

I-Wei Chen

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344
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364
ext. papers

17,210
ext. citations

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L-index

#	Paper	IF	Citations
344	Nitrogen-doped mesoporous carbon of extraordinary capacitance for electrochemical energy storage. <i>Science</i> , 2015 , 350, 1508-13	33.3	1530
343	Sintering dense nanocrystalline ceramics without final-stage grain growth. <i>Nature</i> , 2000 , 404, 168-71	50.4	1126
342	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	3.8	464
341	Development of Superplastic Structural Ceramics. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2585-2609	3.8	447
340	Reactive Cerium(IV) Oxide Powders by the Homogeneous Precipitation Method. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 1577-1583	3.8	315
339	A tough SiAlON ceramic based on Si_3N_4 with a whisker-like microstructure. <i>Nature</i> , 1997 , 389, 701-704	50.4	303
338	Quantum-dot-tagged reduced graphene oxide nanocomposites for bright fluorescence bioimaging and photothermal therapy monitored in situ. <i>Advanced Materials</i> , 2012 , 24, 1748-54	24	301
337	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	3.8	293
336	Nucleation and growth mechanism of ferroelectric domain-wall motion. <i>Nature</i> , 2007 , 449, 881-4	50.4	280
335	Improved Thermoelectric Properties of Cu-Doped Quaternary Chalcogenides of $\text{Cu}_2\text{CdSnSe}_4$. <i>Advanced Materials</i> , 2009 , 21, 3808-3812	24	275
334	Two-Step Sintering of Ceramics with Constant Grain-Size, II: BaTiO_3 and NiCuZn Ferrite. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 438-443	3.8	275
333	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, 202103	3.4	268
332	Biomedical nanoparticle carriers with combined thermal and magnetic responses. <i>Nano Today</i> , 2009 , 4, 52-65	17.9	250
331	X-ray-absorption studies of zirconia polymorphs. I. Characteristic local structures. <i>Physical Review B</i> , 1993 , 48, 10063-10073	3.3	222
330	Iron oxide nanoparticles as magnetic resonance contrast agent for tumor imaging via folate receptor-targeted delivery. <i>Academic Radiology</i> , 2004 , 11, 996-1004	4.3	221
329	Temperature-Time Texture Transition of $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ Thin Films: I, Role of Pb-rich Intermediate Phases. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2332-2336	3.8	214
328	Grain Size Control of Tetragonal Zirconia Polycrystals Using the Space Charge Concept. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3269-3277	3.8	205

327	X-ray-absorption studies of zirconia polymorphs. II. Effect of Y ₂ O ₃ dopant on ZrO ₂ structure. <i>Physical Review B</i> , 1993 , 48, 10074-10081	3.3	185
326	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	3.8	184
325	Grain Growth in CeO ₂ : Dopant Effects, Defect Mechanism, and Solute Drag. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1793-1800	3.8	182
324	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	3.8	178
323	A Robust and Conductive Black Tin Oxide Nanostructure Makes Efficient Lithium-Ion Batteries Possible. <i>Advanced Materials</i> , 2017 , 29, 1700136	24	173
322	Transformation Plasticity of CeO ₂ -Stabilized Tetragonal Zirconia Polycrystals: I, Stress Assistance and Autocatalysis. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 343-353	3.8	170
321	A new tubular graphene form of a tetrahedrally connected cellular structure. <i>Advanced Materials</i> , 2015 , 27, 5943-9	24	163
320	Grain Boundary Mobility in Y ₂ O ₃ : Defect Mechanism and Dopant Effects. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1801-1809	3.8	159
319	Creep cavitation in 304 stainless steel. <i>Acta Metallurgica</i> , 1981 , 29, 1321-1333		159
318	The effect of silica nanoparticle-modified surfaces on cell morphology, cytoskeletal organization and function. <i>Biomaterials</i> , 2008 , 29, 3836-46	15.6	152
317	Diffusive growth of grain-boundary cavities. <i>Acta Metallurgica</i> , 1981 , 29, 1759-1768		152
316	Sintering of Fine Oxide Powders: II, Sintering Mechanisms. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 637-645	3.8	140
315	Texture Development, Microstructure Evolution, and Crystallization of Chemically Derived PZT Thin Films. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 97-105	3.8	139
314	Temperature—Time Texture Transition of Pb(Zr _{1-x} Ti _x)O ₃ Thin Films: II, Heat Treatment and Compositional Effects. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2337-2344	3.8	133
313	Effect of Dopants on Zirconia Stabilization—An X-ray Absorption Study: III, Charge-Compensating Dopants. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1289-1295	3.8	130
312	Transformation Plasticity of CeO ₂ -Stabilized Tetragonal Zirconia Polycrystals: II, Pseudoelasticity and Shape Memory Effect. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 648-657	3.8	128
311	Core-shell nanocapsules stabilized by single-component polymer and nanoparticles for magneto-chemotherapy/hyperthermia with multiple drugs. <i>Advanced Materials</i> , 2012 , 24, 3627-32	24	122
310	Sintering of Fine Oxide Powders: I, Microstructural Evolution. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3129-3141	3.8	119

