

Wayne D Kaplan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147
papers

3,945
citations

31
h-index

56
g-index

157
ext. papers

4,296
ext. citations

5.1
avg, IF

5.44
L-index

#	Paper	IF	Citations
147	The influence of carbon on the microstructure and wear resistance of alumina. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4214-4225	3.8	2
146	The mechanism of grain growth at general grain boundaries in SrTiO ₃ . <i>Scripta Materialia</i> , 2020 , 188, 206-211	3.61	5
145	The influence of temperature on the solubility limit of Ca in alumina. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5767-5772	6	4
144	The Cr-Doped Ni-YSZ(111) interface: Segregation, oxidation and the Ni equilibrium crystal shape. <i>Acta Materialia</i> , 2019 , 166, 28-36	8.4	7
143	The combined influence of Mg and Ca on microstructural evolution of alumina. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4882-4887	3.8	8
142	Ca segregation at Au/YSZ interfaces. <i>Journal of Materials Science</i> , 2019 , 54, 7719-7727	4.3	
141	Characterization of grain boundary disconnections in SrTiO ₃ Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , 2019 , 54, 3710-3725	4.3	8
140	Characterization of grain boundary disconnections in SrTiO ₃ part I: the dislocation component of grain boundary disconnections. <i>Journal of Materials Science</i> , 2019 , 54, 3694-3709	4.3	10
139	The influence of CaO on alumina grain boundary mobility. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1324-1328	6	7
138	Discerning interface atomistic structure by phase contrast in STEM: The equilibrated Ni-YSZ interface. <i>Acta Materialia</i> , 2018 , 154, 71-78	8.4	9
137	Quantitative differences in the Y grain boundary excess at boundaries delimiting large and small grains in Y doped Al ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1829-1835	6	6
136	Ni-YSZ(001) solid-solid interfacial energy and orientation relationships. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2987	3.8	
135	Optical control of capacitance in a metal-insulator-semiconductor diode with embedded metal nanoparticles. <i>Journal of Applied Physics</i> , 2017 , 121, 214504	2.5	3
134	The mechanism of grain boundary motion in SrTiO ₃ . <i>Journal of Materials Science</i> , 2016 , 51, 467-475	4.3	27
133	Effect of Yttrium on the Fracture Strength of the Sn-1.0Ag-0.5Cu Solder Joints. <i>Journal of Electronic Materials</i> , 2016 , 45, 3259-3262	1.9	5
132	Structure of the Equilibrated Ni(111)-YSZ(111) Solid-Solid Interface. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1064-1070	3.8	7
131	Band Gap Extraction from Individual Two-Dimensional Perovskite Nanosheets Using Valence Electron Energy Loss Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11170-11179	3.8	29

