

I-Wei Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4332712/publications.pdf>

Version: 2024-02-01

232
papers

18,809
citations

12322

69
h-index

12933

131
g-index

364
all docs

364
docs citations

364
times ranked

17175
citing authors

#	ARTICLE	IF	CITATIONS
1	DC resistance degradation of SrTiO ₃ : The role of virtual cathode needles and oxygen bubbles. <i>Journal of the American Ceramic Society</i> , 2022, 105, 362-383.	1.9	2
2	Improving Cancer Detection and Treatment by pH-Sensitive Peptide Nanoparticle Drug Delivery Platform: Pharmacokinetics, Toxicity, and Immunogenicity Profile. <i>Advanced NanoBiomed Research</i> , 2022, 2, 2100081.	1.7	3
3	Enhanced mobility of cations and anions in the redox state: The polaronium mechanism. <i>Acta Materialia</i> , 2022, 232, 117941.	3.8	14
4	Transverse and Longitudinal Degradations in Ceramic Solid Electrolytes. <i>Chemistry of Materials</i> , 2022, 34, 5749-5765.	3.2	20
5	Solar activated crude oil cleanup using net-shape-formed ultralight graphene tiles. <i>Applied Materials Today</i> , 2020, 19, 100551.	2.3	4
6	Sulfur-terminated tin oxides for durable, highly reversible storage of large-capacity lithium. <i>Journal of Materials Chemistry A</i> , 2020, 8, 626-631.	5.2	11
7	Orthorhombic Nb ₂ O ₅ - for Durable High-Rate Anode of Li-Ion Batteries. <i>IScience</i> , 2020, 23, 100767.	1.9	39
8	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
9	DC electrical degradation of YSZ: Voltage-controlled electrical metallization of a fast ion conducting insulator. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3178-3193.	1.9	17
10	SiO ₂ stabilizes electrochemically active nitrogen in few-layer carbon electrodes of extraordinary capacitance. <i>Journal of Energy Chemistry</i> , 2020, 49, 179-188.	7.1	7
11	Nitrogen-doped black titania for high performance supercapacitors. <i>Science China Materials</i> , 2020, 63, 1227-1234.	3.5	17
12	Electrodes with Electrodeposited Water-excluding Polymer Coating Enable High-Voltage Aqueous Supercapacitors. <i>Research</i> , 2020, 2020, 4178179.	2.8	6
13	Toward large-scale water treatment using nanomaterials. <i>Nano Today</i> , 2019, 27, 11-27.	6.2	94
14	An electronic silicon-based memristor with a high switching uniformity. <i>Nature Electronics</i> , 2019, 2, 66-74.	13.1	51
15	Mobility transition at grain boundaries in two-step sintered 8 mol% yttria-stabilized zirconia. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1857-1869.	1.9	28
16	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: Mapping electrode polarization and vacancy condensation in YSZ. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1058-1073.	1.9	58
17	Biomimetic nano-surfactant stabilizes sub-50 nanometer phospholipid particles enabling high paclitaxel payload and deep tumor penetration. <i>Biomaterials</i> , 2018, 181, 240-251.	5.7	8
18	Oxygen potential transition in mixed conducting oxide electrolyte. <i>Acta Materialia</i> , 2018, 156, 399-410.	3.8	31

