

I-Wei Chen

List of Publications by Year in descending order

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232
papers

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12322

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Nitrogen-doped mesoporous carbon of extraordinary capacitance for electrochemical energy storage. <i>Science</i> , 2015, 350, 1508-1513.	6.0	1,821
2	Sintering dense nanocrystalline ceramics without final-stage grain growth. <i>Nature</i> , 2000, 404, 168-171.	13.7	1,300
3	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: I, Trivalent Dopants. <i>Journal of the American Ceramic Society</i> , 1994, 77, 118-128.	1.9	527
4	Development of Superplastic Structural Ceramics. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2585-2609.	1.9	497
5	Reactive Cerium(IV) Oxide Powders by the Homogeneous Precipitation Method. <i>Journal of the American Ceramic Society</i> , 1993, 76, 1577-1583.	1.9	360
6	A tough SiAlON ceramic based on $\hat{\pm}$ -Si ₃ N ₄ with a whisker-like microstructure. <i>Nature</i> , 1997, 389, 701-704.	13.7	350
7	Nucleation and growth mechanism of ferroelectric domain-wall motion. <i>Nature</i> , 2007, 449, 881-884.	13.7	340
8	Two-Step Sintering of Ceramics with Constant Grain-Size, I. Y ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 2006, 89, 431-437.	1.9	325
9	Quantum-Tagged Reduced Graphene Oxide Nanocomposites for Bright Fluorescence Bioimaging and Photothermal Therapy Monitored In Situ. <i>Advanced Materials</i> , 2012, 24, 1748-1754.	11.1	320
10	Improved Thermoelectric Properties of Cu-Doped Quaternary Chalcogenides of Cu ₂ CdSnSe ₄ . <i>Advanced Materials</i> , 2009, 21, 3808-3812.	11.1	312
11	Two-Step Sintering of Ceramics with Constant Grain-Size, II: BaTiO ₃ and Ni-Cu-Zn Ferrite. <i>Journal of the American Ceramic Society</i> , 2006, 89, 438-443.	1.9	311
12	A wide-band-gap p-type thermoelectric material based on quaternary chalcogenides of Cu ₂ ZnSnQ ₄ (Q=S,Se). <i>Applied Physics Letters</i> , 2009, 94, .	1.5	292
13	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: II, Tetravalent Dopants. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1281-1288.	1.9	275
14	X-ray-absorption studies of zirconia polymorphs. I. Characteristic local structures. <i>Physical Review B</i> , 1993, 48, 10063-10073.	1.1	263
15	Biomedical nanoparticle carriers with combined thermal and magnetic responses. <i>Nano Today</i> , 2009, 4, 52-65.	6.2	259
16	Grain Size Control of Tetragonal Zirconia Polycrystals Using the Space Charge Concept. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3269-3277.	1.9	248
17	Iron oxide nanoparticles as magnetic resonance contrast agent for tumor imaging via folate receptor-targeted delivery. <i>Academic Radiology</i> , 2004, 11, 996-1004.	1.3	238
18	Temperature-Time Texture Transition of Pb(Zr _{1-x} Ti _x)O ₃ Thin Films: I, Role of Pb-rich Intermediate Phases. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2332-2336.	1.9	233