130	Dynamical Properties of Optically Sensitive Metal-Insulator-Semiconductor Nonvolatile Memories Based on Pt Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2016 , 15, 492-498	2.6	11
129	The role of carbon and SiO ₂ in solid-state sintering of SiC. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2001-2005	6	8
128	Orientation relationships of copper crystals on sapphire (1 0 1 0) m-plane and (1 0 1 2) r-plane substrates. <i>Journal of Crystal Growth</i> , 2015 , 418, 57-63	1.6	6
127	Quantification of ordering at a solid-liquid interface using plasmon electron energy loss spectroscopy. <i>Applied Physics Letters</i> , 2015 , 106, 051603	3.4	4
126	MATERIALS SCIENCE. The mechanism of crystal deformation. <i>Science</i> , 2015 , 349, 1059-60	33.3	15
125	Insights into the structural, electronic, and magnetic properties of Fe ₂ Ti _x O ₃ /Fe ₂ O ₃ thin films with x = 0.44 grown on Al ₂ O ₃ (0001). <i>Journal of Materials Science</i> , 2015 , 50, 122-137	4.3	5
124	Optically sensitive devices based on Pt nano particles fabricated by atomic layer deposition and embedded in a dielectric stack. <i>Journal of Applied Physics</i> , 2015 , 118, 134504	2.5	9
123	Highly sensitive optically controlled tunable capacitor and photodetector based on a metal-insulator-semiconductor on silicon-on-insulator substrates. <i>Journal of Applied Physics</i> , 2015 , 117, 044503	2.5	9
122	Anisotropic Grain Boundary Mobility in Undoped and Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1610-1618	3.8	19
121	Interfacial energies and mass transport in the Ni(Al)Al ₂ O ₃ system: The implication of very low oxygen activities. <i>Acta Materialia</i> , 2014 , 64, 282-296	8.4	8
120	The role of abnormal grain growth on solid-state dewetting kinetics. <i>Acta Materialia</i> , 2014 , 81, 304-314	8.4	27
119	The solubility limit of SiO ₂ in γ -alumina at 1600 °C. <i>Scripta Materialia</i> , 2014 , 86, 40-43	5.6	13
118	A highly sensitive broadband planar metal-oxide-semiconductor photo detector fabricated on a silicon-on-insulator substrate. <i>Journal of Applied Physics</i> , 2014 , 116, 074513	2.5	13
117	Static and dynamic mechanical properties of alumina reinforced with sub-micron Ni particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 1-9	5.3	7
116	Solid-state dewetting of Pt on (100) SrTiO ₃ . <i>Journal of Materials Science</i> , 2014 , 49, 3863-3874	4.3	14
115	Ni γ /SZ(111) solid-solid interfacial energy. <i>Journal of Materials Science</i> , 2014 , 49, 3943-3950	4.3	11
114	The equilibrium orientation relationship between Pt and SrTiO ₃ and its implication on Pt films deposited by physical vapor phase deposition. <i>Journal of Materials Science</i> , 2014 , 49, 3917-3927	4.3	5
113	Direct quantification of ordering at a solid-liquid interface using aberration corrected transmission electron microscopy. <i>Physical Review Letters</i> , 2013 , 110, 086106	7.4	30

112	A review of wetting versus adsorption, complexions, and related phenomena: the rosetta stone of wetting. <i>Journal of Materials Science</i> , 2013 , 48, 5681-5717	4.3	199
111	Electronic structure, morphology and emission polarization of enhanced symmetry InAs quantum-dot-like structures grown on InP substrates by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2013 , 114, 094306	2.5	25
110	Microstructure of ZnO films synthesized on MgAl ₂ O ₄ from low-temperature aqueous solution: growth and post-annealing. <i>Journal of Materials Science</i> , 2013 , 48, 1614-1622	4.3	10
109	Copper crystals on the (11 $\bar{2}$)0 sapphire plane: orientation relationships, triple line ridges and interface shape equilibrium. <i>Journal of Materials Science</i> , 2013 , 48, 3013-3026	4.3	17
108	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8806-8812	3.8	42
107	Electronic structure of KCa ₂ Nb ₃ O ₁₀ as envisaged by density functional theory and valence electron energy loss spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	15
106	Particle occlusion and mechanical properties of NiAl ₂ O ₃ nanocomposites. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 3101-3113	6	12
105	The Solubility Limit of CaO in γ -Alumina at 1600°C. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3258-3264	3.8	21
104	Ultraviolet to near infrared response of optically sensitive nonvolatile memories based on platinum nano-particles and high-k dielectrics on a silicon on insulator substrate. <i>Journal of Applied Physics</i> , 2013 , 113, 074503	2.5	7
103	Equilibrium segregation of Ti to Au/Sapphire interfaces. <i>Journal of Materials Science</i> , 2012 , 47, 1647-1654	4.3	7
102	Preface to the Special Section E-MRS MACAN. <i>Journal of Materials Science</i> , 2012 , 47, 1603-1604	4.3	
101	In Situ Characterization of Spinel Nanoceramic Suspensions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3103-3108	3.8	15
100	Hf-Doped NiAl ₂ O ₃ Interfaces at Equilibrium. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3997-4003	3.8	5
99	Preface to the HTC 2012 special issue. <i>Journal of Materials Science</i> , 2012 , 47, 8245-8246	4.3	1
98	Solid-Solid interface reconstruction at equilibrated NiAl ₂ O ₃ interfaces. <i>Acta Materialia</i> , 2012 , 60, 4359-4369	4.3	45
97	The effect of Fe-coverage on the structure, morphology and magnetic properties of γ -FeSi ₂ nanoislands. <i>Nanotechnology</i> , 2012 , 23, 495603	3.4	23
96	Introduction to Scanning Electron Microscopy 2012 , 1-37		0
95	Non-volatile memory transistor based on Pt nanocrystals with negative differential resistance. <i>Journal of Applied Physics</i> , 2012 , 112, 024319	2.5	11