309	Fatigue of Pb(Zr _{0.53} Ti _{0.47})O ₃ ferroelectric thin films. <i>Journal of Applied Physics</i> , 1998 , 83, 7789-7798	2.5	118
308	Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part I, Bi ₄ Ti ₃ O ₁₂ . <i>Journal of the American Ceramic Society</i> , 1998 , 81, 3253-3259	3.8	112
307	Temperature-Sensitive Nanocapsules for Controlled Drug Release Caused by Magnetically Triggered Structural Disruption. <i>Advanced Functional Materials</i> , 2009 , 19, 616-623	15.6	108
306	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	3.8	106
305	Computer Simulation of Final-Stage Sintering: I, Model Kinetics, and Microstructure. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2857-2864	3.8	102
304	Theory and experiment of martensitic nucleation in ZrO ₂ containing ceramics and ferrous alloys. <i>Acta Metallurgica</i> , 1985 , 33, 1827-1845		101
303	Exaggerated Texture and Grain Growth in a Superplastic SiAlON. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2733-2741	3.8	97
302	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	3.8	94
301	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	3.8	91
300	Martensitic nucleation in ZrO ₂ . <i>Acta Metallurgica</i> , 1983 , 31, 1627-1638		91
299	Superplastic Flow of Two-Phase Ceramics Containing Rigid InclusionsZirconia/Mullite Composites. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 1555-1565	3.8	89
298	Deformation and Grain Growth of Low-Temperature-Sintered High-Purity Alumina. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3518-3521	3.8	88
297	Cubic-to-Tetragonal (t') Transformation in Zirconia-Containing Systems. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 1108-1116	3.8	87
296	NIR-Triggered Synergic Photo-chemothermal Therapy Delivered by Reduced Graphene Oxide/Carbon/Mesoporous Silica Nanocookies. <i>Advanced Functional Materials</i> , 2014 , 24, 451-459	15.6	85
295	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	3.8	85
294	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, 159-64	11.5	85
293	In-Situ Alumina/Aluminate Platelet Composites. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2610-2612	3.8	85
292	RES blockade: A strategy for boosting efficiency of nanoparticle drug. <i>Nano Today</i> , 2015 , 10, 11-21	17.9	84

