Carlos G Levi

List of Publications by Year
in descending order

145 papers	9,602 citations	29994 54 h-index	39575 94 g-index
147 all docs	147 docs citations	147 times ranked	3820 citing authors

#	Article	IF	Citations
1	Emerging materials and processes for thermal barrier systems. Current Opinion in Solid State and Materials Science, 2004, 8, 77-91.	5.6	557
2	Thermochemical Interaction of Thermal Barrier Coatings with Molten CaO?MgO?Al2O3?SiO2(CMAS) Deposits. Journal of the American Ceramic Society, 2006, 89, 3167-3175.	1.9	471
3	The influence of oxides on the performance of advanced gas turbines. Journal of the European Ceramic Society, 2008, 28, 1405-1419.	2.8	453
4	Environmental degradation of thermal-barrier coatings by molten deposits. MRS Bulletin, 2012, 37, 932-941.	1.7	425
5	Phase equilibria and solidification in Ti-Al alloys. Acta Metallurgica, 1989, 37, 1321-1336.	2.1	398
6	Infiltrationâ€Inhibiting Reaction of Gadolinium Zirconate Thermal Barrier Coatings with CMAS Melts. Journal of the American Ceramic Society, 2008, 91, 576-583.	1.9	352
7	Mechanisms of cracking and delamination within thick thermal barrier systems in aero-engines subject to calcium-magnesium-alumino-silicate (CMAS) penetration. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 26-35.	2.6	238
8	Processing and Performance of an Allâ€Oxide Ceramic Composite. Journal of the American Ceramic Society, 1998, 81, 2077-2086.	1.9	217
9	Silicate Deposit Degradation of Engineered Coatings in Gas Turbines: Progress Toward Models and Materials Solutions. Annual Review of Materials Research, 2017, 47, 297-330.	4.3	205
10	Thermochemical compatibility between alumina and ZrO2â€“GdO3/2 thermal barrier coatings. Acta Materialia, 2005, 53, 3281-3292.	3.8	164
11	Hydrothermal synthesis of KNbO₃ and NaNbO₃ powders. Journal of Materials Research, 2003, 18, 338-345.	1.2	162
12	Distributed Porosity as a Control Parameter for Oxide Thermal Barriers Made by Physical Vapor Deposition. Journal of the American Ceramic Society, 2001, 84, 2937-2946.	1.9	147
13	Opportunities for TBCs in the ZrO2â€“YO1.5â€“TaO2.5 system. Surface and Coatings Technology, 2007, 201, 6044-6050.	2.2	146
14	Microstructure and texture of EB-PVD TBCs grown under different rotation modes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 360, 319-329.	2.6	126
15	Phase Stability oftâ€²â€²Zirconiaâ€Based Thermal Barrier Coatings: Mechanistic Insights. Journal of the American Ceramic Society, 2011, 94, s168.	1.9	119
16	CMAS degradation of environmental barrier coatings. Surface and Coatings Technology, 2007, 202, 653-657.	2.2	118
17	Effects of cation substitution and temperature on the interaction between thermal barrier oxides and molten CMAS. Journal of the European Ceramic Society, 2015, 35, 681-691.	2.8	118
18	The structure of Î´-alumina evolved from the melt and the Î³ â†' Î´ transformation. Acta Metallurgica, 1989, 37, 569-578.	2.1	116

