

# C Barry Carter

## List of Publications by Year in descending order

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379  
papers

9,890  
citations

94381

37  
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95218

68  
g-index

391  
all docs

391  
docs citations

391  
times ranked

11194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transmission Electron Microscopy. , 1996, , .		1,729
2	Transmission Electron Microscopy. , 2009, , .		1,592
3	Photosensitization of ZnO Nanowires with CdSe Quantum Dots for Photovoltaic Devices. Nano Letters, 2007, 7, 1793-1798.	4.5	935
4	Growth and Sintering of Fullerene Nanotubes. Science, 1994, 266, 1218-1222.	6.0	285
5	Superhard silicon nanospheres. Journal of the Mechanics and Physics of Solids, 2003, 51, 979-992.	2.3	212
6	The Transmission Electron Microscope. , 1996, , 3-17.		193
7	Ceramic Materials. , 2013, , .		192
8	Crystallography of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> thin film-substrate interfaces. Journal of Materials Research, 1989, 4, 1072-1081.	1.2	147
9	Air-stable full-visible-spectrum emission from silicon nanocrystals synthesized by an all-gas-phase plasma approach. Nanotechnology, 2008, 19, 245603.	1.3	126
10	Mechanisms of surface faceting and coarsening. Surface Science, 1997, 389, 188-200.	0.8	125
11	Observation of the early stages of growth of superconducting thin films by transmission electron microscopy. Applied Physics Letters, 1989, 55, 2348-2350.	1.5	103
12	Plasma synthesis of single-crystal silicon nanoparticles for novel electronic device applications. Plasma Physics and Controlled Fusion, 2004, 46, B97-B109.	0.9	103
13	Steps and the structure of the (0001) $\hat{\alpha}$ -alumina surface. Surface Science, 1997, 370, L168-L172.	0.8	98
14	Surface preparation for the heteroepitactic growth of ceramic thin films. Applied Physics Letters, 1990, 56, 2246-2248.	1.5	94
15	Influence of Processing Conditions on Structures of 3D Ordered Macroporous Metals Prepared by Colloidal Crystal Templating. Chemistry of Materials, 2001, 13, 4314-4321.	3.2	94
16	Compressive stress effects on nanoparticle modulus and fracture. Physical Review B, 2007, 75, .	1.1	94
17	Coupling In Situ TEM and Ex Situ Analysis to Understand Heterogeneous Sodiation of Antimony. Nano Letters, 2015, 15, 6339-6348.	4.5	90
18	Stacking defects in the 9R phase at an incoherent twin boundary in copper. Acta Materialia, 1998, 46, 5135-5142.	3.8	82

#	ARTICLE	IF	CITATIONS
19	Oriented aluminum nitride thin films deposited by pulsed laser ablation. Journal of Applied Physics, 1991, 70, 2871-2873.	1.1	80
20	Functionalized carbon nanotube reinforced scaffolds for bone regenerative engineering: fabrication, <i>in vitro</i> and <i>in vivo</i> evaluation. Biomedical Materials (Bristol), 2014, 9, 035001.	1.7	78
21	Synthesis of highly oriented, single-crystal silicon nanoparticles in a low-pressure, inductively coupled plasma. Journal of Applied Physics, 2003, 94, 1969-1974.	1.1	74
22	In situ deformation of silicon nanospheres. Journal of Materials Science, 2006, 41, 4477-4483.	1.7	74
23	Reverse plasticity in single crystal silicon nanospheres. International Journal of Plasticity, 2005, 21, 2391-2405.	4.1	65
24	Microstructure of hardened and softened zirconia after xenon implantation. Journal of Materials Research, 1991, 6, 1905-1912.	1.2	64
25	Faceting Behavior of Alumina in the Presence of a Glass. Journal of the American Ceramic Society, 1990, 73, 2391-2398.	1.9	63
26	Laser Direct Write Synthesis of Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2016, 7, 3736-3741.	2.1	62
27	Herringbone and triangular patterns of dislocations in Ag, Au, and AgAu alloy films on Ru(0001). Surface Science, 2006, 600, 1735-1757.	0.8	60
28	Surface Morphology of Heat-Treated Ceramic Thin Films. Journal of the American Ceramic Society, 1992, 75, 2463-2478.	1.9	58
29	Electron energy-loss spectroscopic study of the surface of ceria abrasives. Applied Surface Science, 2005, 241, 61-67.	3.1	54
30	Structure of Alumina Grain Boundaries Prepared with and without a Thin Amorphous Intergranular Film. Journal of the American Ceramic Society, 1990, 73, 2485-2493.	1.9	53
31	Dislocations and the reconstruction of (111) fcc metal surfaces. Physical Review B, 1995, 51, 4730-4733.	1.1	51
32	The formation of copper aluminate by solid-state reaction. Journal of Materials Research, 1991, 6, 1958-1963.	1.2	47
33	60° dislocations in (001) GaAs/Si interfaces. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1990, 62, 319-328.	0.7	46
34	Pulsed-Laser Deposition of Barium Titanate Thin Films. Journal of the American Ceramic Society, 1992, 75, 1999-2002.	1.9	44
35	Single nanoparticle semiconductor devices. IEEE Transactions on Electron Devices, 2006, 53, 2525-2531.	1.6	44
36	Solid-Phase Epitaxy of Boehmite-Derived alpha-Alumina on Hematite Seed Crystals. Journal of the American Ceramic Society, 1989, 72, 864-867.	1.9	43

