

Carlos G Levi

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143
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82
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147
ext. papers

8,418
ext. citations

4.6
avg, IF

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L-index

#	Paper	IF	Citations
143	Emerging materials and processes for thermal barrier systems. <i>Current Opinion in Solid State and Materials Science</i> , 2004 , 8, 77-91	12	479
142	The influence of oxides on the performance of advanced gas turbines. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1405-1419	6	364
141	Phase equilibria and solidification in Ti-Al alloys. <i>Acta Metallurgica</i> , 1989 , 37, 1321-1336		360
140	Thermochemical Interaction of Thermal Barrier Coatings with Molten CaO-MgO-Al ₂ O ₃ -SiO ₂ (CMAS) Deposits. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3167-3175	3.8	341
139	Environmental degradation of thermal-barrier coatings by molten deposits. <i>MRS Bulletin</i> , 2012 , 37, 932-941	3.41	306
138	Infiltration-Inhibiting Reaction of Gadolinium Zirconate Thermal Barrier Coatings with CMAS Melts. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 576-583	3.8	261
137	Mechanisms of cracking and delamination within thick thermal barrier systems in aero-engines subject to calcium-magnesium-alumino-silicate (CMAS) penetration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 490, 26-35	5.3	171
136	Processing and Performance of an All-Oxide Ceramic Composite. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2077-2086	3.8	170
135	Hydrothermal synthesis of KNbO ₃ and NaNbO ₃ powders. <i>Journal of Materials Research</i> , 2003 , 18, 338-345	5.5	153
134	Thermochemical compatibility between alumina and ZrO ₂ -Y ₂ O ₃ /2 thermal barrier coatings. <i>Acta Materialia</i> , 2005 , 53, 3281-3292	8.4	138
133	Distributed Porosity as a Control Parameter for Oxide Thermal Barriers Made by Physical Vapor Deposition. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2937-2946	3.8	129
132	Microstructure and texture of EB-PVD TBCs grown under different rotation modes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 360, 319-329	5.3	113
131	Silicate Deposit Degradation of Engineered Coatings in Gas Turbines: Progress Toward Models and Materials Solutions. <i>Annual Review of Materials Research</i> , 2017 , 47, 297-330	12.8	112
130	The structure of alumina evolved from the melt and the β - α transformation. <i>Acta Metallurgica</i> , 1989 , 37, 569-578		109
129	Opportunities for TBCs in the ZrO ₂ -Y ₂ O ₃ -Al ₂ O ₃ system. <i>Surface and Coatings Technology</i> , 2007 , 201, 6044-6050	4.4	103
128	Phase selection in electrohydrodynamic atomization of alumina. <i>Journal of Materials Research</i> , 1988 , 3, 969-983	2.5	93
127	CMAS degradation of environmental barrier coatings. <i>Surface and Coatings Technology</i> , 2007 , 202, 653-657	4.74	90