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19	Stability and CMAS Resistance of Ytterbiumâ€Silicate/Hafnate EBCs/TBC for SiC Composites. Journal of the American Ceramic Society, 2015, 98, 278-286.	1.9	116
20	Molten silicate reactions with plasma sprayed ytterbium silicate coatings. Surface and Coatings Technology, 2016, 288, 151-162.	2.2	115
21	Effects of Matrix Porosity on the Mechanical Properties of a Porousâ€Matrix, Allâ€Oxide Ceramic Composite. Journal of the American Ceramic Society, 2001, 84, 2594-2602.	1.9	106
22	Thermal conductivity of single- and multi-phase compositions in the ZrO2â€“Y2O3â€“Ta2O5 system. Journal of the European Ceramic Society, 2014, 34, 3085-3094.	2.8	106
23	Phase selection in electrohydrodynamic atomization of alumina. Journal of Materials Research, 1988, 3, 969-983.	1.2	102
24	Metastable Phase Selection and Partitioning for Zr(1-x)AlxO(2-x/2) Materials Synthesized with Liquid Precursors. Journal of the American Ceramic Society, 1994, 77, 2069-2075.	1.9	98
25	Calciumâ€“Magnesium Aluminoâ€Silicate Interaction with Yttrium Monosilicate Environmental Barrier Coatings. Journal of the American Ceramic Society, 2010, 93, 3504-3511.	1.9	98
26	Nucleation and growth of Al2O3/metal composites by oxidation of aluminum alloys. Journal of Materials Research, 1991, 6, 1964-1981.	1.2	92
27	Low temperature/low pressure hydrothermal synthesis of barium titanate: Powder and heteroepitaxial thin films. Journal of Materials Research, 1995, 10, 1784-1789.	1.2	92
28	Effect of Yttria Content on the Zirconia Unit Cell Parameters. Journal of the American Ceramic Society, 2011, 94, 4548-4555.	1.9	92
29	Alumina Grown during Deposition of Thermal Barrier Coatings on NiCrAlY. Journal of the American Ceramic Society, 2003, 86, 676-85.	1.9	91
30	Low thermal conductivity without oxygen vacancies in equimolar YO1.5+TaO2.5- and YbO1.5+TaO2.5-stabilized tetragonal zirconia ceramics. Acta Materialia, 2010, 58, 4424-4431.	3.8	88
31	Phase Evolution upon Aging of Airâ€Plasma Sprayed tâ€²â€²Zirconia Coatings: Iâ€”Synchrotron Xâ€Ray Diffraction. Journal of the American Ceramic Society, 2013, 96, 290-298.	1.9	87
32	Equilibrium relationships between thermal barrier oxides and silicate melts. Acta Materialia, 2016, 120, 302-314.	3.8	87
33	Interaction of yttrium disilicate environmental barrier coatings with calcium-magnesium-iron alumino-silicate melts. Acta Materialia, 2018, 145, 451-461.	3.8	83
34	Microstructure evolution during conventional and rapid solidification of a Ti-50at%Al alloy. Scripta Metallurgica, 1987, 21, 1341-1346.	1.2	82
35	A model study of displacement instabilities during cyclic oxidation. Acta Materialia, 2002, 50, 1263-1273.	3.8	82
36	Interaction of molten silicates with thermal barrier coatings under temperature gradients. Acta Materialia, 2015, 89, 396-407.	3.8	80