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19	Grain Growth in CeO ₂ : Dopant Effects, Defect Mechanism, and Solute Drag. Journal of the American Ceramic Society, 1996, 79, 1793-1800.	1.9	225
20	X-ray-absorption studies of zirconia polymorphs. II. Effect of Y ₂ O ₃ dopant on ZrO ₂ structure. Physical Review B, 1993, 48, 10074-10081.	1.1	223
21	A Robust and Conductive Black Tin Oxide Nanostructure Makes Efficient Lithium-Ion Batteries Possible. Advanced Materials, 2017, 29, 1700136.	11.1	212
22	Grain Boundary Mobility in Y ₂ O ₃ : Defect Mechanism and Dopant Effects. Journal of the American Ceramic Society, 1996, 79, 1801-1809.	1.9	204
23	A New Tubular Graphene Form of a Tetrahedrally Connected Cellular Structure. Advanced Materials, 2015, 27, 5943-5949.	11.1	193
24	Implications of Transformation Plasticity in ZrO ₂ -Containing Ceramics: I, Shear and Dilatation Effects. Journal of the American Ceramic Society, 1986, 69, 181-189.	1.9	192
25	Transformation Plasticity of CeO ₂ -Stabilized Tetragonal Zirconia Polycrystals: I, Stress Assistance and Autocatalysis. Journal of the American Ceramic Society, 1988, 71, 343-353.	1.9	187
26	Diffusive growth of grain-boundary cavities. Acta Metallurgica, 1981, 29, 1759-1768.	2.1	176
27	Creep cavitation in 304 stainless steel. Acta Metallurgica, 1981, 29, 1321-1333.	2.1	176
28	Sintering of Fine Oxide Powders: II, Sintering Mechanisms. Journal of the American Ceramic Society, 1997, 80, 637-645.	1.9	167
29	The effect of silica nanoparticle-modified surfaces on cell morphology, cytoskeletal organization and function. Biomaterials, 2008, 29, 3836-3846.	5.7	166
30	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: III, Charge-Compensating Dopants. Journal of the American Ceramic Society, 1994, 77, 1289-1295.	1.9	160
31	Texture Development, Microstructure Evolution, and Crystallization of Chemically Derived PZT Thin Films. Journal of the American Ceramic Society, 1998, 81, 97-105.	1.9	155
32	Transformation Plasticity of CeO ₂ -Stabilized Tetragonal Zirconia Polycrystals: II, Pseudoelasticity and Shape Memory Effect. Journal of the American Ceramic Society, 1988, 71, 648-657.	1.9	141
33	Temperature-Time Texture Transition of Pb(Zr _{1-x} Ti _x)O ₃ Thin Films: II, Heat Treatment and Compositional Effects. Journal of the American Ceramic Society, 1994, 77, 2337-2344.	1.9	140
34	Sintering of Fine Oxide Powders: I, Microstructural Evolution. Journal of the American Ceramic Society, 1996, 79, 3129-3141.	1.9	136
35	Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part I, Bi ₄ Ti ₃ O ₁₂ . Journal of the American Ceramic Society, 1998, 81, 3253-3259.	1.9	134
36	Core-Shell Nanocapsules Stabilized by Single-Component Polymer and Nanoparticles for Magneto-Chemotherapy/Hyperthermia with Multiple Drugs. Advanced Materials, 2012, 24, 3627-3632.	11.1	134

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37	Fatigue of Pb(Zr _{0.53} Ti _{0.47})O ₃ ferroelectric thin films. <i>Journal of Applied Physics</i> , 1998, 83, 7789-7798.	1.1	129
38	Computer Simulation of Final-Stage Sintering: I, Model Kinetics, and Microstructure. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2857-2864.	1.9	123
39	Fatigue of Yttria-Stabilized Zirconia: I, Fatigue Damage, Fracture Origins, and Lifetime Prediction. <i>Journal of the American Ceramic Society</i> , 1991, 74, 1197-1205.	1.9	121
40	Temperature-sensitive Nanocapsules for Controlled Drug Release Caused by Magnetically Triggered Structural Disruption. <i>Advanced Functional Materials</i> , 2009, 19, 616-623.	7.8	117
41	Role of Defect Interaction in Boundary Mobility and Cation Diffusivity of CeO ₂ . <i>Journal of the American Ceramic Society</i> , 1994, 77, 2289-2297.	1.9	115
42	RES blockade: A strategy for boosting efficiency of nanoparticle drug. <i>Nano Today</i> , 2015, 10, 11-21.	6.2	115
43	Cubic-to-Tetragonal (t') Transformation in Zirconia-Containing Systems. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1108-1116.	1.9	112
44	Theory and experiment of martensitic nucleation in ZrO ₂ containing ceramics and ferrous alloys. <i>Acta Metallurgica</i> , 1985, 33, 1827-1845.	2.1	110
45	Fatigue of Yttria-Stabilized Zirconia: II, Crack Propagation, Fatigue Striations, and Short-Crack Behavior. <i>Journal of the American Ceramic Society</i> , 1991, 74, 1206-1216.	1.9	105
46	Structural origin of relaxor perovskites. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 1525-1536.	1.9	105
47	In-Situ Alumina/Aluminate Platelet Composites. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2610-2612.	1.9	103
48	Exaggerated Texture and Grain Growth in a Superplastic SiAlON. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2733-2741.	1.9	101
49	Enhanced Grain Boundary Mobility in Yttria-stabilized Cubic Zirconia under an Electric Current. <i>Journal of the American Ceramic Society</i> , 2011, 94, 4231-4238.	1.9	101
50	Martensitic nucleation in ZrO ₂ . <i>Acta Metallurgica</i> , 1983, 31, 1627-1638.	2.1	99
51	Deformation and Grain Growth of Low-Temperature-Sintered High-Purity Alumina. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3518-3521.	1.9	99
52	Superplastic Flow of Two-Phase Ceramics Containing Rigid Inclusions- Zirconia/Mullite Composites. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1555-1565.	1.9	95
53	Purely Electronic Switching with High Uniformity, Resistance Tunability, and Good Retention in Pt-dispersed SiO ₂ Thin Films for ReRAM. <i>Advanced Materials</i> , 2011, 23, 3847-3852.	11.1	94
54	Photoresponsive Protein-graphene-protein Hybrid Capsules with Dual Targeted Heat-triggered Drug Delivery Approach for Enhanced Tumor Therapy. <i>Advanced Functional Materials</i> , 2014, 24, 4144-4155.	7.8	94