#	ARTICLE	IF	CITATIONS
19	Purely electronic nanometallic resistance switching random-access memory. MRS Bulletin, 2018, 43, 358-364.	1.7	15
20	A computational study of yttria-stabilized zirconia: II. Cation diffusion. Acta Materialia, 2017, 126, 438-450.	3.8	52
21	A computational study of yttria-stabilized zirconia: I. Using crystal chemistry to search for the ground state on a glassy energy landscape. Acta Materialia, 2017, 127, 73-84.	3.8	25
22	A Robust and Conductive Black Tin Oxide Nanostructure Makes Efficient Lithium-Ion Batteries Possible. Advanced Materials, 2017, 29, 1700136.	11.1	212
23	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: I. grain growth study. Journal of the American Ceramic Society, 2017, 100, 876-886.	1.9	85
24	Peptide nanoparticle with pH-sensing cargo solubility enhances cancer drug efficiency. Nano Today, 2017, 13, 15-22.	6.2	11
25	Probing material conductivity in two-terminal devices by resistance difference. Applied Physics Letters, 2017, 111, 083501.	1.5	2
26	Scalability of voltage-controlled filamentary and nanometallic resistance memory devices. Nanoscale, 2017, 9, 12690-12697.	2.8	30
27	A novel ultralight three-dimensional house-of-cards titania monolith for extraordinary heavy-metal adsorption. Journal of Materials Chemistry A, 2017, 5, 15724-15729.	5.2	9
28	Frequency-dependence of the switching voltage in electronic switching of Pt-dispersed SiO ₂ thin films. Journal of the Korean Physical Society, 2016, 68, 1403-1408.	0.3	0
29	Tuning resistance states by thickness control in an electroforming-free nanometallic complementary resistance random access memory. Applied Physics Letters, 2016, 108, .	1.5	4
30	Distinguishing uniform switching from filamentary switching in resistance memory using a fracture test. Nanoscale, 2016, 8, 18113-18120.	2.8	8
31	Thermal Runaway in Mold-Assisted Flash Sintering. Journal of the American Ceramic Society, 2016, 99, 2889-2894.	1.9	31
32	Biodegradable resistive switching memory based on magnesium difluoride. Nanoscale, 2016, 8, 15048-15055.	2.8	20
33	Observing Oxygen Vacancy Driven Electroforming in Pt-TiO ₂ -Pt Device via Strong Metal Support Interaction. Nano Letters, 2016, 16, 2139-2144.	4.5	73
34	Superior Reliability Via Two-Step Sintering: Barium Titanate Ceramics. Journal of the American Ceramic Society, 2016, 99, 191-197.	1.9	35
35	Onset Criterion for Flash Sintering. Journal of the American Ceramic Society, 2015, 98, 3624-3627.	1.9	86
36	Predicting the Onset of Flash Sintering. Journal of the American Ceramic Society, 2015, 98, 2333-2335.	1.9	65

#	ARTICLE	IF	CITATIONS
37	A New Tubular Graphene Form of a Tetrahedrally Connected Cellular Structure. <i>Advanced Materials</i> , 2015, 27, 5943-5949.	11.1	193
38	Nitrogen-doped mesoporous carbon of extraordinary capacitance for electrochemical energy storage. <i>Science</i> , 2015, 350, 1508-1513.	6.0	1,821
39	RES blockade: A strategy for boosting efficiency of nanoparticle drug. <i>Nano Today</i> , 2015, 10, 11-21.	6.2	115
40	New progress in development of ferroelectric and piezoelectric nanoceramics. <i>Journal of Advanced Ceramics</i> , 2015, 4, 1-21.	8.9	39
41	Nanofilament Dynamics in Resistance Memory: Model and Validation. <i>ACS Nano</i> , 2015, 9, 7649-7660.	7.3	19
42	A study of the relationship of metabolic MR parameters to estrogen dependence in breast cancer xenografts. <i>NMR in Biomedicine</i> , 2015, 28, 1087-1096.	1.6	4
43	Quantitative Evaluation of the Reticuloendothelial System Function with Dynamic MRI. <i>PLoS ONE</i> , 2014, 9, e103576.	1.1	21
44	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
45	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
46	Resolving Voltage-Time Dilemma Using an Atomic-Scale Lever of Subpicosecond Electron-Phonon Interaction. <i>Nano Letters</i> , 2014, 14, 5058-5067.	4.5	18
47	Effects of moisture barriers on resistive switching in Pt-dispersed SiO ₂ nanometallic thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 235-239.	1.1	11
48	Cause and Prevention of Moisture-Induced Degradation of Resistance Random Access Memory Nanodevices. <i>ACS Nano</i> , 2013, 7, 2302-2311.	7.3	30
49	Electro-Sintering of Yttria-Stabilized Cubic Zirconia. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1398-1406.	1.9	25
50	Controllable synthesis of silver cyanamide as a new semiconductor photocatalyst under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7942.	5.2	40
51	Ionomigration of Pores and Gas Bubbles in Yttria-Stabilized Cubic Zirconia. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1090-1098.	1.9	14
52	Demonstration and modeling of multi-bit resistance random access memory. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	26
53	<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
54	Dynamic-Load-Enabled Ultra-low Power Multiple-State RRAM Devices. <i>Scientific Reports</i> , 2012, 2, 744.	1.6	46

