

Ta Parthasarathy

List of Publications by Year in descending order

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213
papers

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4045
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#	ARTICLE	IF	CITATIONS
1	Size-affected single-slip behavior of pure nickel microcrystals. <i>Acta Materialia</i> , 2005, 53, 4065-4077.	3.8	610
2	Contribution to size effect of yield strength from the stochastics of dislocation source lengths in finite samples. <i>Scripta Materialia</i> , 2007, 56, 313-316.	2.6	475
3	Theoretical Analysis of the Fiber Pullout and Pushout Tests. <i>Journal of the American Ceramic Society</i> , 1991, 74, 1585-1596.	1.9	416
4	A model for the oxidation of ZrB ₂ , HfB ₂ and TiB ₂ . <i>Acta Materialia</i> , 2007, 55, 5999-6010.	3.8	316
5	Athermal mechanisms of size-dependent crystal flow gleaned from three-dimensional discrete dislocation simulations. <i>Acta Materialia</i> , 2008, 56, 3245-3259.	3.8	285
6	Interface Design for Oxidation-Resistant Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2599-2632.	1.9	261
7	Oxidation mechanisms in Mo-reinforced Mo ₅ SiB ₂ (T ₂)-Mo ₃ Si alloys. <i>Acta Materialia</i> , 2002, 50, 1857-1868.	3.8	211
8	Effect of Interfacial Roughness on the Frictional Stress Measured Using Pushout Tests. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2793-2801.	1.9	160
9	Chemical short range order strengthening in a model FCC high entropy alloy. <i>Acta Materialia</i> , 2020, 190, 29-42.	3.8	153
10	Atomistic simulations of dislocations in a model BCC multicomponent concentrated solid solution alloy. <i>Acta Materialia</i> , 2017, 125, 311-320.	3.8	148
11	The role of grain size and selected microstructural parameters in strengthening fully lamellar TiAl alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998, 29, 37-47.	1.1	131
12	Oxidation behavior of $\hat{\pm}$ Mo-Mo ₃ Si-Mo ₅ SiB ₂ (T ₂) three phase system. <i>Intermetallics</i> , 2002, 10, 225-232.	1.8	127
13	Deformation Behavior of an Al ₂ O ₃ /Y ₃ Al ₅ O ₁₂ Eutectic Composite in Comparison with Sapphire and YAG. <i>Journal of the American Ceramic Society</i> , 1993, 76, 29-32.	1.9	114
14	Creep Mechanism of Polycrystalline Yttrium Aluminum Garnet. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1756-1759.	1.9	110
15	Tailorable thermal expansion hybrid structures. <i>International Journal of Solids and Structures</i> , 2009, 46, 2372-2387.	1.3	109
16	Green's function boundary conditions in two-dimensional and three-dimensional atomistic simulations of dislocations. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 77, 231-256.	0.7	107
17	Effectiveness of Monazite Coatings in Oxide/Oxide Composites after Long-Term Exposure at High Temperature. <i>Journal of the American Ceramic Society</i> , 2003, 86, 325-332.	1.9	105
18	Atomistic simulations of dislocation behavior in a model FCC multicomponent concentrated solid solution alloy. <i>Acta Materialia</i> , 2017, 134, 188-194.	3.8	103

