation from Sapphire Surfaces. *Microscopy and Microanalysis*, **2000**, 6, 388-389 0.5 7
- 210 Migrating Interfaces in Sapphire Bicrystals and Tricrystals. *Microscopy and Microanalysis*, **2000**, 6, 386-387 0.5
- 209 EBSD of Ceramic Materials **2000**, 299-318 10
- 208 Defects in GaN Pyramids Grown on Si(111) Substrates by Selective Lateral Overgrowth. *MRS Internet Journal of Nitride Semiconductor Research*, **1999**, 4, 179-184 3

207	Interfaces In Glass-Containing Ceramics. <i>Microscopy and Microanalysis</i> , 1999 , 5, 98-99	0.5	
206	Statistical Assessment Of Experimental Uncertainty In The Quantitative Analysis Of Strong-Beam A-Fringe Contrast.. <i>Microscopy and Microanalysis</i> , 1999 , 5, 172-173	0.5	
205	Wetting of Anorthite Liquid On m-Sapphire Substrates. <i>Microscopy and Microanalysis</i> , 1999 , 5, 812-813	0.5	2
204	Stacking-Fault Fringes. <i>Microscopy and Microanalysis</i> , 1999 , 5, 694-695	0.5	
203	Weak-Beam Thickness-Fringe Contrast Analysis of Defects in GaN Pyramids. <i>Microscopy and Microanalysis</i> , 1999 , 5, 736-737	0.5	
202	AlN Films grown by electric field induced flux of Al cations. <i>Thin Solid Films</i> , 1999 , 339, 117-119	2.2	1
201	Indentation of Silicate-Glass Films on Al ₂ O ₃ Substrates. <i>Journal of the American Ceramic Society</i> , 1999 , 82, 1803-1808	3.8	14
200	Single-crystal GaN pyramids grown on (111)Si substrates by selective lateral overgrowth. <i>Journal of Crystal Growth</i> , 1999 , 204, 270-274	1.6	26
199	Growth of nickel ferrite thin films using pulsed-laser deposition. <i>Journal of Crystal Growth</i> , 1999 , 206, 299-307	1.6	25
198	Evaluation of the extrinsic and intrinsic stacking-fault energies of GaP. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 1805-1815		1
197	Iron oxide on (001) MgO. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 2887-2898		7
196	Detection of residual stresses in glass-penetrated polycrystalline alumina with nanoindentation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 835-845		2
195	Control of Grain Boundary Microstructures in Liquid-Phase Sintered Alumina. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 586, 59		2
194	Characterization of the Absolute Crystal Polarity across Twin Boundaries in Gallium Phosphide Using Convergent-Beam Electron Diffraction. <i>Microscopy and Microanalysis</i> , 1999 , 5, 173-186	0.5	18
193	Faceting of the interface between Al ₂ O ₃ and anorthite glass. <i>Acta Materialia</i> , 1998 , 46, 2895-2907	8.4	28
192	Defects and site occupancies in Nb-Cr-Ti C15 Laves phase alloys. <i>Scripta Materialia</i> , 1998 , 39, 619-623	5.6	15
191	The {111}/{100} Interface in Cubic Materials and Related Systems. <i>Physica Status Solidi A</i> , 1998 , 166, 37-55		2
190	In-Situ TEM Crystallization of Silicate-Glass Films on Al ₂ O ₃ . <i>Acta Materialia</i> , 1998 , 46, 283-303	8.4	8

189	Stacking defects in the 9R phase at an incoherent twin boundary in copper. <i>Acta Materialia</i> , 1998 , 46, 5135-5142	8.4	66
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