#	ARTICLE	IF	CITATIONS
55	Influence of surface charge and protein intermediary layer on the formation of biomimetic calcium phosphate on silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 19562.	6.7	10
56	Core-shell Nanocapsules Stabilized by Single-Component Polymer and Nanoparticles for Magneto-chemotherapy/Hyperthermia with Multiple Drugs. <i>Advanced Materials</i> , 2012, 24, 3627-3632.	11.1	134
57	Ionomigration of Neutral Phases in Ionic Conductors. <i>Advanced Energy Materials</i> , 2012, 2, 1383-1389.	10.2	20
58	A Parallel Circuit Model for Multi-State Resistive Switching Random Access Memory. <i>Advanced Functional Materials</i> , 2012, 22, 546-554.	7.8	35
59	Autonomously Controlled Homogenous Growth of Wafer-Sized High-Quality Graphene via a Smart Janus Substrate. <i>Advanced Functional Materials</i> , 2012, 22, 1033-1039.	7.8	41
60	Quantum-Dot-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
61	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
62	High Temperature Mechanical Properties of Dense AlN/SiC Ceramics Fabricated by Spark Plasma Sintering Without Sintering Additives. <i>Journal of the American Ceramic Society</i> , 2011, 94, 4150-4153.	1.9	11
63	A size-dependent nanoscale metal-insulator transition in random materials. <i>Nature Nanotechnology</i> , 2011, 6, 237-241.	15.6	66
64	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
65	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
66	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
67	Improved Thermoelectric Properties of Cu-Doped Quaternary Chalcogenides of $\text{Cu}_2\text{CdSnSe}_4$. <i>Advanced Materials</i> , 2009, 21, 3808-3812.	11.1	312
68	ζ -potential characterization of collagen and bovine serum albumin modified silica nanoparticles: a comparative study. <i>Journal of Materials Science</i> , 2009, 44, 1374-1380.	1.7	15
69	Biomedical nanoparticle carriers with combined thermal and magnetic responses. <i>Nano Today</i> , 2009, 4, 52-65.	6.2	259
70	A wide-band-gap p-type thermoelectric material based on quaternary chalcogenides of $\text{Cu}_2\text{ZnSnQ}_4$ (Q=S,Se). <i>Applied Physics Letters</i> , 2009, 94, .	1.5	292
71	Control of strain relaxation in tensile and compressive oxide thin films. <i>Acta Materialia</i> , 2008, 56, 5312-5321.	3.8	10
72	The effect of silica nanoparticle-modified surfaces on cell morphology, cytoskeletal organization and function. <i>Biomaterials</i> , 2008, 29, 3836-3846.	5.7	166

#	ARTICLE	IF	CITATIONS
73	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
74	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
75	Lipoprotein Nanoplatform for Targeted Delivery of Diagnostic and Therapeutic Agents. <i>Molecular Imaging</i> , 2008, 7, 7290.2008.0012.	0.7	24
76	A promising p-type transparent conducting material: Layered oxysulfide $[Cu_2S_2][Sr_3Sc_2O_5]$. <i>Journal of Applied Physics</i> , 2007, 102, 116108.	1.1	42
77	Nanoscale Engineering of Biomaterial Surfaces. <i>Advanced Materials</i> , 2007, 19, 553-557.	11.1	67
78	Nucleation and growth mechanism of ferroelectric domain-wall motion. <i>Nature</i> , 2007, 449, 881-884.	13.7	340
79	Fracture Resistance and Contact Damage of TiN Particle Reinforced Si_3N_4 Ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 1049-1053.	1.3	17
80	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
81	Two-Step Sintering of Ceramics with Constant Grain-Size, I. Y_2O_3 . <i>Journal of the American Ceramic Society</i> , 2006, 89, 431-437.	1.9	325
82	The Effect of Powder Mixing Procedures on α - $SiAlON$. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1110-1113.	1.9	7
83	Elimination of Grain Boundary Glass in α - $SiAlON$ by Adding Aluminium Nitride. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1065-1071.	1.9	7
84	Machinable α - $SiAlON/BN$ Composites. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060428035142022-???	1.9	5
85	Refractory α - $SiAlON$ Containing La_2O_3 . <i>Journal of the American Ceramic Society</i> , 2006, 89, 060623005134008-???	1.9	3
86	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
87	Prevention of oxidative degradation of polyurethane by covalent attachment of di-tert-butylphenol residues. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 653-661.	2.1	20
88	A-site substitution of $SrRuO_3$ using La, K and Pb. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9215-9220.	0.7	6
89	Strain relaxation in buried $SrRuO_3$ layer in $(Ca_{1-x}Sr_x)(Zr_{1-x}Ru_x)O_3-SrRuO_3-SrTiO_3$ system. <i>Applied Physics Letters</i> , 2006, 89, 031905.	1.5	8
90	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