291	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	15.6	83
290	Structural origin of relaxor perovskites. <i>Journal of Physics and Chemistry of Solids</i> , 1996 , 57, 1525-1536	3.9	82
289	Solution Mechanisms for Dopant Oxides in Yttria. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1553-1559	3.5	80
288	Statistics of martensitic nucleation. <i>Acta Metallurgica</i> , 1985 , 33, 1847-1859		78
287	Shear Thickening Creep in Superplastic Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 1073-1079	3.8	77
286	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, 3847-52	24	73
285	Onset Criterion for Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3624-3627	3.8	72
284	Reaction Hot Pressing of α - and β -SiALON Ceramics. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 165-171	3.8	72
283	Steady state power-law creep in heterogeneous alloys with coarse microstructures. <i>Acta Metallurgica</i> , 1979 , 27, 785-791		70
282	Phase Relationships and Stability of α -SiALON. <i>Journal of the American Ceramic Society</i> , 1999 , 82, 1025-1033	3.8	66
281	Nanoscale Engineering of Biomaterial Surfaces. <i>Advanced Materials</i> , 2007 , 19, 553-557	24	64
280	Microstructure Control of In-Situ-Toughened β -SiALON Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1819-1821	3.8	64
279	Nucleation and Growth of α -SiALON on β -Si ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1711-1718	3.8	63
278	Low-Temperature Sintering of Alumina with Liquid-Forming Additives. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 2011-2013	3.8	62
277	X-ray Absorption Studies of Ceria with Trivalent Dopants. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 958-967	3.8	61
276	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, 2096-103	16.7	60
275	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	3.8	59
274	Predicting the Onset of Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2333-2335	3.8	59

273	A size-dependent nanoscale metal-insulator transition in random materials. <i>Nature Nanotechnology</i> , 2011 , 6, 237-41	28.7	59
272	Observing Oxygen Vacancy Driven Electroforming in Pt-TiO ₂ -Pt Device via Strong Metal Support Interaction. <i>Nano Letters</i> , 2016 , 16, 2139-44	11.5	57
271	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	6	56
270	Superplastic Alumina Ceramics with Grain Growth Inhibitors. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 842-845	3.8	54
269	Computer Simulation of Final-Stage Sintering: II, Influence of Initial Pore Size. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2865-2872	3.8	54
268	Nucleation and Growth of α -SiAlON. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1719-1728	3.8	53
267	Model of Transformation Toughening in Brittle Materials. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 2564-2572	3.8	53
266	Bulk dense fine-grain (1-x)BiScO ₃ -xPbTiO ₃ ceramics with high piezoelectric coefficient. <i>Applied Physics Letters</i> , 2008 , 93, 192913	3.4	52
265	X-ray-absorption studies of zirconia polymorphs. III. Static distortion and thermal distortion. <i>Physical Review B</i> , 1993 , 48, 10082-10089	3.3	52
264	Grain boundary and interphase boundary sliding in power law creep. <i>Acta Metallurgica</i> , 1979 , 27, 749-754		50
263	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	3.8	49
262	Toward large-scale water treatment using nanomaterials. <i>Nano Today</i> , 2019 , 27, 11-27	17.9	48
261	Reaction Densification of α -SiAlON: 1, Wetting Behavior and Acid-Base Reactions. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 545-552	3.8	47
260	Kinetics of phase transformations in SiAlON Ceramics: II. Reaction Paths. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 2337-2348	6	46
259	Model experiments on fatigue of Pb(Zr _{0.53} Ti _{0.47})O ₃ ferroelectric thin films. <i>Applied Physics Letters</i> , 1998 , 72, 1923-1925	3.4	45
258	Structural behavior and superconductivity of YBa ₂ Cu ₃ O _x . <i>Solid State Communications</i> , 1987 , 63, 997-1001	16	43
257	Superplastic Forming of SiAlON Ceramics. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2575-2585	3.8	42
256	Dynamic-load-enabled ultra-low power multiple-state RRAM devices. <i>Scientific Reports</i> , 2012 , 2, 744	4.9	41

