

# Wayne D Kaplan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2013332/publications.pdf>

Version: 2024-02-01

151  
papers

4,613  
citations

117571

34  
h-index

128225

60  
g-index

157  
all docs

157  
docs citations

157  
times ranked

3995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered Liquid Aluminum at the Interface with Sapphire. <i>Science</i> , 2005, 310, 661-663.	6.0	307
2	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.	1.7	238
3	Laser cladding of turbine blades. <i>Surface and Coatings Technology</i> , 2000, 125, 45-48.	2.2	176
4	Oscillatory Mass Transport in Vapor-Liquid-Solid Growth of Sapphire Nanowires. <i>Science</i> , 2010, 330, 489-493.	6.0	166
5	STRUCTURAL ORDER IN LIQUIDS INDUCED BY INTERFACES WITH CRYSTALS. <i>Annual Review of Materials Research</i> , 2006, 36, 1-48.	4.3	146
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.	1.9	126
7	Nanometer-Thick Equilibrium Films: The Interface Between Thermodynamics and Atomistics. <i>Science</i> , 2011, 332, 206-209.	6.0	126
8	Au-Sapphire (0001) solid-solid interfacial energy. <i>Journal of Materials Science</i> , 2006, 41, 5099-5107.	1.7	111
9	Structure refinement of titanium carbonitride (TiCN). <i>Materials Letters</i> , 1998, 35, 344-350.	1.3	105
10	Oxygen induced interfacial phenomena during wetting of alumina by liquid aluminium. <i>Acta Materialia</i> , 2002, 50, 75-88.	3.8	102
11	Aluminium-alumina interface morphology and thermodynamics from dewetting experiments. <i>Acta Materialia</i> , 2003, 51, 2793-2802.	3.8	90
12	Processing and properties of Al <sub>2</sub> O <sub>3</sub> nanocomposites reinforced with sub-micron Ni and NiAl <sub>2</sub> O <sub>4</sub> . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 302, 83-91.	2.6	86
13	Atomistic study of structural correlations at a liquid-solid interface. <i>Computational Materials Science</i> , 2002, 24, 443-452.	1.4	79
14	The mechanism of initial de-wetting and detachment of thin Au films on YSZ. <i>Acta Materialia</i> , 2009, 57, 248-256.	3.8	72
15	Residual stresses in alumina-SiC nanocomposites. <i>Acta Metallurgica Et Materialia</i> , 1994, 42, 1147-1154.	1.9	65
16	Ca Segregation to Basal Surfaces in $\gamma$ -Alumina. <i>Journal of the American Ceramic Society</i> , 1995, 78, 2841-2844.	1.9	61
17	Intergranular films at metal-ceramic interfaces Part I - interface structure and chemistry. <i>Acta Materialia</i> , 2005, 53, 1559-1569.	3.8	60
18	The equilibrium crystal shape of nickel. <i>Acta Materialia</i> , 2011, 59, 3473-3483.	3.8	59