126	Phase Stability of t?-Zirconia-Based Thermal Barrier Coatings: Mechanistic Insights. <i>Journal of the American Ceramic Society</i> , 2011 , 94, s168-s177	3.8	87
125	Metastable Phase Selection and Partitioning for Zr(1-x)AlxO(2-x/2) Materials Synthesized with Liquid Precursors. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2069-2075	3.8	87
124	Nucleation and growth of Al ₂ O ₃ /metal composites by oxidation of aluminum alloys. <i>Journal of Materials Research</i> , 1991 , 6, 1964-1981	2.5	84
123	Alumina Grown during Deposition of Thermal Barrier Coatings on NiCrAlY. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 676-85	3.8	83
122	Effects of Matrix Porosity on the Mechanical Properties of a Porous-Matrix, All-Oxide Ceramic Composite. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2594-2602	3.8	82
121	Low temperature/low pressure hydrothermal synthesis of barium titanate: Powder and heteroepitaxial thin films. <i>Journal of Materials Research</i> , 1995 , 10, 1784-1789	2.5	80
120	Metastability and microstructure evolution in the synthesis of inorganics from precursors11Paper presented at Sympos. Synergistic Synthesis of Inorganic Materials, March 1996, SchloRingberg, Germany.. <i>Acta Materialia</i> , 1998 , 46, 787-800	8.4	74
119	Thermal conductivity of single- and multi-phase compositions in the ZrO ₂ -Y ₂ O ₃ -Ta ₂ O ₅ system. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3085-3094	6	72
118	A model study of displacement instabilities during cyclic oxidation. <i>Acta Materialia</i> , 2002 , 50, 1263-1273	8.4	72
117	Microstructure evolution during conventional and rapid solidification of a Ti-50at%Al alloy. <i>Scripta Metallurgica</i> , 1987 , 21, 1341-1346		72
116	Calcium-Magnesium Alumino-Silicate Interaction with Yttrium Monosilicate Environmental Barrier Coatings. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3504-3511	3.8	71
115	Low thermal conductivity without oxygen vacancies in equimolar YO _{1.5} +TaO _{2.5} - and YbO _{1.5} +TaO _{2.5} -stabilized tetragonal zirconia ceramics. <i>Acta Materialia</i> , 2010 , 58, 4424-4431	8.4	71
114	Application of Metastable Phase Diagrams to Silicate Thin Films for Alternative Gate Dielectrics. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 3593-3597	1.4	70
113	Molten silicate reactions with plasma sprayed ytterbium silicate coatings. <i>Surface and Coatings Technology</i> , 2016 , 288, 151-162	4.4	69
112	Hydrothermal synthesis of perovskite and pyrochlore powders of potassium tantalate. <i>Journal of Materials Research</i> , 2002 , 17, 3168-3176	2.5	69
111	Effect of Yttria Content on the Zirconia Unit Cell Parameters. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4548-4555	3.8	68
110	The high temperature β -field in the titanium-aluminum phase diagram. <i>Scripta Metallurgica</i> , 1988 , 22, 1131-1136		68
109	Effects of cation substitution and temperature on the interaction between thermal barrier oxides and molten CMAS. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 681-691	6	67

108	Stability and CMAS Resistance of Ytterbium-Silicate/Hafnate EBCs/TBC for SiC Composites. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 278-286	3.8	65
107	Metastability of the Fluorite, Pyrochlore, and Perovskite Structures in the PbO-ZrO ₂ -TiO ₂ System. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 873-881	3.8	64
106	The evolution of metastable borides in a Ti-Al-B alloy. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 3395-3406		64
105	Solidification microstructure of supercooled Ti-Al alloys containing intermetallic phases. <i>Acta Metallurgica</i> , 1989 , 37, 2517-2530		64
104	Phase Evolution upon Aging of Air-Plasma Sprayed t?-Zirconia Coatings: IISynchrotron X-Ray Diffraction. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 290-298	3.8	61
103	Molten silicate interactions with thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2014 , 251, 74-86	4.4	60
102	Interaction of molten silicates with thermal barrier coatings under temperature gradients. <i>Acta Materialia</i> , 2015 , 89, 396-407	8.4	55
101	Hydrothermal epitaxy of KNbO ₃ thin films and nanostructures. <i>Journal of Crystal Growth</i> , 2006 , 286, 457-464	1.6	55
100	Heat flow in atomized metal droplets. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1980 , 11, 21-27		55
99	Equilibrium relationships between thermal barrier oxides and silicate melts. <i>Acta Materialia</i> , 2016 , 120, 302-314	8.4	54
98	Phase equilibria in the TiO ₂ -0.5ZrO ₂ system. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 2509-2520		53
97	Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3699-3712	3.8	51
96	Characterization of Al ₂ O ₃ -ZrO ₂ powders produced by electrohydrodynamic atomization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990 , 124, 65-81	5.3	51
95	Microstructural analysis of rapidly solidified Ti-Al-X powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990 , 124, 83-101	5.3	51
94	Thermochemical compatibility of ytterbia(hafnia/silica) multilayers for environmental barrier coatings. <i>Acta Materialia</i> , 2013 , 61, 6743-6755	8.4	50
93	Development of Nano-Composite Microstructures in ZrO ₂ -Al ₂ O ₃ via the Solution Precursor Method. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1489-1494	3.8	50
92	Phase Evolution upon Aging of Air Plasma Sprayed t?-Zirconia Coatings: IIMicrostructure Evolution. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 299-307	3.8	49
91	A probe for the high temperature deformation of thermal barrier oxides. <i>Acta Materialia</i> , 2004 , 52, 1479-1487	4.8	48