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37	Dynamic observation of the fcc to 9r shear transformation in a copper $\lambda = 3$ incoherent twin boundary. <i>Scripta Materialia</i> , 1996, 35, 837-842.	2.6	43
38	Observation of the early stages of heteroepitaxial growth of BaTiO <sub>3</sub> thin-films. <i>Journal of Materials Research</i> , 1990, 5, 2762-2765.	1.2	41
39	Fracturing a nanoparticle. <i>Philosophical Magazine</i> , 2007, 87, 29-37.	0.7	40
40	Microstructure of epitaxially grown GaAs/ErAs/GaAs. <i>Applied Physics Letters</i> , 1990, 56, 1323-1325.	1.5	39
41	Brownian Motion of Dislocations in Thin Films. <i>Physical Review Letters</i> , 1997, 78, 3507-3510.	2.9	39
42	Destabilization of Zirconia Thermal Barriers in the Presence of V <sub>2</sub> O <sub>5</sub> . <i>Journal of the American Ceramic Society</i> , 1988, 71, 992-1004.	1.9	36
43	Oxygen Evolution during Water Electrolysis from Thin Films Using Bimetallic Oxides of Ir-Pt and Ir-Ru. <i>Journal of the Electrochemical Society</i> , 2013, 160, F716-F730.	1.3	35
44	Nanopatterning by solid-state dewetting on reconstructed ceramic surfaces. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	33
45	Adhesion of polymer-inorganic interfaces by nanoindentation. <i>Journal of Materials Research</i> , 2001, 16, 3378-3388.	1.2	31
46	Forming contacts and grain boundaries between MgO nanoparticles. <i>Journal of Materials Science</i> , 2009, 44, 2408-2418.	1.7	31
47	Faceting of the interface between Al <sub>2</sub> O <sub>3</sub> and anorthite glass. <i>Acta Materialia</i> , 1998, 46, 2895-2907.	3.8	30
48	The 45° grain boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Journal of Materials Research</i> , 1992, 7, 1052-1059.	1.2	29
49	Epitaxy of barium titanate thin films grown on MgO by pulsed-laser ablation. <i>Journal of Materials Research</i> , 1991, 6, 2022-2025.	1.2	28
50	Special grain boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 182, 241-251.	0.6	28
51	Interfacial Control of Reaction Kinetics in Oxides. <i>Physical Review Letters</i> , 1996, 77, 3367-3370.	2.9	28
52	Single-crystal GaN pyramids grown on (111)Si substrates by selective lateral overgrowth. <i>Journal of Crystal Growth</i> , 1999, 204, 270-274.	0.7	28
53	Structure of the (110) antiphase boundary in gallium phosphide. <i>Journal of Microscopy</i> , 2002, 208, 84-99.	0.8	27
54	Characterizing CA <sub>2</sub> and CA <sub>6</sub> using ELNES. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1776-1784.	1.4	27