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55	NIR-Triggered Synergic Photochemothermal Therapy Delivered by Reduced Graphene Oxide/Carbon/Mesoporous Silica Nanocookies. <i>Advanced Functional Materials</i> , 2014, 24, 451-459.	7.8	94
56	Toward large-scale water treatment using nanomaterials. <i>Nano Today</i> , 2019, 27, 11-27.	6.2	94
57	Statistics of martensitic nucleation. <i>Acta Metallurgica</i> , 1985, 33, 1847-1859.	2.1	91
58	Bisphosphonate-mediated gene vector delivery from the metal surfaces of stents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 159-164.	3.3	91
59	Solution Mechanisms for Dopant Oxides in Yttria. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1553-1559.	1.9	89
60	Onset Criterion for Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3624-3627.	1.9	86
61	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: I. grain growth study. <i>Journal of the American Ceramic Society</i> , 2017, 100, 876-886.	1.9	85
62	Shear Thickening Creep in Superplastic Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1073-1079.	1.9	83
63	Low-Temperature Sintering of Alumina with Liquid-Forming Additives. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2011-2013.	1.9	81
64	Phase Relationships and Stability of β -SiAlON. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1025-1036.	1.9	79
65	Reaction Hot Pressing of α' - and β' -SiAlON Ceramics. <i>Journal of the American Ceramic Society</i> , 1994, 77, 165-171.	1.9	78
66	X-ray Absorption Studies of Ceria with Trivalent Dopants. <i>Journal of the American Ceramic Society</i> , 1991, 74, 958-967.	1.9	75
67	Microstructure Control of β -Toughened β -SiAlON Ceramics. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1819-1821.	1.9	74
68	Nucleation and Growth of α' -SiAlON on α -Si ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 1994, 77, 1711-1718.	1.9	73
69	Observing Oxygen Vacancy Driven Electroforming in Pt/TiO ₂ /Pt Device via Strong Metal Support Interaction. <i>Nano Letters</i> , 2016, 16, 2139-2144.	4.5	73
70	Steady state power-law creep in heterogeneous alloys with coarse microstructures. <i>Acta Metallurgica</i> , 1979, 27, 785-791.	2.1	72
71	Local Delivery of Gene Vectors From Bare-Metal Stents by Use of a Biodegradable Synthetic Complex Inhibits In-Stent Restenosis in Rat Carotid Arteries. <i>Circulation</i> , 2008, 117, 2096-2103.	1.6	68
72	Kinetics of phase transformations in SiAlON ceramics: I. effects of cation size, composition and temperature. <i>Journal of the European Ceramic Society</i> , 1999, 19, 2325-2335.	2.8	67