#	ARTICLE	IF	CITATIONS
91	Sintering of Nanoceramics. , 2006, , .		4
92	Cholesterol-derivatized polyurethane: Characterization and endothelial cell adhesion. Journal of Biomedical Materials Research - Part A, 2005, 72A, 200-212.	2.1	29
93	Dependence of Electrode on Switching Effect of Pr _{1-x} Ca _x MnO ₃ Thin Film. Japanese Journal of Applied Physics, 2005, 44, 1260-1261.	0.8	15
94	Resistance Switching of Al/(Pr,Ca)MnO ₃ Thin Films. Japanese Journal of Applied Physics, 2005, 44, L525-L527.	0.8	8
95	Optical evidence for transient photoinduced magnetization inLa _{0.7} Ca _{0.3} MnO ₃ . Physical Review B, 2005, 71, .	1.1	22
96	Atomistic Simulation of Ferroelectric Domain Walls. , 2005, , 2843-2847.		0
97	Atomistic Simulation of Ferroelectric Domain Walls. , 2005, , 2843-2847.		0
98	Dynamic Kerr Effect and the Spectral Weight Transfer of the Manganites. Physical Review Letters, 2004, 93, 047402.	2.9	32
99	Magnetic impurities in conducting oxides.â€l.(Sr _{1-x} La _x)(Ru _{1-x} Fex)O ₃ system. Physical Review B, 2004, 70, .	1.1	28
100	Magnetic impurities in conducting oxides.â€l.(Sr _{1-x} La _x)(Ru _{1-x} Cox)O ₃ system. Physical Review B, 2004, 70, .	1.1	21
101	Liquidâ€Phase Growth of Small Crystals for Seeding Î±â€SiAlON Ceramics. Journal of the American Ceramic Society, 2004, 87, 1040-1046.	1.9	29
102	Dopant-dependent oxidation behavior of Î±-SiAlON ceramics. Journal of Materials Science, 2004, 39, 4855-4860.	1.7	22
103	Iron oxide nanoparticles as magnetic resonance contrast agent for tumor imaging via folate receptor-targeted delivery1. Academic Radiology, 2004, 11, 996-1004.	1.3	238
104	Surface-modified silica colloid for diagnostic imaging. Journal of Colloid and Interface Science, 2003, 258, 435-437.	5.0	31
105	Accelerated precipitate coarsening due to a concomitant secondary phase transformation. Acta Materialia, 2003, 51, 1691-1703.	3.8	10
106	Effect of Seeding on the Microstructure and Mechanical Properties of Î±â€SiAlON: III, Comparison of Modifying Cations. Journal of the American Ceramic Society, 2003, 86, 1168-1175.	1.9	42
107	Formation of Î²â€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
108	Formation of Î²â€Silicon Nitride Crystals from (Si,Al,Mg,Y)(O,N) Liquid: II, Population Dynamics and Coarsening Kinetics. Journal of the American Ceramic Society, 2003, 86, 1586-1591.	1.9	3