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37	Metastability and microstructure evolution in the synthesis of inorganics from precursors11Paper presented at Sympos. Synergistic Synthesis of Inorganic Materials, March 1996, SchloÃŸ Ringberg, Germany.. Acta Materialia, 1998, 46, 787-800.	3.8	79
38	The evolution of metastable borides in a Tîî—¸Alî—¸B alloy. Acta Metallurgica Et Materialia, 1992, 40, 3395-3406.	1.9	76
39	Hydrothermal synthesis of perovskite and pyrochlore powders of potassium tantalate. Journal of Materials Research, 2002, 17, 3168-3176.	1.2	75
40	Molten silicate interactions with thermal barrier coatings. Surface and Coatings Technology, 2014, 251, 74-86.	2.2	74
41	The high temperature Î± field in the titanium-aluminum phase diagram. Scripta Metallurgica, 1988, 22, 1131-1136.	1.2	73
42	Metastability of the Fluorite, Pyrochlore, and Perovskite Structures in the PbOâ€”ZrO₂â€”TiO₂ System. Journal of the American Ceramic Society, 2000, 83, 873-881.	1.9	73
43	Thermochemical compatibility of ytterbiaâ€“(hafnia/silica) multilayers for environmental barrier coatings. Acta Materialia, 2013, 61, 6743-6755.	3.8	73
44	Phase equilibria in the TiO2â€“YO1.5â€“ZrO2 system. Journal of the European Ceramic Society, 2008, 28, 2509-2520.	2.8	72
45	Application of Metastable Phase Diagrams to Silicate Thin Films for Alternative Gate Dielectrics. Japanese Journal of Applied Physics, 2003, 42, 3593-3597.	0.8	71
46	Solidification microstructure of supercooled Ti-Al alloys containing intermetallic phases. Acta Metallurgica, 1989, 37, 2517-2530.	2.1	70
47	Melting and Crystallization of Silicate Systems Relevant to Thermal Barrier Coating Damage. Journal of the American Ceramic Society, 2015, 98, 1642-1649.	1.9	70
48	Phase Evolution upon Aging of Air Plasma Sprayed tâ€²â€Zirconia Coatings: <scp>II</scp>â€“Microstructure Evolution. Journal of the American Ceramic Society, 2013, 96, 299-307.	1.9	63
49	Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science. Journal of the American Ceramic Society, 2012, 95, 3699-3712.	1.9	59
50	The thermal behavior of CMAS-infiltrated thermal barrier coatings. Surface and Coatings Technology, 2015, 272, 350-356.	2.2	59
51	Heat flow in atomized metal droplets. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1980, 11, 21-27.	0.5	57
52	Characterization of Al2O3î—¸ZrO2 powders produced by electrohydrodynamic atomization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 124, 65-81.	2.6	57
53	Hydrothermal epitaxy of KNbO3 thin films and nanostructures. Journal of Crystal Growth, 2006, 286, 457-464.	0.7	56
54	Microstructural analysis of rapidly solidified Tîî—¸Alî—¸X powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 124, 83-101.	2.6	55

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55	Development of Nano-Composite Microstructures in ZrO2-Al2O3 via the Solution Precursor Method. Journal of the American Ceramic Society, 1995, 78, 1489-1494.	1.9	55
56	Phase equilibria in the ZrO2-YO1.5-TaO2.5 system at 1500 Â°C. Journal of the European Ceramic Society, 2017, 37, 4888-4901.	2.8	55
57	A probe for the high temperature deformation of thermal barrier oxides. Acta Materialia, 2004, 52, 1479-1487.	3.8	52
58	Vapor deposited samarium zirconate thermal barrier coatings. Surface and Coatings Technology, 2009, 203, 3157-3167.	2.2	51
59	A thermogravimetric study of the oxidative growth of Al2O3/Al alloy composites. Journal of Materials Research, 1991, 6, 1982-1995.	1.2	50
60	Roles of composition and temperature in silicate deposit-induced recession of yttrium disilicate. Acta Materialia, 2018, 160, 34-46.	3.8	49
61	Toughening of Nontransformable tâ€²â€²YSZ by Addition of Titania. Journal of the American Ceramic Society, 2007, 90, 3896-3901.	1.9	48
62	Response of molten silicate infiltrated Gd2Zr2O7 thermal barrier coatings to temperature gradients. Acta Materialia, 2017, 132, 538-549.	3.8	48
63	Accelerated discovery of oxidation resistant CoNi-base Î³/Î³â€™ alloys with high L12 solvus and low density. Materials and Design, 2020, 189, 108445.	3.3	48
64	The creep and fracture resistance of Î³-TiAl reinforced with Al2O3 fibers. Acta Metallurgica Et Materialia, 1993, 41, 2681-2690.	1.9	47
65	Phase stability of Y + Gd Co-Doped Zirconia. International Journal of Materials Research, 2003, 94, 163-170.	0.8	46
66	Phase equilibria and crystal chemistry in the calciaâ€“silicaâ€“yttria system. Journal of the European Ceramic Society, 2016, 36, 1743-1754.	2.8	46
67	Crystallization Behavior and Microstructure Evolution of (Al,Fe)2O3 Synthesized from Liquid Precursors. Journal of the American Ceramic Society, 1996, 79, 1745-1755.	1.9	45
68	Effects of Combustor Rig Exposure on a Porous-Matrix Oxide Composite. International Journal of Applied Ceramic Technology, 2005, 2, 133-140.	1.1	43
69	Phase selection in precursor-derived yttrium aluminum garnet and related Al2O3â€“Y2O3 compositions. Journal of Materials Research, 2005, 20, 1017-1025.	1.2	43
70	A kinetic Monte Carlo simulation of film growth by physical vapor deposition on rotating substrates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 391, 390-401.	2.6	42
71	In Situ Diffraction Study of the Highâ€Temperature Decomposition of tâ€²â€Zirconia. Journal of the American Ceramic Society, 2015, 98, 247-254.	1.9	42
72	Metastable Phase Selection and Partitioning in ZrO2-MgO Processed from Liquid Precursors. Journal of the American Ceramic Society, 1992, 75, 946-952.	1.9	41