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73	Nanoscale Engineering of Biomaterial Surfaces. <i>Advanced Materials</i> , 2007, 19, 553-557.	11.1	67
74	Computer Simulation of Final-Stage Sintering: II, Influence of Initial Pore Size. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2865-2872.	1.9	66
75	A size-dependent nanoscale metal-insulator transition in random materials. <i>Nature Nanotechnology</i> , 2011, 6, 237-241.	15.6	66
76	Predicting the Onset of Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2333-2335.	1.9	65
77	X-ray-absorption studies of zirconia polymorphs. III. Static distortion and thermal distortion. <i>Physical Review B</i> , 1993, 48, 10082-10089.	1.1	64
78	Model of Transformation Toughening in Brittle Materials. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2564-2572.	1.9	62
79	Mechanical and Environmental Factors in the Cyclic and Static Fatigue of Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1153-1161.	1.9	62
80	Nucleation and Growth of beta'-SiAlON. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1719-1728.	1.9	61
81	Superplastic Alumina Ceramics with Grain Growth Inhibitors. <i>Journal of the American Ceramic Society</i> , 1991, 74, 842-845.	1.9	60
82	Bulk dense fine-grain $(1-x)BiScO_3-xPbTiO_3$ ceramics with high piezoelectric coefficient. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	59
83	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: $\langle scp \rangle II \langle /scp \rangle$. Mapping electrode polarization and vacancy condensation in $\langle scp \rangle YSZ \langle /scp \rangle$. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1058-1073.	1.9	58
84	Reaction Densification of alpha'-SiAlON: I, Wetting Behavior and Acid-Base Reactions. <i>Journal of the American Ceramic Society</i> , 1995, 78, 545-552.	1.9	55
85	Grain boundary and interphase boundary sliding in power law creep. <i>Acta Metallurgica</i> , 1979, 27, 749-754.	2.1	54
86	A computational study of yttria-stabilized zirconia: II. Cation diffusion. <i>Acta Materialia</i> , 2017, 126, 438-450.	3.8	52
87	An electronic silicon-based memristor with a high switching uniformity. <i>Nature Electronics</i> , 2019, 2, 66-74.	13.1	51
88	Mobility control of ceramic grain boundaries and interfaces. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993, 166, 51-58.	2.6	50
89	Superplastic Forming of SiAlON Ceramics. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2575-2585.	1.9	50
90	Structural behavior and superconductivity of YBa ₂ Cu ₃ O _x . <i>Solid State Communications</i> , 1987, 63, 997-1001.	0.9	49

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91	Kinetics of phase transformations in SiAlON Ceramics: II. Reaction Paths. Journal of the European Ceramic Society, 1999, 19, 2337-2348.	2.8	47
92	Model experiments on fatigue of Pb(Zr _{0.53} Ti _{0.47})O ₃ ferroelectric thin films. Applied Physics Letters, 1998, 72, 1923-1925.	1.5	46
93	Dynamic-Load-Enabled Ultra-low Power Multiple-State RRAM Devices. Scientific Reports, 2012, 2, 744.	1.6	46
94	Superplastic Alumina at Temperatures below 1300oC Using Charge-Compensating Dopants. Journal of the American Ceramic Society, 1996, 79, 233-238.	1.9	45
95	A stochastic theory of grain growth. Acta Metallurgica, 1987, 35, 1723-1733.	2.1	42
96	Title is missing!. Journal of Materials Science, 2000, 8, 147-156.	1.2	42
97	Effect of Seeding on the Microstructure and Mechanical Properties of SiAlON: III, Comparison of Modifying Cations. Journal of the American Ceramic Society, 2003, 86, 1168-1175.	1.9	42
98	A promising p-type transparent conducting material: Layered oxysulfide [Cu ₂ S ₂][Sr ₃ Sc ₂ O ₅]. Journal of Applied Physics, 2007, 102, 116108.	1.1	42
99	Autonomously Controlled Homogenous Growth of Wafer-Sized High-Quality Graphene via a Smart Janus Substrate. Advanced Functional Materials, 2012, 22, 1033-1039.	7.8	41
100	Classical Superplasticity of SiAlON Ceramics. Journal of the American Ceramic Society, 1997, 80, 1341-1352.	1.9	40
101	Controllable synthesis of silver cyanamide as a new semiconductor photocatalyst under visible-light irradiation. Journal of Materials Chemistry A, 2013, 1, 7942.	5.2	40
102	Fatigue Crack Growth of Silicon Nitride at 1400oC: A Novel Fatigue-Induced Crack-Tip Bridging Phenomenon. Journal of the American Ceramic Society, 1994, 77, 137-142.	1.9	39
103	New progress in development of ferroelectric and piezoelectric nanoceramics. Journal of Advanced Ceramics, 2015, 4, 1-21.	8.9	39
104	Orthorhombic Nb ₂ O ₅ - for Durable High-Rate Anode of Li-Ion Batteries. IScience, 2020, 23, 100767.	1.9	39
105	Mechanisms of cavity growth in creep. Scripta Metallurgica, 1983, 17, 17-22.	1.2	38
106	Superplastic Bulging of Fine-Grained Zirconia. Journal of the American Ceramic Society, 1990, 73, 746-749.	1.9	38
107	Reaction Densification of alpha'-SiAlON: II, Densification Behavior. Journal of the American Ceramic Society, 1995, 78, 553-559.	1.9	38
108	Pressureless Sintering of Si ₃ N ₄ Ceramic Using AlN and Rare-Earth Oxides. Journal of the American Ceramic Society, 1997, 80, 1256-1262.	1.9	38