94	Nonvolatile low-voltage memory transistor based on SiO ₂ tunneling and HfO ₂ blocking layers with charge storage in Au nanocrystals. <i>Applied Physics Letters</i> , 2011 , 98, 212902	3.4	26
93	Coverage-dependent self-organized ordering of Co- and Ti-silicide nanoislands along step-bunch edges of vicinal Si(111). <i>Physical Review B</i> , 2011 , 83,	3.3	11
92	Optical properties of nonvolatile memory capacitors based on gold nanoparticles and SiO ₂ /HfO ₂ sublayers. <i>Applied Physics Letters</i> , 2011 , 98, 022905	3.4	6
91	Nanometer-thick equilibrium films: the interface between thermodynamics and atomistics. <i>Science</i> , 2011 , 332, 206-9	3.3	119
90	Orientation relationships of copper crystals on c-plane sapphire. <i>Acta Materialia</i> , 2011 , 59, 5320-5331	8.4	41
89	Order in nanometer thick intergranular films at Au/sapphire interfaces. <i>Acta Materialia</i> , 2011 , 59, 5710-5715	8.4	18
88	Palladium nanoparticles on silica-rich substrates by spontaneous reduction at room temperature. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5239-5249	2.3	9
87	The equilibrium crystal shape of nickel. <i>Acta Materialia</i> , 2011 , 59, 3473-3483	8.4	52
86	Quantitative analysis of layering and in-plane structural ordering at an alumina/aluminum solid/liquid interface. <i>Acta Materialia</i> , 2011 , 59, 4378-4386	8.4	43
85	The effect of light irradiation on electrons and holes trapping in nonvolatile memory capacitors employing sub 10 nm SiO ₂ /HfO ₂ stacks and Au nanocrystals. <i>Microelectronic Engineering</i> , 2011 , 88, 964-968	2.5	8
84	Oscillatory mass transport in vapor-liquid-solid growth of sapphire nanowires. <i>Science</i> , 2010 , 330, 489-933	3.3	148
83	A Nonvolatile Memory Capacitor Based on a Double Gold Nanocrystal Storing Layer and High-k Dielectric Tunneling and Control Layers. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H463	3.9	12
82	Shape-controlled nanopores in single crystals. <i>Nanotechnology</i> , 2010 , 21, 475301	3.4	7
81	Reconstructing solid state nanopore shape from electrical measurements. <i>Applied Physics Letters</i> , 2010 , 97, 223105	3.4	22
80	Four questions about triple lines. <i>Scripta Materialia</i> , 2010 , 62, 894-898	5.6	6
79	The correlation of the electrical properties with electron irradiation and constant voltage stress for MIS devices based on high-k double layer (HfTiSiO:N and HfTiO:N) dielectrics. <i>Microelectronic Engineering</i> , 2010 , 87, 1728-1734	2.5	9
78	Microstructure and chemical analysis of Hf-based high-k dielectric layers in metal/insulator/metal capacitors. <i>Thin Solid Films</i> , 2010 , 518, 4467-4472	2.2	1
77	A nonvolatile memory capacitor based on Au nanocrystals with HfO ₂ tunneling and blocking layers. <i>Applied Physics Letters</i> , 2009 , 95, 023104	3.4	26