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73	The potential of rapid solidification in oxide-dispersion-strengthened copper alloy development. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 142, 277-289.	2.6	40
74	Phase stability of thermal barrier oxides: A comparative study of Y and Yb additions. International Journal of Materials Research, 2007, 98, 1177-1187.	0.1	40
75	Thermal barrier coating toughness: Measurement and identification of a bridging mechanism enabled by segmented microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 324-330.	2.6	40
76	Microstructure evolution of ZrO2â€“YbTaO4 thermal barrier coatings. Acta Materialia, 2015, 96, 133-142.	3.8	40
77	Controlling Mechanical Properties of Porous Mullite/Alumina Mixtures Via Precursor-Derived Alumina. Journal of the American Ceramic Society, 2005, 88, 367-375.	1.9	39
78	Hybrid intermetallic Ru/Pt-modified bond coatings for thermal barrier systems. Surface and Coatings Technology, 2007, 202, 349-361.	2.2	39
79	Microstructure Evolution of SiC/Al2O3/Al-Alloy Composites Produced by Melt Oxidation. Journal of the American Ceramic Society, 1993, 76, 1777-1787.	1.9	37
80	The evolution of microcrystalline structures in supercooled metal powders. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 699-708.	1.4	36
81	Influence of Yb:Hf Ratio on Ytterbium Hafnate/Molten Silicate (<scp>CMAS</scp>) Reactivity. Journal of the American Ceramic Society, 2016, 99, 651-659.	1.9	36
82	Reactions of molten silicate deposits with yttrium monosilicate. Journal of the American Ceramic Society, 2020, 103, 2919-2932.	1.9	34
83	Opportunities for improved TBC durability in the CeO2â€“TiO2â€“ZrO2 system. Surface and Coatings Technology, 2013, 221, 44-52.	2.2	33
84	Hydrothermal epitaxy of KtaO₃ thin films. Journal of Materials Research, 2002, 17, 2852-2858.	1.2	32
85	Phase equilibria in the calcia-gadolinia-silica system. Journal of Alloys and Compounds, 2017, 695, 1397-1404.	2.8	32
86	Metastable extension of the fluorite phase field in Y2O3î—¸ZrO2 and its effect on grain growth. Acta Metallurgica Et Materialia, 1994, 42, 1829-1846.	1.9	28
87	Ferroelastic switching of doped zirconia: Modeling and understanding from first principles. Physical Review B, 2014, 90, .	1.1	28
88	Rapid Assessment of Oxidation Behavior in Co-Based Î³/Î³â€² Alloys. Oxidation of Metals, 2018, 90, 485-498.	1.0	27
89	The structure of complex monoborides in Î³-TiAl alloys with Ta and B additions. Acta Metallurgica Et Materialia, 1991, 39, 2381-2391.	1.9	26
90	Dissolution and diffusion kinetics of yttria-stabilized zirconia into molten silicates. Journal of the European Ceramic Society, 2021, 41, 1984-1994.	2.8	26