255	Effect of Seeding on the Microstructure and Mechanical Properties of β -SiAlON: III, Comparison of Modifying Cations. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1168-1175	3.8	41
254	Mobility control of ceramic grain boundaries and interfaces. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 166, 51-58	5.3	41
253	Autonomously Controlled Homogenous Growth of Wafer-Sized High-Quality Graphene via a Smart Janus Substrate. <i>Advanced Functional Materials</i> , 2012 , 22, 1033-1039	15.6	39
252	A stochastic theory of grain growth. <i>Acta Metallurgica</i> , 1987 , 35, 1723-1733		39
251	A computational study of yttria-stabilized zirconia: II. Cation diffusion. <i>Acta Materialia</i> , 2017 , 126, 438-450	4.4	38
250	Grain Boundary Kinetics in Oxide Ceramics with the Cubic Fluorite Crystal Structure and its Derivatives. <i>Journal of Materials Science</i> , 2000 , 8, 147-156		38
249	Classical Superplasticity of SiAlON Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1341-1352	3.8	37
248	Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: II. Mapping electrode polarization and vacancy condensation in YSZ. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1058-1073	3.8	37
247	Superplastic Alumina at Temperatures below 1300°C Using Charge-Compensating Dopants. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 233-238	3.8	36
246	Superplastic Bulging of Fine-Grained Zirconia. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 746-749	3.8	36
245	Martensitic growth in ZrO ₂ in situ, small particle, TEM study of a single-interface transformation. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 1163-1174		36
244	In Situ 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	3.8	35
243	New progress in development of ferroelectric and piezoelectric nanoceramics. <i>Journal of Advanced Ceramics</i> , 2015 , 4, 1-21	10.7	33
242	Controllable synthesis of silver cyanamide as a new semiconductor photocatalyst under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7942	13	33
241	Synthesis of β -SiAlON Seed Crystals. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1651-1653	3.8	33
240	Reaction Densification of β -SiAlON: II, Densification Behavior. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 553-559	3.8	33
239	Fatigue Crack Growth of Silicon Nitride at 1400°C: A Novel Fatigue-Induced Crack-Tip Bridging Phenomenon. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 137-142	3.8	33
238	A Parallel Circuit Model for Multi-State Resistive-Switching Random Access Memory. <i>Advanced Functional Materials</i> , 2012 , 22, 546-554	15.6	32

237	The Mn+1 AXn Phases and their Properties 2010 , 299-347		31
236	Pressureless Sintering of Si3N4 Ceramic Using AlN and Rare-Earth Oxides. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1256-1262	3.8	31
235	Fatigue Deformation Mechanisms of Zirconia Ceramics. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 1191-1204	3.8	31
234	Mechanisms of cavity growth in creep. <i>Scripta Metallurgica</i> , 1983 , 17, 17-22		31
233	Effect of Seeding on the Microstructure and Mechanical Properties of β -SiALON: I, Y-SiALON. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1254-1259	3.8	30
232	Surface-modified silica colloid for diagnostic imaging. <i>Journal of Colloid and Interface Science</i> , 2003 , 258, 435-7	9.3	30
231	Implications of Transformation Plasticity in ZrO2-Containing Ceramics: II, Elastic-Plastic Indentation. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 189-194	3.8	30
230	SUPERCONDUCTIVITY AND THE TAILORING OF LATTICE PARAMETERS OF THE COMPOUND YBa2Cu3Ox*. <i>Advanced Ceramic Materials</i> , 1987 , 2, 457-470		30
229	Superior Reliability Via Two-Step Sintering: Barium Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 191-197	3.8	29
228	Effect of top electrode on resistance switching of (Pr, Ca)MnO3 thin films. <i>Thin Solid Films</i> , 2006 , 515, 2726-2729	2.2	29
227	Dynamic Kerr effect and the spectral weight transfer of the manganites. <i>Physical Review Letters</i> , 2004 , 93, 047402	7.4	29
226	Liquid-Phase Growth of Small Crystals for Seeding β -SiALON Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1040-1046	3.8	29
225	Cause and prevention of moisture-induced degradation of resistance random access memory nanodevices. <i>ACS Nano</i> , 2013 , 7, 2302-11	16.7	28
224	Frequency Spectra of Fatigue of PZT and other Ferroelectric Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 493, 311		28
223	Magnetic impurities in conducting oxides. I. (Sr1-xLax)(Ru1-yFey)O3 system. <i>Physical Review B</i> , 2004 , 70,	3.3	28
222	A domain wall model for relaxor ferroelectrics. <i>Ferroelectrics</i> , 1998 , 206, 245-263	0.6	28
221	Activation field and fatigue of (Pb, La)(Zr, Ti)O3 thin films. <i>Applied Physics Letters</i> , 1999 , 75, 4186-4188	3.4	28
220	Effect of Seeding on the Microstructure and Mechanical Properties of β -SiALON: II, Ca- β -SiALON. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1260-1267	3.8	27