76	The influence of electron-beam irradiation on electrical characteristics of metal-insulator-semiconductor capacitors based on a high-k dielectric stack of HfTiSiO(N) and HfTiO(N) layers. <i>Microelectronics Reliability</i> , 2009 , 49, 716-720	1.2	15
75	An experimental method for calibration of the plasmon mean free path. <i>Journal of Microscopy</i> , 2009 , 236, 165-73	1.9	29
74	The mechanism of initial de-wetting and detachment of thin Au films on YSZ. <i>Acta Materialia</i> , 2009 , 57, 248-256	8.4	65
73	Quantitative HRTEM analysis of FIB prepared specimens. <i>Journal of Microscopy</i> , 2008 , 232, 395-405	1.9	52
72	TEM specimen preparation of semiconductor/PMMA/metal interfaces. <i>Materials Characterization</i> , 2008 , 59, 1623-1629	3.9	27
71	High capacitance density metal-insulator-metal structures based on a high- ϵ HfN _x O _y /BiO ₂ /HfTiO _y laminate stack. <i>Applied Physics Letters</i> , 2008 , 92, 132902	3.4	13
70	The use of nanolaminates to obtain structurally stable high-K films with superior electrical properties: HfNO ₂ /HfTiO. <i>Journal of Applied Physics</i> , 2008 , 103, 114106	2.5	17
69	Detailed investigation of ultrasonic Al/Cu wire-bonds: I. Intermetallic formation in the as-bonded state. <i>Journal of Materials Science</i> , 2008 , 43, 6029-6037	4.3	40
68	Detailed investigation of ultrasonic Al/Cu wire-bonds: II. Microstructural evolution during annealing. <i>Journal of Materials Science</i> , 2008 , 43, 6038-6048	4.3	44
67	Water-Based Method for Processing Aluminum Oxynitride (AlON). <i>International Journal of Applied Ceramic Technology</i> , 2008 , 5, 641-648	2	18
66	Solubility Limits of La and Y in Aluminum Oxynitride at 1870°C. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1693-1696	3.8	16
65	Structure and chemistry of nanometer-thick intergranular films at metal-ceramic interfaces 2008 , 521-522		
64	2008 ,		63
63	TEM microstructural analysis of As-Bonded Al/Au wire-bonds. <i>Journal of Materials Science</i> , 2007 , 42, 2334-2346	4.3	30
62	Microstructural evolution of gold/aluminum wire-bonds. <i>Journal of Materials Science</i> , 2007 , 42, 2347-2357	4.3	25
61	Processing and microstructural control of metal-reinforced ceramic matrix nanocomposites 2006 , 285-308		3
60	STRUCTURAL ORDER IN LIQUIDS INDUCED BY INTERFACES WITH CRYSTALS. <i>Annual Review of Materials Research</i> , 2006 , 36, 1-48	12.8	127
59	Solubility Limit of MgO in Al ₂ O ₃ at 1600°C. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 350-353	3.8	36