90	Interaction of yttrium disilicate environmental barrier coatings with calcium-magnesium-iron alumino-silicate melts. <i>Acta Materialia</i> , 2018 , 145, 451-461	8.4	45
89	A thermogravimetric study of the oxidative growth of Al ₂ O ₃ /Al alloy composites. <i>Journal of Materials Research</i> , 1991 , 6, 1982-1995	2.5	45
88	Melting and Crystallization of Silicate Systems Relevant to Thermal Barrier Coating Damage. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1642-1649	3.8	44
87	The creep and fracture resistance of TiAl reinforced with Al ₂ O ₃ fibers. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 2681-2690		44
86	Vapor deposited samarium zirconate thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2009 , 203, 3157-3167	4.4	42
85	Phase stability of Y + Gd Co-Doped Zirconia. <i>International Journal of Materials Research</i> , 2003 , 94, 163-170		42
84	Crystallization Behavior and Microstructure Evolution of (Al,Fe) ₂ O ₃ Synthesized from Liquid Precursors. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1745-1755	3.8	38
83	The thermal behavior of CMAS-infiltrated thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2015 , 272, 350-356	4.4	37
82	Metastable Phase Selection and Partitioning in ZrO ₂ /MgO Processed from Liquid Precursors. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 946-952	3.8	37
81	Thermal barrier coating toughness: Measurement and identification of a bridging mechanism enabled by segmented microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 564, 324-330	5.3	36
80	Effects of Combustor Rig Exposure on a Porous-Matrix Oxide Composite. <i>International Journal of Applied Ceramic Technology</i> , 2005 , 2, 133-140	2	36
79	A kinetic Monte Carlo simulation of film growth by physical vapor deposition on rotating substrates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 391, 390-401	5.3	36
78	Phase selection in precursor-derived yttrium aluminum garnet and related Al ₂ O ₃ /Y ₂ O ₃ compositions. <i>Journal of Materials Research</i> , 2005 , 20, 1017-1025	2.5	34
77	Controlling Mechanical Properties of Porous Mullite/Alumina Mixtures Via Precursor-Derived Alumina. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 367-375	3.8	33
76	Hybrid intermetallic Ru/Pt-modified bond coatings for thermal barrier systems. <i>Surface and Coatings Technology</i> , 2007 , 202, 349-361	4.4	31
75	The potential of rapid solidification in oxide-dispersion-strengthened copper alloy development. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 142, 277-289	5.3	31
74	The evolution of microcrystalline structures in supercooled metal powders. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 699-708		31
73	Phase equilibria in the ZrO ₂ -YO _{1.5} -TaO _{2.5} system at 1500 °C. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4888-4901	6	30

72	Phase stability of thermal barrier oxides: A comparative study of Y and Yb additions. <i>International Journal of Materials Research</i> , 2007 , 98, 1177-1187	0.5	30
71	Hydrothermal epitaxy of K ₂ O ₃ thin films. <i>Journal of Materials Research</i> , 2002 , 17, 2852-2858	2.5	30
70	Microstructure Evolution of SiC/Al ₂ O ₃ /Al-Alloy Composites Produced by Melt Oxidation. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 1777-1787	3.8	29
69	Response of molten silicate infiltrated Gd ₂ Zr ₂ O ₇ thermal barrier coatings to temperature gradients. <i>Acta Materialia</i> , 2017 , 132, 538-549	8.4	27
68	Metastable extension of the fluorite phase field in Y ₂ O ₃ ?ZrO ₂ and its effect on grain growth. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 1829-1846		27
67	Roles of composition and temperature in silicate deposit-induced recession of yttrium disilicate. <i>Acta Materialia</i> , 2018 , 160, 34-46	8.4	27
66	Microstructure evolution of ZrO ₂ ?bTaO ₄ thermal barrier coatings. <i>Acta Materialia</i> , 2015 , 96, 133-142	8.4	25
65	Accelerated discovery of oxidation resistant CoNi-base γ -Alloys with high L12 solvus and low density. <i>Materials and Design</i> , 2020 , 189, 108445	8.1	25
64	Opportunities for improved TBC durability in the CeO ₂ ?iO ₂ ?rO ₂ system. <i>Surface and Coatings Technology</i> , 2013 , 221, 44-52	4.4	25
63	The structure of complex monoborides in γ -Al alloys with Ta and B additions. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 2381-2391		25
62	Phase equilibria and crystal chemistry in the calcia-silica-yttria system. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1743-1754	6	24
61	Microstructure Evolution of ZrO ₂ -(Fe ₂ O ₃ , Al ₂ O ₃) Materials Synthesized with Solution Precursors. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1684-1690	3.8	23
60	Environmentally compatible double coating concepts for sapphire fiber-reinforced γ -Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 161, 285-293	5.3	23
59	In Situ Diffraction Study of the High-Temperature Decomposition of β -Zirconia. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 247-254	3.8	22
58	Rapid Assessment of Oxidation Behavior in Co-Based γ -Alloys. <i>Oxidation of Metals</i> , 2018 , 90, 485-498	1.6	21
57	Influence of Yb:Hf Ratio on Ytterbium Hafnate/Molten Silicate (CMAS) Reactivity. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 651-659	3.8	21
56	Diffusion limited crystallization and phase partitioning in ZrO ₂ -metal oxide binary systems. <i>Journal of Sol-Gel Science and Technology</i> , 1994 , 2, 317-321	2.3	21
55	Peritectic solidification of TiAl ₃ alloys in the region of γ -Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992 , 156, 153-166	5.3	21