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91	Environmentally compatible double coating concepts for sapphire fiber-reinforced Î³-TiAl. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 161, 285-293.	2.6	25
92	Diffusion limited crystallization and phase partitioning in ZrO2-metal oxide binary systems. Journal of Sol-Gel Science and Technology, 1994, 2, 317-321.	1.1	25
93	Thermal Insulation Coatings of Lapo4. Ceramic Engineering and Science Proceedings, 0, , 367-374.	0.1	25
94	Microstructure Evolution of ZrO₂â€(Fe₂O₃,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (Al<su American Ceramic Society, 1997, 80, 1684-1690.	1.9	25
95	Phase equilibria in the ZrO2-YO1.5-TaO2.5 system at 1250 Â°C. Journal of the European Ceramic Society, 2018, 38, 4523-4532.	2.8	25
96	Peritectic solidification of Tiâ€"Alâ€"Ta alloys in the region of Î³-TiAl. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 156, 153-166.	2.6	24
97	Bimetallic low thermal-expansion panels of Co-base and silicide-coated Nb-base alloys for high-temperature structural applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3973-3980.	2.6	23
98	The role of ceramic and glass science research in meeting societal challenges: Report from an <scp>NSF</scp>â€sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	1.9	23
99	Recent advances in oxide-oxide composite technology. Advanced Composite Materials, 1999, 8, 17-23.	1.0	22
100	Early Stages of Composite Formation by Oxidation ofLiquid Aluminum Alloys. Journal of the American Ceramic Society, 1995, 78, 609-622.	1.9	21
101	Novel oxide-dispersion-strengthened copper alloys from rapidly solidified precursors: Part 2. Creep behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 873-881.	1.1	21
102	Crystallization behavior of Li1â€"5x Ta1+xO3 glasses synthesized from liquid precursors. Journal of Materials Research, 1996, 11, 2376-2387.	1.2	21
103	Selective active oxidation in hafnium boride-silicon carbide composites above 2000 Â°C. Journal of the European Ceramic Society, 2016, 36, 3697-3707.	2.8	21
104	Thermochemistry and phase stability of the polymorphs of yttrium tantalate, YTaO4. Journal of the European Ceramic Society, 2021, 41, 1629-1638.	2.8	20
105	A computational modeling framework for reaction and failure of environmental barrier coatings under silicate deposits. Journal of the American Ceramic Society, 2020, 103, 5196-5213.	1.9	19
106	Solidification paths of Tiî—¸Taî—¸Al alloys. Acta Metallurgica Et Materialia, 1991, 39, 2745-2758.	1.9	17
107	In-situ-grown reinforcements for titanium aluminides. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 144, 25-36.	2.6	17
108	Sub-solidus phase equilibria in the YO1.5-TaO2.5 system. Journal of the European Ceramic Society, 2018, 38, 4786-4798.	2.8	17

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109	Oxidation Behavior Across Composition Space Relevant to Co-based Î³/Î³â€² Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5445-5458.	1.1	17
110	Interactions between zirconiaâ€“yttriaâ€“tantala thermal barrier oxides and silicate melts. Acta Materialia, 2020, 185, 171-180.	3.8	17
111	Yttrium Bearing Silicon Carbide Matrices for Robust Ceramic Composites. Journal of the American Ceramic Society, 2013, 96, 1300-1308.	1.9	16
112	Phase evolution in the YO1.5â€“TiO2â€“ZrO2 system around the pyrochlore region. Acta Materialia, 2005, 53, 2957-2968.	3.8	14
113	Shear band formation in columnar thermal barrier oxides. Acta Materialia, 2005, 53, 3765-3773.	3.8	14
114	Water Vapor Effects on the CMAS Degradation of Thermal Barrier Coatings. Oxidation of Metals, 2017, 88, 73-85.	1.0	13
115	Reactive alloy melt infiltration for SiC composite matrices: Mechanistic insights. Journal of the American Ceramic Society, 2017, 100, 5471-5481.	1.9	13
116	Reactive crystallization in HfO2 exposed to molten silicates. Journal of the European Ceramic Society, 2021, 41, 5686-5695.	2.8	13
117	Novel oxide-dispersion-strengthened copper alloys from rapidly solidified precursors: Part 1. Microstructural development. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 859-871.	1.1	12
118	THE ROLE OF SCARF ANGLE IN THE PERFORMANCE OF ALUMINUM MATRIX COMPOSITE JOINTS. Acta Materialia, 1997, 45, 2765-2775.	3.8	11
119	Extended solubility of CoO in ZnO and effects on magnetic properties. Journal of Materials Research, 2006, 21, 791-801.	1.2	11
120	Microstructure Evolution of Biphasic TiNi1+x Sn Thermoelectric Materials. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4116-4127.	1.1	11
121	Thermal considerations on the recalescence of alloy powders. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 687-697.	1.4	10
122	Engineered Coatings for Ni Alloys in High Temperature Reactors. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 835-847.	1.1	10
123	Synthesis and characterization of nanocrystalline Cuâ€“Al coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 347, 231-242.	2.6	9
124	Oxidation and Volatilization of Silicide Coatings for Refractory Niobium Alloys. , 2007, , 261.		9
125	Phase equilibria in the zirconiaâ€“yttria/gadoliniaâ€“silica systems. Journal of the European Ceramic Society, 2018, 38, 3286-3296.	2.8	9
126	Protocol for selecting exemplary silicate deposit compositions for evaluating thermal and environmental barrier coatings. Journal of the American Ceramic Society, 2022, 105, 3665-3688.	1.9	9