#	ARTICLE	IF	CITATIONS
109	Development of Tough $\hat{\pm}$ -SiAlON. Key Engineering Materials, 2003, 237, 65-78.	0.4	17
110	Effect of Phase Stability on the Microstructure Development of $\hat{\pm}$ -SiAlON Ceramics. Journal of Korean Powder Metallurgy Institute, 2003, 10, 118-122.	0.2	0
111	Paraffin-Based Process for Producing Layered Composites with Cellular Microstructures. Journal of the American Ceramic Society, 2002, 85, 1013-1015.	1.9	6
112	Effect of Seeding on the Microstructure and Mechanical Properties of $\hat{\pm}$ -SiAlON: I, Y-SiAlON. Journal of the American Ceramic Society, 2002, 85, 1254-1259.	1.9	32
113	Effect of Seeding on the Microstructure and Mechanical Properties of $\hat{\pm}$ -SiAlON: II, Ca-SiAlON. Journal of the American Ceramic Society, 2002, 85, 1260-1267.	1.9	31
114	Effect of Heating Schedule on the Microstructure and Fracture Toughness of $\hat{\pm}$ -SiAlON Cause and Solution. Journal of the American Ceramic Society, 2002, 85, 1882-1884.	1.9	14
115	R-Curve Behavior of In Situ Toughened $\hat{\pm}$ -SiAlON Ceramics. Journal of the American Ceramic Society, 2001, 84, 884-886.	1.9	28
116	Synthesis of $\hat{\pm}$ -SiAlON Seed Crystals. Journal of the American Ceramic Society, 2001, 84, 1651-1653.	1.9	34
117	Sintering dense nanocrystalline ceramics without final-stage grain growth. Nature, 2000, 404, 168-171.	13.7	1,300
118	Crack Deflection in Composites with Very Thin Interlayers. Journal of the American Ceramic Society, 2000, 83, 3222-3224.	1.9	4
119	Title is missing!. Journal of Materials Science, 2000, 8, 147-156.	1.2	42
120	Reply to "Comment on "Morphology of Silicon Nitride Grown from a Liquid Phase" Journal of the American Ceramic Society, 2000, 83, 677-678.	1.9	1
121	Microstructure Control of In Situ Toughened $\hat{\pm}$ -SiAlON Ceramics. Journal of the American Ceramic Society, 2000, 83, 1819-1821.	1.9	74
122	Kinetics of phase transformations in SiAlON ceramics: I. effects of cation size, composition and temperature. Journal of the European Ceramic Society, 1999, 19, 2325-2335.	2.8	67
123	Kinetics of phase transformations in SiAlON Ceramics: II. Reaction Paths. Journal of the European Ceramic Society, 1999, 19, 2337-2348.	2.8	47
124	Phase Relationships and Stability of $\hat{\pm}$ -SiAlON. Journal of the American Ceramic Society, 1999, 82, 1025-1036.	1.9	79
125	Activation field and fatigue of (Pb, $\hat{\pm}$ La)(Zr, $\hat{\pm}$ Ti)O ₃ thin films. Applied Physics Letters, 1999, 75, 4186-4188.	1.5	30
126	Solution Mechanisms for Dopant Oxides in Yttria. Journal of the American Ceramic Society, 1999, 82, 1553-1559.	1.9	89

#	ARTICLE	IF	CITATIONS
127	Bimaterial Composites via Colloidal Rolling Techniques: I, Microstructure Evolution during Rolling. Journal of the American Ceramic Society, 1999, 82, 3413-3421.	1.9	15
128	Bimaterial Composites via Colloidal Rolling Techniques: II, Sintering Behavior and Thermal Stresses. Journal of the American Ceramic Society, 1999, 82, 3422-3429.	1.9	14
129	Bimaterial Composites via Colloidal Rolling Techniques: III, Mechanical Properties. Journal of the American Ceramic Society, 1999, 82, 3430-3440.	1.9	12
130	Model for Fatigue Crack Growth in Grain-Bridging Ceramics. Journal of the American Ceramic Society, 1999, 82, 3549-3560.	1.9	6
131	Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part I, $\text{Bi}_4\text{Ti}_3\text{O}_{12}$. Journal of the American Ceramic Society, 1998, 81, 3253-3259.	1.9	134
132	Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part II, $\text{PbBi}_2\text{Nb}_2\text{O}_9$. Journal of the American Ceramic Society, 1998, 81, 3260-3264.	1.9	22
133	Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part III, $\text{SrBi}_2\text{Nb}_2\text{O}_9$ and c-Oriented $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Template. Journal of the American Ceramic Society, 1998, 81, 3265-3269.	1.9	13
134	Fatigue of $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ ferroelectric thin films. Journal of Applied Physics, 1998, 83, 7789-7798.	1.1	129
135	Model experiments on fatigue of $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ ferroelectric thin films. Applied Physics Letters, 1998, 72, 1923-1925.	1.5	46
136	A domain wall model for relaxor ferroelectrics. Ferroelectrics, 1998, 206, 245-263.	0.3	33
137	A Lorentz field theory for ferroelectric transitions in layered perovskites. Ferroelectrics, 1998, 208-209, 237-256.	0.3	2
138	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
139	Morphology of Silicon Nitride Grown from a Liquid Phase. Journal of the American Ceramic Society, 1998, 81, 2677-2686.	1.9	20
140	Texture Development, Microstructure Evolution, and Crystallization of Chemically Derived PZT Thin Films. , 1998, 81, 97.		1
141	Ferroelectric Thin Films of Bi-Containing Layered Perovskites. Materials Research Society Symposia Proceedings, 1997, 493, 261.	0.1	4
142	Frequency Spectra of Fatigue of PZT and other Ferroelectric Thin Films. Materials Research Society Symposia Proceedings, 1997, 493, 311.	0.1	37
143	Sintering of Fine Oxide Powders: II, Sintering Mechanisms. Journal of the American Ceramic Society, 1997, 80, 637-645.	1.9	167
144	A tough SiAlON ceramic based on Si_3N_4 with a whisker-like microstructure. Nature, 1997, 389, 701-704.	13.7	350