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19	Modeling solution hardening in BCC refractory complex concentrated alloys: NbTiZr, Nb _{1.5} TiZr _{0.5} and Nb _{0.5} TiZr _{1.5} . Acta Materialia, 2019, 168, 222-236.	3.8	103
20	Modeling Oxidation Kinetics of SiC-Containing Refractory Diborides. Journal of the American Ceramic Society, 2012, 95, 338-349.	1.9	98
21	An orderfield property for stochastic games when one player controls transition probabilities. Journal of Optimization Theory and Applications, 1981, 33, 375-392.	0.8	97
22	Atomistic simulation of cross-slip processes in model fcc structures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 1167-1192.	0.7	95
23	Optimal Plans for Dynamic Programming Problems. Mathematics of Operations Research, 1976, 1, 390-394.	0.8	92
24	Analysis of the effect of interfacial roughness on fiber debonding and sliding in brittle matrix composites. Acta Metallurgica Et Materialia, 1994, 42, 3773-3784.	1.9	87
25	On stochastic games. Journal of Optimization Theory and Applications, 1970, 5, 289-300.	0.8	84
26	Observations on the creep behavior of fully-lamellar polycrystalline TiAl: Identification of critical effects. Scripta Materialia, 1997, 37, 315-321.	2.6	83
27	Oxidation Kinetics of a Continuous Carbon Phase in a Nonreactive Matrix. Journal of the American Ceramic Society, 1995, 78, 972-980.	1.9	79
28	Oxidation Behavior of Zirconium Diboride Silicon Carbide Produced by the Spark Plasma Sintering Method. Journal of the American Ceramic Society, 2009, 92, 2046-2052.	1.9	78
29	Oxidation Resistance of Hafnium Diboride Ceramics with Additions of Silicon Carbide and Tungsten Boride or Tungsten Carbide. Journal of the American Ceramic Society, 2011, 94, 2600-2607.	1.9	77
30	Criteria for crack deflection/penetration criteria for fiber-reinforced ceramic matrix composites. Composites Science and Technology, 1998, 58, 1775-1784.	3.8	76
31	Thermal and Oxidation Response of UHTC Leading Edge Samples Exposed to Simulated Hypersonic Flight Conditions. Journal of the American Ceramic Society, 2013, 96, 907-915.	1.9	74
32	Crack deflection in ceramic composites and fiber coating design criteria. Composites Part A: Applied Science and Manufacturing, 1999, 30, 521-524.	3.8	70
33	Synthesis and structure-activity relationships of novel pyrimido[1,2-b]indazoles as potential anticancer agents against A-549 cell lines. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3445-3453.	1.0	68
34	Modeling environmentally induced property degradation of SiC/BN/SiC ceramic matrix composites. Journal of the American Ceramic Society, 2018, 101, 973-997.	1.9	67
35	Discounted, positive, and noncooperative stochastic games. International Journal of Game Theory, 1973, 2, 25-37.	0.5	63
36	Overview of experiments on microcrystal plasticity in FCC-derivative materials: selected challenges for modelling and simulation of plasticity. Modelling and Simulation in Materials Science and Engineering, 2007, 15, 135-146.	0.8	63

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37	Compressive creep behavior of Nb ₅ Si ₃ . Scripta Metallurgica Et Materialia, 1995, 32, 1227-1232.	1.0	61
38	Characterization of Oxidized Polymer-Derived SiBCN Fibers. Journal of the American Ceramic Society, 2001, 84, 2197-2202.	1.9	60
39	Molecular statics simulations of core structures and motion of dislocations in NiAl. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 643-662.	0.7	56
40	Permutation games: Another class of totally balanced games. OR Spectrum, 1984, 6, 119-123.	2.1	55
41	Calculations of intersection cross-slip activation energies in fcc metals using nudged elastic band method. Acta Materialia, 2011, 59, 7135-7144.	3.8	53
42	The Effect of Lamellar Lath Spacing on the Creep Behavior of Ti-47at% Al. Scripta Materialia, 1998, 38, 1025-1031.	2.6	52
43	Diffusion induced grain boundary migration in Ni-C alloys. Scripta Metallurgica, 1983, 17, 943-946.	1.2	50
44	Large Cores and Exactness. Games and Economic Behavior, 1999, 28, 1-12.	0.4	50
45	Extraction of interface properties from a fiber push-out test. Scripta Metallurgica Et Materialia, 1991, 25, 2457-2462.	1.0	49
46	Effects of Phase Change and Oxygen Permeability in Oxide Scales on Oxidation Kinetics of ZrB ₂ and HfB ₂ . Journal of the American Ceramic Society, 2009, 92, 1079-1086.	1.9	47
47	Predicted performance limits of yttrium aluminum garnet fiber lasers. Optical Engineering, 2010, 49, 094302.	0.5	47
48	Existence of stationary equilibrium strategies in non-zero sum discounted stochastic games with uncountable state space and state-independent transitions. International Journal of Game Theory, 1989, 18, 189-194.	0.5	45
49	Complementarity forms of theorems of Lyapunov and Stein, and related results. Linear Algebra and Its Applications, 2000, 320, 131-144.	0.4	45
50	Phenomenological observations of lamellar orientation effects on the creep behavior of Ti-48at.%Al PST crystals. Acta Materialia, 2000, 48, 541-551.	3.8	45
51	Life prediction under tension of titanium alloys that develop an oxygenated brittle case during use. Scripta Materialia, 2011, 65, 420-423.	2.6	45
52	Solution hardening in body-centered cubic quaternary alloys interpreted using Suzuki's kink-solute interaction model. Scripta Materialia, 2019, 165, 103-106.	2.6	45
53	Fugitive Interfacial Carbon Coatings for Oxide/Oxide Composites. Journal of the American Ceramic Society, 2000, 83, 329-336.	1.9	44
54	Activated states for cross-slip at screw dislocation intersections in face-centered cubic nickel and copper via atomistic simulation. Acta Materialia, 2010, 58, 5547-5557.	3.8	44