58	Characterization of $\text{Ti-Al}_2\text{O}_3(\text{AlSi})_3\text{Ti}$ composites. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 2719-2726	6	12
57	Morphology and orientation of the equilibrated Au/Sapphire (left (10bar 10) right) interface. <i>Journal of Materials Science</i> , 2006 , 41, 5371-5375	4.3	26
56	Au/Sapphire (0001) solid-solid interfacial energy. <i>Journal of Materials Science</i> , 2006 , 41, 5099-5107	4.3	100
55	Advanced Materials and Characterization: Proceedings of the Brandon Symposium. <i>Journal of Materials Science</i> , 2006 , 41, 7667-7668	4.3	1
54	Intergranular films at Au-sapphire interfaces. <i>Journal of Materials Science</i> , 2006 , 41, 7775-7784	4.3	50
53	The influence of interfacial wetting and adhesion on the formation of voids at metal-ceramic interfaces. <i>Journal of Materials Science</i> , 2006 , 41, 817-821	4.3	17
52	Intergranular films at metal-ceramic interfaces Part II Calculation of Hamaker coefficients. <i>Acta Materialia</i> , 2005 , 53, 1571-1581	8.4	26
51	Intergranular films at metal-ceramic interfaces Part I Interface structure and chemistry. <i>Acta Materialia</i> , 2005 , 53, 1559-1569	8.4	58
50	Ordered liquid aluminum at the interface with sapphire. <i>Science</i> , 2005 , 310, 661-3	33.3	266
49	Quantitative Comparison of Transmission Electron Microscopy Techniques for the Study of Localized Ordering on a Nanoscale. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 597-605	3.8	23
48	The accuracy of quantitative image matching for HRTEM applications. <i>Materials Characterization</i> , 2005 , 54, 194-205	3.9	14
47	Reactive wetting of rutile by liquid aluminium. <i>Journal of Materials Science</i> , 2005 , 40, 1093-1100	4.3	18
46	Intergranular films in metal-ceramic composites and the promotion of metal particle occlusion. <i>International Journal of Materials Research</i> , 2004 , 95, 266-270		15
45	Dielectric property-microstructure relationship for nanoporous silica based thin films. <i>Journal of Applied Physics</i> , 2004 , 95, 5762-5767	2.5	29
44	Evolution of Surface Topography of as-Grown Si Films near Amorphous-to-Polycrystalline Transition. <i>Journal of the Electrochemical Society</i> , 2004 , 151, G904	3.9	3
43	Microstructure of Alumina Composites Containing Niobium and Niobium Aluminides. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 397-402	3.8	9
42	Residual stresses and magnetic properties of alumina-Nickel nanocomposites. <i>Scripta Materialia</i> , 2004 , 50, 1209-1213	5.6	17
41	Static and dynamic mechanical damage mechanisms in TiC-1080 steel cermets. <i>Scripta Materialia</i> , 2004 , 51, 37-41	5.6	22

40	Free Surface and Interface Thermodynamics of Liquid Nickel in Contact with Alumina. <i>Journal of Materials Science</i> , 2004 , 12, 73-83		21
39	Microstructural dependence of giant-magnetoresistance in electrodeposited Cu-Co alloys. <i>Journal of Materials Science</i> , 2004 , 39, 5701-5709	4.3	8
38	Equilibrium Amorphous Films at Metal-Ceramic Interfaces. <i>Microscopy and Microanalysis</i> , 2004 , 10, 274-285		
37	Aluminium-alumina interface morphology and thermodynamics from dewetting experiments. <i>Acta Materialia</i> , 2003 , 51, 2793-2802	8.4	88
36	Electrodeposition of Granular Cu-Co Alloys. <i>Journal of the Electrochemical Society</i> , 2003 , 150, C28	3.9	24
35	Amorphous Films at Metal/Ceramic Interfaces. <i>International Journal of Materials Research</i> , 2003 , 94, 272-276		21
34	Study of Porous Silica Based Films as Low-k Dielectric Material and their Interface with Copper Metallization. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 716, 7201		4
33	Oxygen induced interfacial phenomena during wetting of alumina by liquid aluminium. <i>Acta Materialia</i> , 2002 , 50, 75-88	8.4	85
32	Liquid assisted sintering of SiC powders by MW (2.45 GHz) heating. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 1891-1896	6	13
31	Iron as an Oxygen Tracer at the Aluminum-Alumina Interface. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 1601-1606	3.8	12
30	Interfacial phenomena and microstructure evolution during solidification of binary and ternary AlMgBi alloys cast with titanium carbonitride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 326, 288-296	5.3	19
29	Structure of Electrodeposited Cobalt. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, C75		50
28	Atomistic study of structural correlations at a liquid-solid interface. <i>Computational Materials Science</i> , 2002 , 24, 443-452	3.2	65
27	Processing and properties of Al ₂ O ₃ nanocomposites reinforced with sub-micron Ni and NiAl ₂ O ₄ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 302, 83-91	5.3	71
26	Ordering at Solid-Liquid Interfaces Between Dissimilar Materials. <i>Journal of Materials Science</i> , 2001 , 9, 175-181		46
25	Segregation of Aluminium at Nickel-Sapphire Interfaces. <i>Journal of Materials Science</i> , 2001 , 9, 213-220		24
24	Equilibrium Amorphous Silicon-Calcium-Oxygen Films at Interfaces in Copper-Alumina Composites Prepared by Melt Infiltration. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 623-630	3.8	26
23	Non-Equilibrium Wetting at Aluminium-Sapphire Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 654, 461		