#	ARTICLE	IF	CITATIONS
19	Structure of Electrodeposited Cobalt. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, C75.	2.2	58
20	Quantitative analysis of layering and in-plane structural ordering at an alumina–aluminum solid–liquid interface. <i>Acta Materialia</i> , 2011, 59, 4378-4386.	3.8	58
21	Solid–solid interface reconstruction at equilibrated Ni–Al <sub>2</sub> O <sub>3</sub> interfaces. <i>Acta Materialia</i> , 2012, 60, 4359-4369.	3.8	58
22	Quantitative HRTEM analysis of FIB prepared specimens. <i>Journal of Microscopy</i> , 2008, 232, 395-405.	0.8	57
23	Ordering at Solid-Liquid Interfaces Between Dissimilar Materials. <i>Journal of Materials Science</i> , 2001, 9, 175-181.	1.2	55
24	Intergranular films at Au-sapphire interfaces. <i>Journal of Materials Science</i> , 2006, 41, 7775-7784.	1.7	54
25	Detailed investigation of ultrasonic Al–Cu wire-bonds: II. Microstructural evolution during annealing. <i>Journal of Materials Science</i> , 2008, 43, 6038-6048.	1.7	52
26	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.	1.7	47
27	Orientation relationships of copper crystals on c-plane sapphire. <i>Acta Materialia</i> , 2011, 59, 5320-5331.	3.8	47
28	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8806-8812.	1.5	47
29	Wetting of porous titanium carbonitride by Al–Mg–Si alloys. <i>Acta Materialia</i> , 1999, 47, 3927-3934.	3.8	38
30	Solubility Limit of MgO in Al <sub>2</sub> O <sub>3</sub> at 1600°C. <i>Journal of the American Ceramic Society</i> , 2006, 89, 350-353.	1.9	38
31	Direct Quantification of Ordering at a Solid-Liquid Interface Using Aberration Corrected Transmission Electron Microscopy. <i>Physical Review Letters</i> , 2013, 110, 086106.	2.9	38
32	Fault-induced polytypism in (Cr, Fe) <sub>2</sub> B. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995, 72, 963-979.	0.7	37
33	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.	1.5	36
34	TEM microstructural analysis of As-Bonded Al–Au wire-bonds. <i>Journal of Materials Science</i> , 2007, 42, 2334-2346.	1.7	35
35	Calculation of process parameters for laser alloying and cladding. <i>Journal of Laser Applications</i> , 1998, 10, 29-33.	0.8	34
36	An experimental method for calibration of the plasmon mean free path. <i>Journal of Microscopy</i> , 2009, 236, 165-173.	0.8	34

#	ARTICLE	IF	CITATIONS
37	The mechanism of grain boundary motion in SrTiO <sub>3</sub> . Journal of Materials Science, 2016, 51, 467-475.	1.7	33
38	The effect of Fe-coverage on the structure, morphology and magnetic properties of Fe-Si <sub>2</sub> nanoislands. Nanotechnology, 2012, 23, 495603.	1.3	31
39	Calcium pyrophosphate crystal deposition disease: Preparation and characterization of crystals. Journal of Crystal Growth, 1988, 87, 453-462.	0.7	30
40	Dielectric property-microstructure relationship for nanoporous silica based thin films. Journal of Applied Physics, 2004, 95, 5762-5767.	1.1	30
41	A nonvolatile memory capacitor based on Au nanocrystals with HfO <sub>2</sub> tunneling and blocking layers. Applied Physics Letters, 2009, 95, 023104.	1.5	30
42	The role of abnormal grain growth on solid-state dewetting kinetics. Acta Materialia, 2014, 81, 304-314.	3.8	30
43	Morphology and orientation of the equilibrated Au-sapphire (100) interface. Journal of Materials Science, 2006, 41, 5371-5375.	1.7	29
44	Microstructural evolution of gold-aluminum wire-bonds. Journal of Materials Science, 2007, 42, 2347-2357.	1.7	29
45	Equilibrium Amorphous Silicon-Calcium-Oxygen Films at Interfaces in Copper-Alumina Composites Prepared by Melt Infiltration. Journal of the American Ceramic Society, 2001, 84, 623-630.	1.9	28
46	Static and dynamic mechanical damage mechanisms in TiC-1080 steel cermets. Scripta Materialia, 2004, 51, 37-41.	2.6	28
47	Intergranular films at metal-ceramic interfaces Part II - calculation of Hamaker coefficients. Acta Materialia, 2005, 53, 1571-1581.	3.8	28
48	TEM specimen preparation of semiconductor-PMMA-metal interfaces. Materials Characterization, 2008, 59, 1623-1629.	1.9	28
49	Nonvolatile low-voltage memory transistor based on SiO <sub>2</sub> tunneling and HfO <sub>2</sub> blocking layers with charge storage in Au nanocrystals. Applied Physics Letters, 2011, 98, .	1.5	28
50	Electronic structure, morphology and emission polarization of enhanced symmetry InAs quantum-dot-like structures grown on InP substrates by molecular beam epitaxy. Journal of Applied Physics, 2013, 114, .	1.1	28
51	Electrodeposition of Granular Cu-Co Alloys. Journal of the Electrochemical Society, 2003, 150, C28.	1.3	27
52	Quantitative Comparison of Transmission Electron Microscopy Techniques for the Study of Localized Ordering on a Nanoscale. Journal of the American Ceramic Society, 1998, 81, 597-605.	1.9	27
53	Reconstructing solid state nanopore shape from electrical measurements. Applied Physics Letters, 2010, 97, .	1.5	27
54	Segregation of Aluminium at Nickel-Sapphire Interfaces. Journal of Materials Science, 2001, 9, 213-220.	1.2	26