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109	Potential jumps at transport bottlenecks cause instability of nominally ionic solid electrolytes in electrochemical cells. <i>Acta Materialia</i> , 2020, 199, 264-277.	3.8	38
110	Martensitic growth in ZrO ₂ ∞An in situ, small particle, TEM study of a single-interface transformation. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 1163-1174.	1.9	37
111	Fatigue Deformation Mechanisms of Zirconia Ceramics. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1191-1204.	1.9	37
112	Frequency Spectra of Fatigue of PZT and other Ferroelectric Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 493, 311.	0.1	37
113	<i>In Situ</i> Thermometry Measuring Temperature Flashes Exceeding 1,700∞C in 8∞mol% Y ₂ O ₃ ∞Stabilized Zirconia Under Constant∞Voltage Heating. <i>Journal of the American Ceramic Society</i> , 2013, 96, 697-700.	1.9	37
114	Lipoprotein Nanoplatform for Targeted Delivery of Diagnostic and Therapeutic Agents. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 227-239.	0.8	35
115	A Parallel Circuit Model for Multi∞State Resistive∞Switching Random Access Memory. <i>Advanced Functional Materials</i> , 2012, 22, 546-554.	7.8	35
116	Superior Reliability Via Two∞Step Sintering: Barium Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 191-197.	1.9	35
117	Implications of Transformation Plasticity in ZrO ₂ -Containing Ceramics: II, Elastic-Plastic Indentation. <i>Journal of the American Ceramic Society</i> , 1986, 69, 189-194.	1.9	34
118	Synthesis of ∞SiALON Seed Crystals. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1651-1653.	1.9	34
119	A domain wall model for relaxor ferroelectrics. <i>Ferroelectrics</i> , 1998, 206, 245-263.	0.3	33
120	Effect of top electrode on resistance switching of (Pr, Ca)MnO ₃ thin films. <i>Thin Solid Films</i> , 2006, 515, 2726-2729.	0.8	33
121	Control of Grain-Boundary Pinning in Al ₂ O ₃ /ZrO ₂ Composites with Ce ³⁺ /Ce ⁴⁺ Doping. <i>Journal of the American Ceramic Society</i> , 1992, 75, 822-829.	1.9	32
122	Dynamic Kerr Effect and the Spectral Weight Transfer of the Manganites. <i>Physical Review Letters</i> , 2004, 93, 047402.	2.9	32
123	Effect of Seeding on the Microstructure and Mechanical Properties of ∞SiALON: I, Y∞SiALON. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1254-1259.	1.9	32
124	SUPERCONDUCTIVITY AND THE TAILORING OF LATTICE PARAMETERS OF THE COMPOUND YBa ₂ Cu ₃ O _x ∞*. <i>Advanced Ceramic Materials</i> , 1987, 2, 457-470.	2.3	32
125	Surface-modified silica colloid for diagnostic imaging. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 435-437.	5.0	31
126	Effect of Seeding on the Microstructure and Mechanical Properties of ∞SiALON: II, Ca∞SiALON. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1260-1267.	1.9	31