219	R-Curve Behavior of In Situ Toughened SiALON Ceramics. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 884-886	3.8	27
218	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	3.8	26
217	Cholesterol-derivatized polyurethane: characterization and endothelial cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 72, 200-12	5.4	25
216	Rare-Earth Melilite Solid Solution and Its Phase Relations with Neighboring Phases. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 2091-2097	3.8	25
215	An electronic silicon-based memristor with a high switching uniformity. <i>Nature Electronics</i> , 2019 , 2, 66-74	8.4	25
214	Thermal Runaway in Mold-Assisted Flash Sintering. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2889-2894	3.8	24
213	Demonstration and modeling of multi-bit resistance random access memory. <i>Applied Physics Letters</i> , 2013 , 102, 043502	3.4	24
212	Lipoprotein nanoplatform for targeted delivery of diagnostic and therapeutic agents. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 645, 227-39	3.6	23
211	Formation of Silicon Nitride Crystals from (Si,Al,Mg,Y)(O,N) Liquid: I, Phase, Composition, and Shape Evolutions. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1578-1585	3.8	23
210	Cracking during Pyrolysis of Oxide Thin Films-Phenomenology, Mechanisms, and Mechanics. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2929-2939	3.8	23
209	Cavity growth on a sliding grain boundary. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1983 , 14, 2289-2293		23
208	Phase transformations of oriented Pb(Zr _{1-x} Ti _x)O ₃ thin films from metallo-organic precursors. <i>Ferroelectrics</i> , 1994 , 152, 25-30	0.6	22
207	Scalability of voltage-controlled filamentary and nanometallic resistance memory devices. <i>Nanoscale</i> , 2017 , 9, 12690-12697	7.7	21
206	Electro-Sintering of Yttria-Stabilized Cubic Zirconia. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1398-1406	3.8	21
205	Plasticity-Induced Fatigue Damage in Ceria-Stabilized Tetragonal Zirconia Polycrystals. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2025-2035	3.8	21
204	Orthorhombic NbO for Durable High-Rate Anode of Li-Ion Batteries. <i>IScience</i> , 2020 , 23, 100767	6.1	21
203	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	8.4	20
202	Lipoprotein Nanoplatform for Targeted Delivery of Diagnostic and Therapeutic Agents. <i>Molecular Imaging</i> , 2008 , 7, 7290.2008.0012	3.7	20

201	Optical evidence for transient photoinduced magnetization in La _{0.7} Ca _{0.3} MnO ₃ . <i>Physical Review B</i> , 2005 , 71,	3.3	20
200	Domain Switching as a Toughening Mechanism in Tetragonal Zirconia. <i>Journal of the American Ceramic Society</i> , 1988 , 71, C-362-C-364	3.8	20
199	Biodegradable resistive switching memory based on magnesium difluoride. <i>Nanoscale</i> , 2016 , 8, 15048-557	19	
198	Oxygen potential transition in mixed conducting oxide electrolyte. <i>Acta Materialia</i> , 2018 , 156, 399-410	8.4	19
197	Ionomigration of Neutral Phases in Ionic Conductors. <i>Advanced Energy Materials</i> , 2012 , 2, 1383-1389	21.8	19
196	Magnetic impurities in conducting oxides. II. (Sr _{1-x} La _x)(Ru _{1-x} Co _x)O ₃ system. <i>Physical Review B</i> , 2004 , 70,	3.3	19
195	Dopant-dependent oxidation behavior of SiALON ceramics. <i>Journal of Materials Science</i> , 2004 , 39, 4855-4860	19	
194	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		19
193	Mobility transition at grain boundaries in two-step sintered 8mol% yttria-stabilized zirconia. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1857-1869	3.8	19
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