#	ARTICLE	IF	CITATIONS
55	Nucleation and growth of CVD Al on different types of TiN. Thin Solid Films, 1998, 320, 67-72.	0.8	25
56	The Solubility Limit of $\text{CaO}$ in $\text{Al}_2\text{O}_3$ Alumina at $1600^\circ\text{C}$ . Journal of the American Ceramic Society, 2013, 96, 3258-3264.	1.9	25
57	Anisotropic Grain Boundary Mobility in Undoped and Doped Alumina. Journal of the American Ceramic Society, 2014, 97, 1610-1618.	1.9	25
58	Interfacial phenomena and microstructure evolution during solidification of binary and ternary $\text{Al-Mg-Si}$ alloys cast with titanium carbonitride. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 326, 288-296.	2.6	22
59	Free Surface and Interface Thermodynamics of Liquid Nickel in Contact with Alumina. Journal of Materials Science, 2004, 12, 73-83.	1.2	22
60	Amorphous Films at Metal/Ceramic Interfaces. International Journal of Materials Research, 2003, 94, 272-276.	0.8	22
61	Water-Based Method for Processing Aluminum Oxynitride (ALON). International Journal of Applied Ceramic Technology, 2008, 5, 641-648.	1.1	21
62	Solubility Limits of La and Y in Aluminum Oxynitride at $1870^\circ\text{C}$ . Journal of the American Ceramic Society, 2008, 91, 1693-1696.	1.9	21
63	Reactive wetting of rutile by liquid aluminium. Journal of Materials Science, 2005, 40, 1093-1100.	1.7	20
64	The influence of interfacial wetting and adhesion on the formation of voids at metal-ceramic interfaces. Journal of Materials Science, 2006, 41, 817-821.	1.7	20
65	Polymorphic basal twin boundaries and anisotropic growth in $\text{Al}_2\text{O}_3$ . Acta Metallurgica Et Materialia, 1995, 43, 835-848.	1.9	19
66	Microstructure and Phase Evolution of Niobium-Aluminide-Alumina Composites Prepared by Melt-Infiltration. Physica Status Solidi A, 1998, 166, 241-255.	1.7	19
67	Residual stresses and magnetic properties of alumina-nickel nanocomposites. Scripta Materialia, 2004, 50, 1209-1213.	2.6	19
68	The use of nanolaminates to obtain structurally stable high-K films with superior electrical properties: $\text{HfNO}_2/\text{HfTiO}$ . Journal of Applied Physics, 2008, 103, 114106.	1.1	19
69	Order in nanometer thick intergranular films at Au-sapphire interfaces. Acta Materialia, 2011, 59, 5710-5715.	3.8	19
70	The mechanism of crystal deformation. Science, 2015, 349, 1059-1060.	6.0	19
71	Copper crystals on the $(11\bar{2}0)$ sapphire plane: orientation relationships, triple line ridges and interface shape equilibrium. Journal of Materials Science, 2013, 48, 3013-3026.	1.7	18
72	Electronic structure of $\text{KCa}_2\text{Nb}_3\text{O}_{15}$ . $\frac{1}{2} \left( \frac{1}{2} \sqrt{3} \right) \left( \frac{1}{2} \sqrt{3} \right) \left( \frac{1}{2} \sqrt{3} \right)$	1.1	18