#	ARTICLE	IF	CITATIONS
145	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
146	Classical Superplasticity of SiAlON Ceramics. Journal of the American Ceramic Society, 1997, 80, 1341-1352.	1.9	40
147	High temperature crack growth in silicon nitride under static and cyclic loading: Short-crack behavior and brittle-ductile transition. Acta Materialia, 1996, 44, 2079-2092.	3.8	16
148	Structural origin of relaxor perovskites. Journal of Physics and Chemistry of Solids, 1996, 57, 1525-1536.	1.9	105
149	Superplastic Alumina at Temperatures below 1300°C Using Charge-Compensating Dopants. Journal of the American Ceramic Society, 1996, 79, 233-238.	1.9	45
150	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
151	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
152	Sintering of Fine Oxide Powders: I, Microstructural Evolution. Journal of the American Ceramic Society, 1996, 79, 3129-3141.	1.9	136
153	SiAlON Composites Containing Rare-Earth Melilite and Neighboring Phases. Journal of the American Ceramic Society, 1996, 79, 2081-2090.	1.9	9
154	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
155	Fracture Mechanics of Fatigue of Structural Ceramics. , 1996, , 1-13.		1
156	Reaction Densification of alpha'-SiAlON: I, Wetting Behavior and Acid-Base Reactions. Journal of the American Ceramic Society, 1995, 78, 545-552.	1.9	55
157	Reaction Densification of alpha'-SiAlON: II, Densification Behavior. Journal of the American Ceramic Society, 1995, 78, 553-559.	1.9	38
158	Cracking during Pyrolysis of Oxide Thin Films-Phenomenology, Mechanisms, and Mechanics. Journal of the American Ceramic Society, 1995, 78, 2929-2939.	1.9	23
159	Effects of temperature, rate, and cyclic loading on the strength and toughness of monolithic ceramics. Acta Metallurgica Et Materialia, 1995, 43, 1439-1446.	1.9	18
160	Local atomic structure of Pb(Zn _{1/3} Nb _{2/3})O ₃ and related perovskites I. An xanes study of ionicity/covalency. Ferroelectrics, 1994, 158, 229-234.	0.3	6
161	Role of Defect Interaction in Boundary Mobility and Cation Diffusivity of CeO ₂ . Journal of the American Ceramic Society, 1994, 77, 2289-2297.	1.9	115
162	Temperature-Time Texture Transition of Pb(Zr _{1-x} Ti _x)O ₃ Thin Films: I, Role of Pb-rich Intermediate Phases. Journal of the American Ceramic Society, 1994, 77, 2332-2336.	1.9	233

#	ARTICLE	IF	CITATIONS
163	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
164	Superplastic Forming of SiAlON Ceramics. Journal of the American Ceramic Society, 1994, 77, 2575-2585.	1.9	50
165	Mechanical and Environmental Factors in the Cyclic and Static Fatigue of Silicon Nitride. Journal of the American Ceramic Society, 1994, 77, 1153-1161.	1.9	62
166	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: II, Tetravalent Dopants. Journal of the American Ceramic Society, 1994, 77, 1281-1288.	1.9	275
167	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
168	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: I, Trivalent Dopants. Journal of the American Ceramic Society, 1994, 77, 118-128.	1.9	527
169	Fatigue Crack Growth of Silicon Nitride at 1400°C: A Novel Fatigue-Induced Crack-Tip Bridging Phenomenon. Journal of the American Ceramic Society, 1994, 77, 137-142.	1.9	39
170	Reaction Hot Pressing of alpha'- and beta'- SiAlON Ceramics. Journal of the American Ceramic Society, 1994, 77, 165-171.	1.9	78
171	Nucleation and Growth of alpha'-SiAlON on alpha-Si ₃ N ₄ . Journal of the American Ceramic Society, 1994, 77, 1711-1718.	1.9	73
172	Nucleation and Growth of beta'-SiAlON. Journal of the American Ceramic Society, 1994, 77, 1719-1728.	1.9	61
173	Plasticity-Induced Fatigue Damage in Ceria-Stabilized Tetragonal Zirconia Polycrystals. Journal of the American Ceramic Society, 1994, 77, 2025-2035.	1.9	25
174	Local atomic structures of Pb(Zn _{1/3} Nb _{2/3})O ₃ and related perovskites II. An exafs study of cation distortions. Ferroelectrics, 1994, 158, 235-240.	0.3	2
175	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
176	Mobility control of ceramic grain boundaries and interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 166, 51-58.	2.6	50
177	Reactive Cerium(IV) Oxide Powders by the Homogeneous Precipitation Method. Journal of the American Ceramic Society, 1993, 76, 1577-1583.	1.9	360
178	A New SiC-Whisker-Reinforced Lithium Aluminosilicate Composite. Journal of the American Ceramic Society, 1993, 76, 2785-2789.	1.9	10
179	X-ray-absorption studies of zirconia polymorphs. I. Characteristic local structures. Physical Review B, 1993, 48, 10063-10073.	1.1	263
180	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