54	Ferroelastic switching of doped zirconia: Modeling and understanding from first principles. <i>Physical Review B</i> , 2014 , 90,	3.3	20
53	Thermal Insulation Coatings of Lapo4. <i>Ceramic Engineering and Science Proceedings</i> , 367-374	0.1	20
52	Phase equilibria in the calcia-gadolinia-silica system. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1397-1404	3.0	19
51	Bimetallic low thermal-expansion panels of Co-base and silicide-coated Nb-base alloys for high-temperature structural applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3973-3980	5.3	19
50	Recent advances in oxide-oxide composite technology. <i>Advanced Composite Materials</i> , 1999 , 8, 17-23	2.8	19
49	Novel oxide-dispersion-strengthened copper alloys from rapidly solidified precursors: Part 2. Creep behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995 , 26, 873-881	2.3	19
48	Crystallization behavior of $\text{Li}_{1-x}\text{Ta}_{1+x}\text{O}_3$ glasses synthesized from liquid precursors. <i>Journal of Materials Research</i> , 1996 , 11, 2376-2387	2.5	19
47	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1777-1803	3.8	17
46	Early Stages of Composite Formation by Oxidation of Liquid Aluminum Alloys. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 609-622	3.8	17
45	In-situ-grown reinforcements for titanium aluminides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 144, 25-36	5.3	17
44	Selective active oxidation in hafnium boride-silicon carbide composites above 2000 °C. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3697-3707	6	16
43	Solidification paths of Ti-Ta-Al alloys. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 2745-2758		15
42	Reactions of molten silicate deposits with yttrium monosilicate. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2919-2932	3.8	15
41	Oxidation Behavior Across Composition Space Relevant to Co-based γ Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5445-5458	2.3	14
40	Phase equilibria in the $\text{ZrO}_2\text{-YO}_{1.5}\text{-TaO}_{2.5}$ system at 1250 °C. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4523-4532	6	13
39	Sub-solidus phase equilibria in the $\text{YO}_{1.5}\text{-TaO}_{2.5}$ system. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4786-4798	6	12
38	Shear band formation in columnar thermal barrier oxides. <i>Acta Materialia</i> , 2005 , 53, 3765-3773	8.4	12
37	Toughening of Nontransformable $\text{t}'\text{-YSZ}$ by Addition of Titania. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070926022312003-???	3.8	11