#	ARTICLE	IF	CITATIONS
73	Ni-YSZ(111) solid-solid interfacial energy. Journal of Materials Science, 2014, 49, 3943-3950.	1.7	18
74	Characterization of grain boundary disconnections in SrTiO <sub>3</sub> part I: the dislocation component of grain boundary disconnections. Journal of Materials Science, 2019, 54, 3694-3709.	1.7	18
75	The influence of Ca on interface structure and chemistry in melt-infiltrated $\text{Al}_2\text{O}_3/\text{Al}$ composites. Acta Materialia, 1998, 46, 2369-2379.	3.8	18
76	Intergranular films in metal-ceramic composites and the promotion of metal particle occlusion. International Journal of Materials Research, 2004, 95, 266-270.	0.8	17
77	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. Microelectronics Reliability, 2009, 49, 716-720.	0.9	17
78	In Situ Characterization of Spinel Nanoceramic Suspensions. Journal of the American Ceramic Society, 2012, 95, 3103-3108.	1.9	17
79	Liquid assisted sintering of SiC powders by MW (2.45 GHz) heating. Journal of the European Ceramic Society, 2002, 22, 1891-1896.	2.8	16
80	The accuracy of quantitative image matching for HRTEM applications. Materials Characterization, 2005, 54, 194-205.	1.9	15
81	A highly sensitive broadband planar metal-oxide-semiconductor photo detector fabricated on a silicon-on-insulator substrate. Journal of Applied Physics, 2014, 116, 074513.	1.1	15
82	Discerning interface atomistic structure by phase contrast in STEM: The equilibrated Ni-YSZ interface. Acta Materialia, 2018, 154, 71-78.	3.8	15
83	Characterization of $\text{Al}_2\text{O}_3/(\text{Al}_x\text{Si}_{1-x})_3\text{Ti}$ composites. Journal of the European Ceramic Society, 2006, 26, 2719-2726.	2.8	14
84	High capacitance density metal-insulator-metal structures based on a high-k $\text{HfN}_x\text{O}_y/\text{SiO}_2/\text{HfTiO}_y$ laminate stack. Applied Physics Letters, 2008, 92, .	1.5	14
85	Particle occlusion and mechanical properties of Ni-Al <sub>2</sub> O <sub>3</sub> nanocomposites. Journal of the European Ceramic Society, 2013, 33, 3101-3113.	2.8	14
86	Solid-state dewetting of Pt on (100) SrTiO <sub>3</sub> . Journal of Materials Science, 2014, 49, 3863-3874.	1.7	14
87	The solubility limit of SiO <sub>2</sub> in $\alpha$ -alumina at 1600°C. Scripta Materialia, 2014, 86, 40-43.	2.6	14
88	Coverage-dependent self-organized ordering of Co- and Ti-silicide nanoislands along step-bunch edges of vicinal Si(111). Physical Review B, 2011, 83, .	1.1	13
89	The mechanism of grain growth at general grain boundaries in SrTiO <sub>3</sub> . Scripta Materialia, 2020, 188, 206-211.	2.6	13
90	Iron as an Oxygen Tracer at the Aluminum-Alumina Interface. Journal of the American Ceramic Society, 2002, 85, 1601-1606.	1.9	12