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127	Thermal Runaway in Mold-Assisted Flash Sintering. Journal of the American Ceramic Society, 2016, 99, 2889-2894.	1.9	31
128	Oxygen potential transition in mixed conducting oxide electrolyte. Acta Materialia, 2018, 156, 399-410.	3.8	31
129	Activation field and fatigue of (Pb, δ La)(Zr, δ Ti)O ₃ thin films. Applied Physics Letters, 1999, 75, 4186-4188.	1.5	30
130	Cause and Prevention of Moisture-Induced Degradation of Resistance Random Access Memory Nanodevices. ACS Nano, 2013, 7, 2302-2311.	7.3	30
131	Scalability of voltage-controlled filamentary and nanometallic resistance memory devices. Nanoscale, 2017, 9, 12690-12697.	2.8	30
132	Cavity growth on a sliding grain boundary. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1983, 14, 2289-2293.	1.4	29
133	Liquid-Phase Growth of Small Crystals for Seeding $\hat{\gamma}$ -SiAlON Ceramics. Journal of the American Ceramic Society, 2004, 87, 1040-1046.	1.9	29
134	Cholesterol-derivatized polyurethane: Characterization and endothelial cell adhesion. Journal of Biomedical Materials Research - Part A, 2005, 72A, 200-212.	2.1	29
135	Phase transformations of oriented Pb(Zr _{1-x} Ti _x)O ₃ thin films from metallo-organic precursors. Ferroelectrics, 1994, 152, 25-30.	0.3	28
136	Rare-Earth Melilite Solid Solution and Its Phase Relations with Neighboring Phases. Journal of the American Ceramic Society, 1996, 79, 2091-2097.	1.9	28
137	R-Curve Behavior of In Situ Toughened γ -SiAlON Ceramics. Journal of the American Ceramic Society, 2001, 84, 884-886.	1.9	28
138	Magnetic impurities in conducting oxides. δ -(Sr _{1-x} La _x)(Ru _{1-x} Fex)O ₃ system. Physical Review B, 2004, 70, .	1.1	28
139	Mobility transition at grain boundaries in two-step sintered 8 mol% yttria-stabilized zirconia. Journal of the American Ceramic Society, 2018, 101, 1857-1869.	1.9	28
140	The Influence of Microstructure on the Mechanical Behavior of Silicon Nitride Ceramics. Materials Research Society Symposia Proceedings, 1992, 287, 147.	0.1	26
141	Formation of β -Silicon Nitride Crystals from (Si,Al,Mg,Y)(O,N) Liquid: I, Phase, Composition, and Shape Evolutions. Journal of the American Ceramic Society, 2003, 86, 1578-1585.	1.9	26
142	Demonstration and modeling of multi-bit resistance random access memory. Applied Physics Letters, 2013, 102, .	1.5	26
143	Plasticity-Induced Fatigue Damage in Ceria-Stabilized Tetragonal Zirconia Polycrystals. Journal of the American Ceramic Society, 1994, 77, 2025-2035.	1.9	25
144	Electro-Sintering of Yttria-Stabilized Cubic Zirconia. Journal of the American Ceramic Society, 2013, 96, 1398-1406.	1.9	25

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145	A computational study of yttria-stabilized zirconia: I. Using crystal chemistry to search for the ground state on a glassy energy landscape. <i>Acta Materialia</i> , 2017, 127, 73-84.	3.8	25
146	Lipoprotein Nanoplatform for Targeted Delivery of Diagnostic and Therapeutic Agents. <i>Molecular Imaging</i> , 2008, 7, 7290.2008.0012.	0.7	24
147	Cracking during Pyrolysis of Oxide Thin Films-Phenomenology, Mechanisms, and Mechanics. <i>Journal of the American Ceramic Society</i> , 1995, 78, 2929-2939.	1.9	23
148	Quasi-static intergranular brittle fracture at 0.5 μm : A non-equilibrium segregation mechanism of sulphur embrittlement in stress-relief cracking of low-alloy steels. <i>Acta Metallurgica</i> , 1986, 34, 1335-1349.	2.1	22
149	Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part II, $\text{PbBi}_{2-x}\text{Nb}_2\text{O}_9$. <i>Journal of the American Ceramic Society</i> , 1998, 81, 3260-3264.	1.9	22
150	Dopant-dependent oxidation behavior of SiAlON ceramics. <i>Journal of Materials Science</i> , 2004, 39, 4855-4860.	1.7	22
151	Optical evidence for transient photoinduced magnetization in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Physical Review B</i> , 2005, 71, .	1.1	22
152	Transformation Plasticity and Transformation Toughening in Mg-PSZ and Ce-TZP. <i>Materials Research Society Symposia Proceedings</i> , 1986, 78, 75.	0.1	21
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