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55	Predicted Effects of Interfacial Roughness on the Behavior of Selected Ceramic Composites. Journal of the American Ceramic Society, 1997, 80, 2043-2055.	1.9	42
56	Modeling the Ultimate Tensile Strength of Unidirectional Glass-Matrix Composites. Journal of the American Ceramic Society, 2000, 83, 166-174.	1.9	41
57	Effect of Interfacial Roughness Parameters on the Fiber Pushout Behavior of a Model Composite. Journal of the American Ceramic Society, 1994, 77, 3232-3236.	1.9	40
58	Fabrication and Testing of Oxide/Oxide Microcomposites with Monazite and Hibonite as Interlayers. Journal of the American Ceramic Society, 1999, 82, 3575-3583.	1.9	40
59	Numerical study on microcompression tests of anisotropic single crystals. Scripta Materialia, 2007, 57, 849-852.	2.6	40
60	Qualitative analysis of hafnium diboride based ultra high temperature ceramics under oxyacetylene torch testing at temperatures above 2100°C. Journal of the European Ceramic Society, 2014, 34, 1045-1051.	2.8	40
61	Monazite Coatings on SiC Fibers I: Fiber Strength and Thermal Stability. Journal of the American Ceramic Society, 2006, 89, 3475-3480.	1.9	39
62	Anisotropy in room temperature microhardness and fracture of CaWo ₄ scheelite. Acta Materialia, 2004, 52, 5529-5537.	3.8	36
63	The strength and dislocation microstructure evolution in superalloy microcrystals. Journal of the Mechanics and Physics of Solids, 2017, 99, 146-162.	2.3	36
64	N-matrices. Linear Algebra and Its Applications, 1990, 139, 89-102.	0.4	35
65	Flow behavior of PST and fully lamellar polycrystals of Ti-48Al in the microstrain regime. Acta Materialia, 1998, 46, 4005-4016.	3.8	35
66	Design, synthesis, structure-activity relationship and antibacterial activity series of novel imidazo fused quinolone carboxamides. European Journal of Medicinal Chemistry, 2009, 44, 1570-1578.	2.6	34
67	Existence of β -equilibrium and optimal stationary strategies in stochastic games. Proceedings of the American Mathematical Society, 1976, 60, 245-245.	0.4	33
68	On stochastic games, II. Journal of Optimization Theory and Applications, 1971, 8, 154-160.	0.8	32
69	Diffusion induced recrystallization of NiO. Acta Metallurgica, 1984, 32, 29-33.	2.1	32
70	Evaluation of Porous ZrO ₂ -SiO ₂ and Monazite Coatings Using Nextel TM 720-Fiber-Reinforced Blackglas [®] Minicomposites. Journal of the American Ceramic Society, 2001, 84, 1526-1532.	1.9	32
71	Atomistic simulations of cross-slip nucleation at screw dislocation intersections in face-centered cubic nickel. Philosophical Magazine, 2009, 89, 3351-3369.	0.7	30
72	Issues in the control of fiber/matrix interfaces in ceramic composites. Composites Science and Technology, 1994, 51, 291-296.	3.8	29

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73	A Fast Spreadsheet Model for the Yield Strength of Superalloys. , 2004, , .		29
74	Mechanisms of Hydrogen Attack of carbon and 2Cr-1Mo steels. Acta Metallurgica, 1985, 33, 1673-1681.	2.1	28
75	Empirical Interatomic Potentials for L10 Tial and B2 Nial. Materials Research Society Symposia Proceedings, 1990, 213, 125.	0.1	28
76	Composition, lattice parameters, and room temperature elastic constants of natural single crystal xenotime from Novo Horizonte. Physics and Chemistry of Minerals, 2006, 33, 691-698.	0.3	28
77	Atomistic simulations of surface cross-slip nucleation in face-centered cubic nickel and copper. Acta Materialia, 2013, 61, 2500-2508.	3.8	28
78	Screw dislocation cross slip at cross-slip plane jogs and screw dipole annihilation in FCC Cu and Ni investigated via atomistic simulations. Acta Materialia, 2015, 101, 10-15.	3.8	28
79	Modeling Environmental Degradation of SiC-Based Fibers. Journal of the American Ceramic Society, 2016, 99, 1725-1734.	1.9	28
80	A molecular dynamics technique for determining energy landscapes as a dislocation percolates through a field of solutes. Acta Materialia, 2019, 166, 658-676.	3.8	28
81	Some Properties of Fully Semimonotone, Q_0 Q -Matrices. SIAM Journal on Matrix Analysis and Applications, 1995, 16, 1268-1286.	0.7	27
82	A Model for Transitions in Oxidation Regimes of ZrB ₂ . Materials Science Forum, 0, 595-598, 823-832.	0.3	27
83	Predicting the effects of microstructure on matrix crack initiation in fiber reinforced ceramic matrix composites via machine learning. Composite Structures, 2020, 236, 111702.	3.1	26
84	PIVOTING ALGORITHMS FOR SOME CLASSES OF STOCHASTIC GAMES: A SURVEY. International Game Theory Review, 2001, 03, 253-281.	0.3	25
85	Combined Effects of Exposure to Salt (NaCl) Water and Oxidation on the Strength of Uncoated and BN-Coated Nicalon _® Fibers. Journal of the American Ceramic Society, 1998, 81, 1812-1818.	1.9	25
86	Evaluation of Oxide-Oxide Composites in a Novel Combustor Wall Application. International Journal of Applied Ceramic Technology, 2005, 2, 122-132.	1.1	25
87	Stochastic Games with State Independent Transitions and Separable Rewards. Lecture Notes in Economics and Mathematical Systems, 1984, , 262-271.	0.3	25
88	Large-scale dislocation dynamics simulations of strain hardening of Ni microcrystals under tensile loading. Acta Materialia, 2019, 164, 171-183.	3.8	24
89	Almost N-matrices and linear complementarity. Linear Algebra and Its Applications, 1991, 145, 107-125.	0.4	23
90	Atomistic simulations of the structure and stability of α -PPV locks in an L12 compound. Acta Materialia, 1996, 44, 2237-2247.	3.8	23