#	ARTICLE	IF	CITATIONS
91	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.	1.3	12
92	Dynamical Properties of Optically Sensitive Metal-Insulator-Semiconductor Nonvolatile Memories Based on Pt Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 492-498.	1.1	12
93	Characterization of grain boundary disconnections in SrTiO <sub>3</sub> Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , 2019, 54, 3710-3725.	1.7	12
94	Non-volatile memory transistor based on Pt nanocrystals with negative differential resistance. <i>Journal of Applied Physics</i> , 2012, 112, 024319.	1.1	11
95	Interfacial energies and mass transport in the Ni(Al)-Al <sub>2</sub> O <sub>3</sub> system: The implication of very low oxygen activities. <i>Acta Materialia</i> , 2014, 64, 282-296.	3.8	11
96	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, .	1.1	11
97	The combined influence of Mg and Ca on microstructural evolution of alumina. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4882-4887.	1.9	11
98	The influence of CaO on alumina grain boundary mobility. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1324-1328.	2.8	11
99	Microstructural dependence of giant-magnetoresistance in electrodeposited Cu-Co alloys. <i>Journal of Materials Science</i> , 2004, 39, 5701-5709.	1.7	10
100	Palladium nanoparticles on silica-rich substrates by spontaneous reduction at room temperature. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5239-5249.	0.8	10
101	Microstructure of ZnO films synthesized on MgAl <sub>2</sub> O <sub>4</sub> from low-temperature aqueous solution: growth and post-annealing. <i>Journal of Materials Science</i> , 2013, 48, 1614-1622.	1.7	10
102	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, .	1.1	10
103	The role of carbon and SiO <sub>2</sub> in solid-state sintering of SiC. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2001-2005.	2.8	10
104	Structural disorder in SiGe films grown epitaxially on Si by ion beam sputter deposition. <i>Thin Solid Films</i> , 1997, 294, 64-68.	0.8	9
105	Microstructure of Alumina Composites Containing Niobium and Niobium Aluminides. <i>Journal of the American Ceramic Society</i> , 2000, 83, 397-402.	1.9	9
106	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.	1.1	9
107	Static and dynamic mechanical properties of alumina reinforced with sub-micron Ni particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 1-9.	2.6	9
108	Laser induced Cu/alumina bonding: Microstructure and bond mechanism. <i>Surface and Coatings Technology</i> , 2000, 125, 40-44.	2.2	8

#	ARTICLE	IF	CITATIONS
109	Optical properties of nonvolatile memory capacitors based on gold nanoparticles and SiO <sub>2</sub> /HfO <sub>2</sub> sublayers. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	8
110	The effect of light irradiation on electrons and holes trapping in nonvolatile memory capacitors employing sub 10nm SiO <sub>2</sub> /HfO <sub>2</sub> stacks and Au nanocrystals. <i>Microelectronic Engineering</i> , 2011, 88, 964-968.	1.1	8
111	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.	1.1	8
112	Orientation relationships of copper crystals on sapphire (1 0 1̄, 0) m-plane and (1 0 1̄, 2) r-plane substrates. <i>Journal of Crystal Growth</i> , 2015, 418, 57-63.	0.7	8
113	Structure of the Equilibrated Ni(111)/YSZ(111) Solid-Solid Interface. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1064-1070.	1.9	8
114	The Cr-Doped Ni-YSZ(111) interface: Segregation, oxidation and the Ni equilibrium crystal shape. <i>Acta Materialia</i> , 2019, 166, 28-36.	3.8	8
115	The influence of carbon on the microstructure and wear resistance of alumina. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4214-4225.	1.9	8
116	Shape-controlled nanopores in single crystals. <i>Nanotechnology</i> , 2010, 21, 475301.	1.3	7
117	Equilibrium segregation of Ti to Au/sapphire interfaces. <i>Journal of Materials Science</i> , 2012, 47, 1647-1654.	1.7	7
118	Quantitative differences in the Y grain boundary excess at boundaries delimiting large and small grains in Y doped Al <sub>2</sub> O <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , 2018, 38, 1829-1835.	2.8	7
119	A new phase transition phenomenon in gallium-lanthanide binary alloys. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 571-574.	1.0	6
120	Four questions about triple lines. <i>Scripta Materialia</i> , 2010, 62, 894-898.	2.6	6
121	The equilibrium orientation relationship between Pt and SrTiO <sub>3</sub> and its implication on Pt films deposited by physical vapor phase deposition. <i>Journal of Materials Science</i> , 2014, 49, 3917-3927.	1.7	6
122	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.	1.0	6
123	The influence of temperature on the solubility limit of Ca in alumina. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5767-5772.	2.8	6
124	Alumina-Aluminium Interfaces. , 1998, , 153-160.		6
125	Hf-Doped Ni-Al <sub>2</sub> O <sub>3</sub> Interfaces at Equilibrium. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3997-4003.		5
126	Quantification of ordering at a solid-liquid interface using plasmon electron energy loss spectroscopy. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	5