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55	Indentation deformation and fracture of thin polystyrene films. <i>Thin Solid Films</i> , 2002, 416, 174-183.	0.8	26
56	Multiple antiferromagnet/ferromagnet interfaces as a probe of grain-size-dependent exchange bias in polycrystalline Co/Fe <sub>50</sub> Mn <sub>50</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 309, 54-63.	1.0	26
57	Characterization of the CoGa/GaAs interface. <i>Applied Physics Letters</i> , 1989, 55, 39-41.	1.5	25
58	Occurrence of solid noble-gas inclusions in ion-beam-implanted magnesium oxide. <i>Physical Review B</i> , 1991, 43, 9291-9294.	1.1	25
59	Growth of nickel ferrite thin films using pulsed-laser deposition. <i>Journal of Crystal Growth</i> , 1999, 206, 299-307.	0.7	25
60	Template-free electrochemical synthesis of tin nanostructures. <i>Journal of Materials Science</i> , 2014, 49, 1476-1483.	1.7	25
61	Electrospinning amorphous SiO <sub>2</sub> -TiO <sub>2</sub> and TiO <sub>2</sub> nanofibers using sol-gel chemistry and its thermal conversion into anatase and rutile. <i>Ceramics International</i> , 2018, 44, 4577-4585.	2.3	25
62	An Energy Balance Criterion for Nanoindentation-Induced Single and Multiple Dislocation Events. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006, 73, 327-334.	1.1	24
63	Rigid-body translation and bonding across {110} antiphase boundaries in GaAs. <i>Physical Review Letters</i> , 1991, 66, 2629-2632.	2.9	23
64	A boundary constraint energy balance criterion for small volume deformation. <i>Acta Materialia</i> , 2005, 53, 2215-2229.	3.8	23
65	Structure and growth mechanism of ZnSe nanowires. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	23
66	Catalyst nanoscale assembly from the vapor phase on corrosion resistant supports. <i>Electrochimica Acta</i> , 2013, 107, 632-655.	2.6	23
67	INDENTATION OF STRAINED SILICATE-GLASS FILMS ON ALUMINA SUBSTRATES. <i>Scripta Materialia</i> , 1997, 37, 1869-1875.	2.6	22
68	A crack extension force correlation for hard materials. <i>International Journal of Fracture</i> , 2007, 148, 109-114.	1.1	22
69	Flame-based processing as a practical approach for manufacturing hydrogen evolution electrodes. <i>Journal of Power Sources</i> , 2014, 271, 366-376.	4.0	22
70	In situ TEM observations of the lithiation of molybdenum disulfide. <i>Scripta Materialia</i> , 2015, 107, 22-25.	2.6	22
71	Nucleation of fcc Ta when heating thin films. <i>Scripta Materialia</i> , 2015, 96, 21-24.	2.6	22
72	Early stages of the heteroepitactic growth of hematite on (0001) Al <sub>2</sub> O <sub>3</sub> by transmission electron microscopy. <i>Applied Physics Letters</i> , 1989, 55, 1202-1204.	1.5	21

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73	Terraces and ledges on ( ) spinel surfaces. <i>Surface Science</i> , 2002, 513, L402-L412.	0.8	21
74	Experimental investigations into the formation of nanoparticles in $\text{nc-Si:H}$ thin films. <i>Journal of Applied Physics</i> , 2005, 97, 034310.	1.1	21
75	Dewetting of glass-coated $\text{Al}_2\text{O}_3\{1010\}$ surface. <i>Philosophical Magazine Letters</i> , 1995, 72, 269-275.	0.5	20
76	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.	0.2	20
77	Electron Radiation Damage of MCM-41 and Related Materials. <i>Microscopy and Microanalysis</i> , 2003, 9, 245-263.	0.2	20
78	Observations of fcc and hcp tantalum. <i>Journal of Materials Science</i> , 2015, 50, 3706-3715.	1.7	20
79	Formation, faceting, and interaction behaviors of antiphase boundaries in GaAs thin films. <i>Journal of Materials Science</i> , 2001, 36, 4209-4222.	1.7	19
80	Kinetics of spinel formation in an external applied electric field. <i>Solid State Ionics</i> , 2002, 148, 111-121.	1.3	19
81	Self-Assembly via Adsorbate-Driven Dislocation Reactions. <i>Physical Review Letters</i> , 2004, 92, 106101.	2.9	19
82	Kinetics of Thin-Film Reactions of Nickel Oxide with Alumina: I, (0001) and {1120} Reaction Couples. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2869-2876.	1.9	19
83	Plasticity responses in ultra-small confined cubes and films. <i>Acta Materialia</i> , 2006, 54, 4515-4523.	3.8	19
84	Materials synthesis, electrochemical characterization and oxygen permeation properties of Fe-doped $\text{BaZrO}_3$ . <i>Solid State Ionics</i> , 2014, 266, 58-67.	1.3	19
85	TEM in situ lithiation of tin nanoneedles for battery applications. <i>Journal of Materials Science</i> , 2016, 51, 589-602.	1.7	19
86	Stacking-Fault Energies of GaAs. <i>Physica Status Solidi A</i> , 1993, 136, 29-43.	1.7	18
87	Defects and site occupancies in Nb-Cr-Ti C15 Laves phase alloys. <i>Scripta Materialia</i> , 1998, 39, 619-623.	2.6	18
88	The monitoring of grain-boundary grooves in alumina. <i>Philosophical Magazine Letters</i> , 2004, 84, 21-26.	0.5	18
89	Translation-related domain boundaries form to relieve strain in a thin alumina film on NiAl (110). <i>Applied Physics Letters</i> , 2006, 88, 141902.	1.5	18
90	The effect of an applied electric field on a heterogeneous solid-state reaction. <i>Solid State Ionics</i> , 1997, 101-103, 1327-1333.	1.3	16