#	ARTICLE	IF	CITATIONS
181	X-ray-absorption studies of zirconia polymorphs. III. Static distortion and thermal distortion. Physical Review B, 1993, 48, 10082-10089.	1.1	64
182	Atomic Structure Studies of Zirconia Solid Solutions by EXAFS. Materials Research Society Symposia Proceedings, 1993, 307, 27.	0.1	5
183	The Influence of Microstructure on the Mechanical Behavior of Silicon Nitride Ceramics. Materials Research Society Symposia Proceedings, 1992, 287, 147.	0.1	26
184	Perplastic SiAlON—A Bird's Eye View of Silicon Nitride Ceramics. Materials Research Society Symposia Proceedings, 1992, 287, 209.	0.1	5
185	Control of Grain-Boundary Pinning in Al ₂ O ₃ /ZrO ₂ Composites with Ce ³⁺ /Ce ⁴⁺ Doping. Journal of the American Ceramic Society, 1992, 75, 822-829.	1.9	32
186	Exaggerated Texture and Grain Growth in a Superplastic SiAlON. Journal of the American Ceramic Society, 1992, 75, 2733-2741.	1.9	101
187	Shear Thickening Creep in Superplastic Silicon Nitride. Journal of the American Ceramic Society, 1992, 75, 1073-1079.	1.9	83
188	Fabrication of Mullite Body Using Superplastic Transient Phase. Journal of the American Ceramic Society, 1992, 75, 1085-1091.	1.9	17
189	Cubic-to-Tetragonal (t') Transformation in Zirconia-Containing Systems. Journal of the American Ceramic Society, 1992, 75, 1108-1116.	1.9	112
190	Fatigue Deformation Mechanisms of Zirconia Ceramics. Journal of the American Ceramic Society, 1992, 75, 1191-1204.	1.9	37
191	In-Situ Alumina/Aluminate Platelet Composites. Journal of the American Ceramic Society, 1992, 75, 2610-2612.	1.9	103
192	Hot Extrusion of Ceramics. Journal of the American Ceramic Society, 1992, 75, 1846-1853.	1.9	10
193	Solute Drag on Grain Boundary in Ionic Solids—the Space Charge Effect. , 1992, , 254-267.		4
194	Fatigue of Yttria-Stabilized Zirconia: I, Fatigue Damage, Fracture Origins, and Lifetime Prediction. Journal of the American Ceramic Society, 1991, 74, 1197-1205.	1.9	121
195	Fatigue of Yttria-Stabilized Zirconia: II, Crack Propagation, Fatigue Striations, and Short-Crack Behavior. Journal of the American Ceramic Society, 1991, 74, 1206-1216.	1.9	105
196	X-ray Absorption Studies of Ceria with Trivalent Dopants. Journal of the American Ceramic Society, 1991, 74, 958-967.	1.9	75
197	Model of Transformation Toughening in Brittle Materials. Journal of the American Ceramic Society, 1991, 74, 2564-2572.	1.9	62
198	Superplastic Alumina Ceramics with Grain Growth Inhibitors. Journal of the American Ceramic Society, 1991, 74, 842-845.	1.9	60