36	Extended solubility of CoO in ZnO and effects on magnetic properties. <i>Journal of Materials Research</i> , 2006 , 21, 791-801	2.5	11
35	Engineered Coatings for Ni Alloys in High Temperature Reactors. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 835-847	2.3	10
34	Yttrium Bearing Silicon Carbide Matrices for Robust Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1300-1308	3.8	10
33	THE ROLE OF SCARF ANGLE IN THE PERFORMANCE OF ALUMINUM MATRIX COMPOSITE JOINTS. <i>Acta Materialia</i> , 1997 , 45, 2765-2775	8.4	10
32	Phase evolution in the $YO_{1.5}TiO_2-ZrO_2$ system around the pyrochlore region. <i>Acta Materialia</i> , 2005 , 53, 2957-2968	8.4	10
31	Novel oxide-dispersion-strengthened copper alloys from rapidly solidified precursors: Part 1. Microstructural development. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995 , 26, 859-871	2.3	10
30	A computational modeling framework for reaction and failure of environmental barrier coatings under silicate deposits. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5196-5213	3.8	9
29	Thermal considerations on the recalescence of alloy powders. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 687-697		9
28	Microstructure Evolution of Biphasic $TiNi_{1+x}Sn$ Thermoelectric Materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 4116-4127	2.3	9
27	Synthesis and characterization of nanocrystalline $CuAl$ coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 347, 231-242	5.3	8
26	Water Vapor Effects on the CMAS Degradation of Thermal Barrier Coatings. <i>Oxidation of Metals</i> , 2017 , 88, 73-85	1.6	7
25	Phase equilibria in the zirconia/yttria/gadolinia/silica systems. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 3286-3296	6	7
24	Crystallography and substitution patterns in the ZrO_2-TaO_4 system. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
23	Interactions between zirconia/yttria/tantalum thermal barrier oxides and silicate melts. <i>Acta Materialia</i> , 2020 , 185, 171-180	8.4	7
22	Dissolution and diffusion kinetics of yttria-stabilized zirconia into molten silicates. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1984-1994	6	7
21	^{17}O NMR studies of local structure and phase evolution for materials in the $Y_2Ti_2O_7-ZrTiO_4$ binary system. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2175-2185	3.3	6
20	Detection of a marker layer in a 7YSZ thermal barrier coating by femtosecond laser-induced breakdown spectroscopy. <i>Surface and Coatings Technology</i> , 2008 , 202, 3940-3946	4.4	6
19	The strength of metal-matrix composite joints. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3361-3373		6

18	Phase selection in undercooled Ti_3Sn melts. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993 , 24, 1481-1496		6
17	Consolidation of rapidly solidified intermetallic powders using the Ceracon \square process. <i>Journal of Materials Shaping Technology</i> , 1988 , 6, 125-132		6
16	Thermochemistry and phase stability of the polymorphs of yttrium tantalate, YTaO_4 . <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1629-1638	6	6
15	Reactive alloy melt infiltration for SiC composite matrices: Mechanistic insights. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5471-5481	3.8	5
14	Solidification paths and carbide morphologies in melt-processed MoSi_2 -SiC In Situ composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997 , 28, 1889-1900 ²⁻³		5
13	Interfaces in MoSi_2 -SiC In Situ composites synthesized by melt processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997 , 28, 1901-1911	2-3	5
12	Oxidation and Volatilization of Silicide Coatings for Refractory Niobium Alloys 2007 , 261		4
11	Evolution of a metastable FCC solid solution during sputter deposition of Ti?Al?B alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 202, 188-192	5-3	4
10	A Method for Coating Fibers in Oxide Composites. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1331-1333	3.8	3
9	Reactive crystallization in HfO_2 exposed to molten silicates. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5686-5695	6	3
8	Microstructure evolution and physical properties of ZrO_2 -(Y + Yb) $\text{O}_{1.5}$ - $\text{TaO}_{2.5}$ thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2020 , 389, 125648	4-4	2
7	Enthalpies of formation of the solid solutions of $\text{Zr}_x\text{Y}_{0.5x}/2\text{Ta}_{0.5x}/2\text{O}_2$ ($0 \leq x \leq 0.2$ and $0.65 \leq x \leq 1$). <i>Journal of Materials Research</i> , 2019 , 34, 3343-3350	2.5	2
6	Deformation behavior of model MMC scarf joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 281, 113-125	5-3	2
5	Influence of a silicon-bearing film on the early stage oxidation of pure titanium. <i>Journal of Materials Science</i> , 2017 , 52, 9884-9894	4-3	1
4	Metastable Phase Evolution in TiO_2 - $\text{YO}_{3/2}$ - ZrO_2 . <i>Materials Research Society Symposia Proceedings</i> , 2004 , 835, K3.11.1		1
3	Effect of geometry on the performance of model metal matrix composite joints and transitions. <i>Journal of Materials Engineering and Performance</i> , 2000 , 9, 643-648	1.6	1
2	Turbine Materials and Mechanics 2014 , 495-553		1
1	Vapor-mediated melt infiltration for synthesizing SiC composite matrices. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3833-3844	3.8	