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91	Using the FIB to characterize nanoparticle materials. <i>Journal of Microscopy</i> , 2004, 214, 222-236.	0.8	16
92	Electric Field Singularity Assisted Nanopatterning. <i>Advanced Materials</i> , 2004, 16, 76-80.	11.1	16
93	Hypersonic plasma particle deposition of Siâ€Tiâ€N nanostructured coatings. <i>Surface and Coatings Technology</i> , 2004, 188-189, 364-370.	2.2	16
94	Twin Boundaries Can Be Moved by Step Edges During Film Growth. <i>Physical Review Letters</i> , 2005, 95, 166105.	2.9	16
95	Low-temperature and ambient-pressure synthesis and shape evolution of nanocrystalline pure, La-doped and Gd-doped CeO <sub>2</sub> . <i>Applied Surface Science</i> , 2010, 256, 3772-3777.	3.1	16
96	Interfacial Reactions During Processing of Thin Nickel Oxide Films Grown by Pulsed-Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 1992, 285, 373.	0.1	15
97	Structure of the Fe <sub>2</sub> O <sub>3</sub> â€Al <sub>2</sub> O <sub>3</sub> (0001) interface. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 67, 699-727.	0.7	15
98	Nucleation of Solid-State Reactions between Nickel Oxide and Aluminium Oxide. <i>Journal of the American Ceramic Society</i> , 1995, 78, 248-250.	1.9	15
99	Thin-Film Reactions. <i>Zeitschrift Fur Physikalische Chemie</i> , 1998, 206, 73-99.	1.4	15
100	Indentation of Silicateâ€Glass Films on Al <sub>2</sub> O <sub>3</sub> Substrates. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1803-1808.	1.9	15
101	Vertically Stacked 2Hâ€T Dualâ€Phase MoS <sub>2</sub> Microstructures during Lithium Intercalation: A First Principles Study. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6603-6614.	1.9	15
102	Morphology of NiFe <sub>2</sub> O <sub>4</sub> precipitation in NiO. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 1051-1067.	1.9	14
103	Kinetics of NiFe <sub>2</sub> O <sub>4</sub> Precipitation in NiO. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2244-2250.	1.9	14
104	Interplay between gas adsorption and dislocation structure on a metal surface. <i>Surface Science</i> , 2003, 531, 29-38.	0.8	14
105	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.	1.5	14
106	Defect structure in GaN pyramids. <i>Journal of Materials Science</i> , 2006, 41, 779-792.	1.7	14
107	Crystallization of CaAl <sub>4</sub> O <sub>7</sub> and CaAl <sub>12</sub> O <sub>19</sub> powders. <i>Philosophical Magazine</i> , 2009, 89, 605-621.	0.7	14
108	Surface morphology of pulsed-laser deposited aluminium nitride thin films. <i>Journal of Materials Science Letters</i> , 1994, 13, 1275-1277.	0.5	13