#	ARTICLE	IF	CITATIONS
199	Low-Temperature Sintering of Alumina with Liquid-Forming Additives. Journal of the American Ceramic Society, 1991, 74, 2011-2013.	1.9	81
200	Stress-Biased Anisotropic Microcracking in Zirconia Polycrystals. Journal of the American Ceramic Society, 1990, 73, 1026-1033.	1.9	20
201	Grain Size Control of Tetragonal Zirconia Polycrystals Using the Space Charge Concept. Journal of the American Ceramic Society, 1990, 73, 3269-3277.	1.9	248
202	Deformation and Grain Growth of Low-Temperature-Sintered High-Purity Alumina. Journal of the American Ceramic Society, 1990, 73, 3518-3521.	1.9	99
203	Superplastic Bulging of Fine-Grained Zirconia. Journal of the American Ceramic Society, 1990, 73, 746-749.	1.9	38
204	Computer Simulation of Final-Stage Sintering: I, Model Kinetics, and Microstructure. Journal of the American Ceramic Society, 1990, 73, 2857-2864.	1.9	123
205	Computer Simulation of Final-Stage Sintering: II, Influence of Initial Pore Size. Journal of the American Ceramic Society, 1990, 73, 2865-2872.	1.9	66
206	Development of Superplastic Structural Ceramics. Journal of the American Ceramic Society, 1990, 73, 2585-2609.	1.9	497
207	Superplastic Flow of Two-Phase Ceramics Containing Rigid Inclusions- Zirconia/Mullite Composites. Journal of the American Ceramic Society, 1990, 73, 1555-1565.	1.9	95
208	Aftereffects following \hat{I}^2 -decay of $^{181}\text{Hf}1$. Hyperfine Interactions, 1990, 60, 615-618.	0.2	7
209	Martensitic growth in $\text{ZrO}_2\text{-}^{\text{An}}$ in situ, small particle, TEM study of a single-interface transformation. Acta Metallurgica Et Materialia, 1990, 38, 1163-1174.	1.9	37
210	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
211	Domain Switching as a Toughening Mechanism in Tetragonal Zirconia. Journal of the American Ceramic Society, 1988, 71, C-362-C-364.	1.9	20
212	Manufacturing of High T_c Superconducting Ceramic Wires by Hot Extrusion. CIRP Annals - Manufacturing Technology, 1988, 37, 259-261.	1.7	3
213	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
214	A stochastic theory of grain growth. Acta Metallurgica, 1987, 35, 1723-1733.	2.1	42
215	Structural behavior and superconductivity of $\text{YBa}_2\text{Cu}_3\text{O}_x$. Solid State Communications, 1987, 63, 997-1001.	0.9	49
216	Texture Development in $\text{YBa}_2\text{Cu}_3\text{O}_x$ by Hot Extrusion and Hot-Pressing. Journal of the American Ceramic Society, 1987, 70, C-388-C-390.	1.9	13

#	ARTICLE	IF	CITATIONS
217	SUPERCONDUCTIVITY AND THE TAILORING OF LATTICE PARAMETERS OF THE COMPOUND $\text{YBa}_{2-x}\text{Cu}_3\text{O}_{x-1}$. <i>Advanced Ceramic Materials</i> , 1987, 2, 457-470.	2.3	32
218	Transformation Plasticity and Transformation Toughening in Mg-PSZ and Ce-TZP. <i>Materials Research Society Symposia Proceedings</i> , 1986, 78, 75.	0.1	21
219	Quasi-static intergranular brittle fracture at 0.5 tm: 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
220	Implications of Transformation Plasticity in ZrO ₂ -Containing Ceramics: I, Shear and Dilatation Effects. <i>Journal of the American Ceramic Society</i> , 1986, 69, 181-189.	1.9	192
221	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
222	Martensitic Nucleation in Small ZrO ₂ Particles. <i>Materials Research Society Symposia Proceedings</i> , 1985, 57, 149.	0.1	1
223	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
224	Statistics of martensitic nucleation. <i>Acta Metallurgica</i> , 1985, 33, 1847-1859.	2.1	91
225	Cavity growth on a sliding grain boundary. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1983, 14, 2289-2293.	1.4	29
226	Martensitic nucleation in ZrO ₂ . <i>Acta Metallurgica</i> , 1983, 31, 1627-1638.	2.1	99
227	Irradiation-induced segregation in multi-component alloys. <i>Journal of Nuclear Materials</i> , 1983, 116, 249-259.	1.3	6
228	Mechanisms of cavity growth in creep. <i>Scripta Metallurgica</i> , 1983, 17, 17-22.	1.2	38
229	Diffusive growth of grain-boundary cavities. <i>Acta Metallurgica</i> , 1981, 29, 1759-1768.	2.1	176
230	Creep cavitation in 304 stainless steel. <i>Acta Metallurgica</i> , 1981, 29, 1321-1333.	2.1	176
231	Grain boundary and interphase boundary sliding in power law creep. <i>Acta Metallurgica</i> , 1979, 27, 749-754.	2.1	54
232	Steady state power-law creep in heterogeneous alloys with coarse microstructures. <i>Acta Metallurgica</i> , 1979, 27, 785-791.	2.1	72