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127	Crystallography and substitution patterns in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Zr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mtext>â^’</mml:mtext><mml:mi>Yb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> system. Physical Review Materials, 2018, 2, .	3.1	8
128	Phase selection in undercooled ti3sn melts. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1481-1496.	1.4	7
129	The strength of metal-matrix composite joints. Acta Metallurgica Et Materialia, 1995, 43, 3361-3373.	1.9	7
130	17O NMR studies of local structure and phase evolution for materials in the Y2Ti2O7â€“ZrTiO4 binary system. Journal of Solid State Chemistry, 2007, 180, 2175-2185.	1.4	7
131	Microstructure evolution and physical properties of ZrO2-(Yâ€¯+â€¯Yb)O1.5-TaO2.5 thermal barrier coatings. Surface and Coatings Technology, 2020, 389, 125648.	2.2	7
132	Consolidation of rapidly solidified intermetallic powders using the CeraconÂ® process. Journal of Materials Shaping Technology, 1988, 6, 125-132.	0.3	6
133	Solidification paths and carbide morphologies in melt-processed MoSi2-SiC In Situ composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1889-1900.	1.1	6
134	Interfaces in MoSi2-SiC In Situ composites synthesized by melt processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1901-1911.	1.1	6
135	Detection of a marker layer in a 7YSZ thermal barrier coating by femtosecond laser-induced breakdown spectroscopy. Surface and Coatings Technology, 2008, 202, 3940-3946.	2.2	6
136	Evolution of a metastable FCC solid solution during sputter deposition of Tiî—¸Alî—¸B alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 202, 188-192.	2.6	4
137	A Method for Coating Fibers in Oxide Composites. Journal of the American Ceramic Society, 2007, 90, 1331-1333.	1.9	4
138	Influence of a silicon-bearing film on the early stage oxidation of pure titanium. Journal of Materials Science, 2017, 52, 9884-9894.	1.7	4
139	Deformation behavior of model MMC scarf joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 281, 113-125.	2.6	3
140	Enthalpies of formation of the solid solutions of ZrxY0.5â^’x/2Ta0.5â^’x/2O2 (0 â‰¤ x â‰¤ 0.2 and 0.65 â‰¤ x â‰¤ 1). Journal of Materials Research, 2019, 34, 3343-3350.	1.2	3
141	Effect of Geometry on the Performance of Model Metal Matrix Composite Joints and Transitions. Journal of Materials Engineering and Performance, 2000, 9, 643-648.	1.2	2
142	Turbine Materials and Mechanics. , 2014, , 495-553.		2
143	Metastable Phase Evolution in TiO2-YO3/2-ZrO2. Materials Research Society Symposia Proceedings, 2004, 835, K3.11.1.	0.1	1
144	Vaporâ€mediated melt infiltration for synthesizing SiC composite matrices. Journal of the American Ceramic Society, 2021, 104, 3833-3844.	1.9	1

#	Article	IF	Citations
145	Investigating the electronic origins of the repulsion between substitutional and interstitial solutes in hcp Ti. Physical Review Materials, 2021, 5, .	0.9	1