22	Laser induced Cu/alumina bonding: Microstructure and bond mechanism. <i>Surface and Coatings Technology</i> , 2000 , 125, 40-44	4.4	6
21	Laser cladding of turbine blades. <i>Surface and Coatings Technology</i> , 2000 , 125, 45-48	4.4	144
20	Morphology of laser treated polycrystalline β -Al ₂ O ₃ . <i>Journal of Laser Applications</i> , 1999 , 11, 38-41	2.1	2
19	Factors which determine the orientation of CVD Al films grown on TiN. <i>Solid-State Electronics</i> , 1999 , 43, 1011-1014	1.7	1
18	Wetting of porous titanium carbonitride by AlMgSi alloys. <i>Acta Materialia</i> , 1999 , 47, 3927-3934	8.4	32
17	Microstructure and Phase Evolution of Niobium-Aluminide/Alumina Composites Prepared by Melt-Infiltration. <i>Physica Status Solidi A</i> , 1998 , 166, 241-255		17
16	Nucleation and growth of CVD Al on different types of TiN. <i>Thin Solid Films</i> , 1998 , 320, 67-72	2.2	21
15	Structure refinement of titanium carbonitride (TiCN). <i>Materials Letters</i> , 1998 , 35, 344-350	3.3	89
14	Calculation of process parameters for laser alloying and cladding. <i>Journal of Laser Applications</i> , 1998 , 10, 29-33	2.1	28
13	Microstructure of Nb BASED Al ₂ O ₃ Composites. <i>Microscopy and Microanalysis</i> , 1998 , 4, 588-589	0.5	
12	Alumina /Aluminium Interfaces 1998 , 153-160		6
11	The influence of Ca on interface structure and chemistry in melt-infiltrated β -Al ₂ O ₃ /Al composites. <i>Acta Materialia</i> , 1998 , 46, 2369-2379	8.4	16
10	Unusual strain relaxation in SiGe/Si heterostructures. <i>Applied Physics Letters</i> , 1997 , 70, 1287-1289	3.4	4
9	Structural disorder in SiGe films grown epitaxially on Si by ion beam sputter deposition. <i>Thin Solid Films</i> , 1997 , 294, 64-68	2.2	8
8	Ordered LaGa ₄ and its relation to other structures in the Ga-La binary system. <i>Journal of Alloys and Compounds</i> , 1996 , 232, 126-132	5.7	3
7	Ca Segregation to Basal Surfaces in β -Alumina. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2841-2844	3.4	49
6	Effect of SiC Submicrometer Particle Size and Content on Fracture Toughness of Alumina/SiC Nanocomposites. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 254-256	3.8	106
5	Fault-induced polytypism in (Cr, Fe) ₂ B. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 72, 963-979		28

4	Polymorphic basal twin boundaries and anisotropic growth in β -Al ₂ O ₃ . <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 835-848	16
3	Residual stresses in alumina-SiC nanocomposites. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 1147-1154	58
2	A new phase transition phenomenon in gallium-lanthanide binary alloys. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 571-574	6
1	Calcium pyrophosphate crystal deposition disease: Preparation and characterization of crystals. <i>Journal of Crystal Growth</i> , 1988 , 87, 453-462	1.6 30