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109	Interaction of silicate liquid with a sapphire surface. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2000, 80, 2651-2674.	0.7	13
110	EBSD of Ceramic Materials. , 2000, , 299-318.		13
111	Dislocation configurations in semi-insulating, n-type and p-type GaAs deformed at 150Å°C. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 60, 245-266.	0.7	12
112	Growth of spinel particles on alumina thin filmsâ€”I. Orientation relationships and shape of the particles. Acta Metallurgica Et Materialia, 1994, 42, 2729-2740.	1.9	12
113	Influence of the nature of the (0001) alumina surface on thin film growth. Surface Science, 1997, 391, 183-195.	0.8	12
114	Crystallization of calcium hexaluminate on basal alumina. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 561-575.	0.7	12
115	Migration of alumina grain boundaries containing a thin glass film. Acta Materialia, 2001, 49, 1963-1969.	3.8	12
116	Crystallization of Pseudoâ€”orthorhombic Anorthite on Basal Sapphire. Journal of the American Ceramic Society, 1999, 82, 33-42.	1.9	12
117	Behavior of MgFe <sub>2</sub> O <sub>4</sub> Films on MgO in an Electric Field. Journal of the American Ceramic Society, 2000, 83, 1768-1772.	1.9	12
118	Kinetics of Thinâ€”Film Reactions of Nickel Oxide with Alumina: II, {1100} and {1102} Reaction Couples. Journal of the American Ceramic Society, 1998, 81, 2877-2884.	1.9	12
119	Insights into nanoparticle formation mechanisms. Journal of Materials Science, 2006, 41, 2711-2722.	1.7	12
120	In situ high-temperature electron microscopy of 3DOM cobalt, iron oxide, and nickel. Journal of Materials Science, 2008, 43, 3539-3552.	1.7	12
121	Synthesis of cobalt-doped barium cerate-zirconate and its evaluation for hydrogen production and electrochemical characterization. Journal of Materials Science, 2010, 45, 3215-3227.	1.7	12
122	Hydrothermal Synthesis of Nanocrystalline Barium Cerate Using Hexamethylenetetramine. Journal of the American Ceramic Society, 2010, 93, 4041-4046.	1.9	12
123	Use of Pt Markers in the Study of Solid-State Reactions in the Presence of an Electric Field. Microscopy and Microanalysis, 1998, 4, 158-163.	0.2	11
124	A method for determining void arrangements in inverse opals. Journal of Microscopy, 2004, 216, 263-287.	0.8	11
125	Cryogenic transmission electron microscopy for materials research. MRS Bulletin, 2019, 44, 924-928.	1.7	11
126	Role of Oxygen on Chemical Segregation in Uncapped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Thin Films on Silicon Nitride. ECS Journal of Solid State Science and Technology, 2020, 9, 054007.	0.9	11



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127	A quantitative analysis of strong-beam $\hat{\pm}$ fringes from {110} antiphase boundaries in GaAs. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 63, 1299-1314.	0.7	10
128	A computer program for many-beam image simulation of amplitude-contrast images. Journal of Electron Microscopy Technique, 1991, 18, 429-436.	1.1	10
129	Growth of spinel particles on alumina thin films. Morphology and crystallography of the interface. Acta Metallurgica Et Materialia, 1994, 42, 2741-2752.	1.9	10
130	In-Situ TEM Crystallization of Silicate-Glass Films on Al <sub>2</sub> O <sub>3</sub> . Acta Materialia, 1998, 46, 283-303.	3.8	10
131	Glass and metals on crystalline oxides. Journal of the European Ceramic Society, 2003, 23, 2777-2785.	2.8	10
132	Nanochemistry of Ceria Abrasive Particles. Materials Research Society Symposia Proceedings, 2004, 818, 200.	0.1	10
133	Remnant grooves on alumina surfaces. Surface Science, 2004, 573, 391-402.	0.8	10
134	The effects of crystallography on grain-boundary migration in alumina. Journal of Materials Science, 2006, 41, 661-674.	1.7	10
135	Thickness and Bending Effects. , 2009, , 407-417.		10
136	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.	2.8	10
137	Flame-Based Synthesis of Core-Shell Structures Using Pd-Ru and Pd Cores. Electrochimica Acta, 2014, 138, 341-352.	2.6	10
138	Electron-beam damage and point defects near grain boundaries in cerium oxide. Journal of the European Ceramic Society, 2014, 34, 3007-3018.	2.8	10
139	Plagiarism and detection. Journal of Materials Science, 2016, 51, 7047-7048.	1.7	10
140	Phase evolution and structural modulation during in situ lithiation of MoS <sub>2</sub> , WS <sub>2</sub> and graphite in TEM. Scientific Reports, 2021, 11, 9014.	1.6	10
141	The Structure of Interfaces in Oxide Heterojunctions Formed by CVD. Materials Research Society Symposia Proceedings, 1989, 159, 209.	0.1	9
142	Characterization of BaTiO <sub>3</sub> Thin Films Deposited by Pulsed-Laser Ablation. Materials Research Society Symposia Proceedings, 1990, 201, 183.	0.1	9
143	Moiré patterns and their application to the study of the growth of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films. Journal of Materials Science, 1995, 30, 381-389.	1.7	9
144	Bunching of Surface Steps and Facet Formation on Alumina Surface. Journal of Materials Research, 2002, 17, 98-106.	1.2	9