#	ARTICLE	IF	CITATIONS
127	Insights into the structural, electronic, and magnetic properties of $\text{Fe}_{2-x}\text{Ti}_x\text{O}_3/\text{Fe}_2\text{O}_3$ thin films with $x \approx 0.44$ grown on $\text{Al}_2\text{O}_3$ (0001). <i>Journal of Materials Science</i> , 2015, 50, 122-137.	1.7	5
128	Ordered $\text{LaGa}_4$ and its relation to other structures in the $\text{Ca-La}$ binary system. <i>Journal of Alloys and Compounds</i> , 1996, 232, 126-132.	2.8	4
129	Unusual strain relaxation in $\text{SiGe/Si}$ heterostructures. <i>Applied Physics Letters</i> , 1997, 70, 1287-1289.	1.5	4
130	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.	0.1	4
131	Evolution of Surface Topography of as-Grown Si Films near Amorphous-to-Polycrystalline Transition. <i>Journal of the Electrochemical Society</i> , 2004, 151, C904.	1.3	3
132	Processing and microstructural control of metal-reinforced ceramic matrix nanocomposites. , 2006, , 285-308.		3
133	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.	0.8	3
134	Optical control of capacitance in a metal-insulator-semiconductor diode with embedded metal nanoparticles. <i>Journal of Applied Physics</i> , 2017, 121, 214504.	1.1	3
135	Electrodeposition of Metallic Multilayers by a Pulse Method. <i>Reviews in Analytical Chemistry</i> , 1999, 18, .	1.5	2
136	Morphology of laser treated polycrystalline $\text{Al}_2\text{O}_3$ . <i>Journal of Laser Applications</i> , 1999, 11, 38-41.	0.8	2
137	Factors which determine the orientation of CVD Al films grown on TiN. <i>Solid-State Electronics</i> , 1999, 43, 1011-1014.	0.8	1
138	Advanced Materials and Characterization: Proceedings of the Brandon Symposium. <i>Journal of Materials Science</i> , 2006, 41, 7667-7668.	1.7	1
139	Preface to the HTC 2012 special issue. <i>Journal of Materials Science</i> , 2012, 47, 8245-8246.	1.7	1
140	$\text{Ni-YSZ}$ (001) Solid-Solid Interfacial Energy and Orientation Relationships. <i>Journal of the American Ceramic Society</i> , 2018, 102, 2987.	1.9	1
141	Microstructure of Nb BASED $\text{Al}_2\text{O}_3$ Composites. <i>Microscopy and Microanalysis</i> , 1998, 4, 588-589.	0.2	0
142	Non-Equilibrium Wetting at Aluminium-Sapphire Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 2000, 654, 461.	0.1	0
143	Equilibrium Amorphous Films at Metal-Ceramic Interfaces. <i>Microscopy and Microanalysis</i> , 2004, 10, 274-275.	0.2	0
144	Editorial: Interface Science. <i>Journal of Materials Science</i> , 2007, 42, 9501-9503.	1.7	0

#	ARTICLE	IF	CITATIONS
145	Nonvolatile Memory Capacitors Based on Double Gold nanocrystals and HfO <sub>2</sub> Tunneling and HfNO/HfTiO Laminate Control High-k Insulator Layers. ECS Transactions, 2009, 25, 465-471.	0.3	0
146	Peculiarities of electrical properties of metal-insulator-semiconductor capacitors based on high-k dielectric stack containing HfTiSiO:N and HfTiO:N films. , 2009, , .		0
147	Ultraviolet to near infrared response of optically triggered nonvolatile memories based on platinum nano-particles and high-k dielectrics on a SOI substrate. , 2012, , .		0
148	Preface to the Special Section E-MRS MACAN. Journal of Materials Science, 2012, 47, 1603-1604.	1.7	0
149	Ca segregation at Au-YSZ interfaces. Journal of Materials Science, 2019, 54, 7719-7727.	1.7	0
150	Morphology of laser treated polycrystalline $\alpha$ -Al <sub>2</sub> O <sub>3</sub> . , 1997, , .		0
151	The peculiarities of steels laser treatment with CrB <sub>2</sub> and Ni <sub>2</sub> B powders. , 1998, , .		0