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145	SEM Analysis of Oxide Thin Films and Reactions. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1644-1646.	1.9	9
146	Modified electron-beam-induced deposition of metal nanostructure arrays using a parallel electron beam. <i>Applied Physics Letters</i> , 2008, 93, 133104.	1.5	9
147	Identification of Star Defects in Gallium Nitride with HREBSD and ECCI. <i>Microscopy and Microanalysis</i> , 2021, 27, 257-265.	0.2	9
148	Direct observation of grain orientation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films. <i>Philosophical Magazine Letters</i> , 1990, 62, 77-82.	0.5	8
149	Effect of substrate temperature and oxygen pressure on the microstructure of thin YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> film deposited on MgO by pulsed-laser ablation. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 182, 30-38.	0.6	8
150	Dissolution of NiFe <sub>2</sub> O <sub>4</sub> particles in a NiO matrix. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 2799-2804.	1.9	8
151	Metal particles on the surfaces of heat-treated ceramic thin films. <i>Surface Science</i> , 1992, 265, 127-138.	0.8	8
152	Compositionally modulated nucleation and growth of barium bismuth oxide thin films on MgO. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 205, 347-353.	0.6	8
153	Structural studies on TlCaBaCuO superconducting thin films. <i>Journal of Materials Research</i> , 1993, 8, 720-726.	1.2	8
154	Volume expansion and lattice rotations in solid-state reactions between oxides. <i>Scripta Metallurgica Et Materialia</i> , 1995, 32, 863-866.	1.0	8
155	Iron oxide on (001) MgO. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999, 79, 2887-2898.	0.7	8
156	Defects in Mbe-Grown GaAs/Sc <sub>x</sub> Er <sub>1-x</sub> As/GaAs Layers. <i>Materials Research Society Symposia Proceedings</i> , 1990, 198, 177.	0.1	7
157	Solid krypton in MgO. <i>Journal of Materials Research</i> , 1992, 7, 3171-3174.	1.2	7
158	Silicate Glass and Evaporation from Sapphire Surfaces. <i>Microscopy and Microanalysis</i> , 2000, 6, 388-389.	0.2	7
159	Analysis of Amorphous and Oxide Surface Layers on Nanoparticles. <i>Microscopy and Microanalysis</i> , 2003, 9, 412-413.	0.2	7
160	Electron Energy-Loss Spectroscopy of Ceria Abrasives. <i>Microscopy and Microanalysis</i> , 2003, 9, 420-421.	0.2	7
161	Nanoengineered Transparent, Free-Standing, Conductive Nanofibrous Membranes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19525-19530.	1.5	7
162	Phase-Change Materials; the Challenges for TEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 1904-1905.	0.2	7

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163	In situ TEM study of crystallization and chemical changes in an oxidized uncapped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> film. Journal of Applied Physics, 2020, 128, 124505.	1.1	7
164	On the Structure of Planar Defects in ALN. Materials Research Society Symposia Proceedings, 1989, 167, 259.	0.1	6
165	Interfaces in Structural Ceramics. MRS Bulletin, 1990, 15, 51-59.	1.7	6
166	Observation of double ribbons in GaAs and AlGaAs. Philosophical Magazine Letters, 1991, 64, 349-355.	0.5	6
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