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91	Structural ceramic composites. <i>Current Opinion in Solid State and Materials Science</i> , 1999, 4, 445-451.	5.6	23
92	Processing and Testing of RE ₂ Si ₂ O ₇ Fiber Matrix Interphases for SiC/SiC Composites. <i>Journal of the American Ceramic Society</i> , 2016, 99, 415-423.	1.9	23
93	Diffusion induced dislocation glide. <i>Scripta Metallurgica</i> , 1983, 17, 1231-1235.	1.2	22
94	Numerical study of the flow responses and the geometric constraint effects in Ni-base two-phase single crystals using strain gradient plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 397, 69-83.	2.6	22
95	Interface Properties in High-Strength Nicalon/C/SiC Composites, As Determined by Rough Surface Analysis of Fiber Push-Out Tests. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1881-1887.	1.9	22
96	Extraction of Weibull Parameters of Fiber Strength from Means and Standard Deviations of Failure Loads and Fiber Diameters. <i>Journal of the American Ceramic Society</i> , 2001, 84, 588-592.	1.9	21
97	Porous Yttrium Aluminum Garnet Fiber Coatings for Oxide Composites. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2703-2710.	1.9	21
98	Spontaneous athermal cross-slip nucleation at screw dislocation intersections in FCC metals and L1 ₂ intermetallics investigated via atomistic simulations. <i>Philosophical Magazine</i> , 2013, 93, 3012-3028.	0.7	21
99	Transformation Plasticity in (Gd) _x (Dy) _{1-x} PO ₄ Fiber Coatings During Fiber Push Out. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1586-1595.		
100	Implications from pre-straining experiments on emerging kink-based models for anomalous flow in L1 ₂ alloys. <i>Philosophical Magazine Letters</i> , 1995, 71, 21-31.	0.5	20
101	Processing, Microstructure, and Strength of Alumina-YAG Eutectic Polycrystals. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2088-2090.	1.9	20
102	Discrete dislocation simulations of precipitation hardening in inverse superalloys. <i>Philosophical Magazine Letters</i> , 2006, 86, 215-225.	0.5	20
103	Evaluation of SiC/SiC minicomposites with yttrium disilicate fiber coating. <i>Journal of the American Ceramic Society</i> , 2018, 101, 91-102.	1.9	20
104	Fully copositive matrices. <i>Mathematical Programming</i> , 1998, 82, 401-411.	1.6	19
105	GdCl ₃ promoted synthesis of novel pyrimidine fused indazole derivatives and their anticancer activity. <i>Medicinal Chemistry Research</i> , 2012, 21, 4261-4273.	1.1	19
106	Microstructural Stability of Nicalon at 1000deg;C in Air after Exposure to Salt (NaCl) Water. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1992-1996.	1.9	18
107	Zirconia-Silica-Carbon Coatings on Ceramic Fibers. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1967-1976.	1.9	18
108	Process modeling of the low-temperature evolution and yield of polycarbosilanes for ceramic matrix composites. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2809-2818.	1.9	18

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109	Estimation of diffusional effects on solution hardening at high temperatures in single phase compositionally complex body centered cubic alloys. Scripta Materialia, 2019, 172, 135-137.	2.6	18
110	Atomistic simulations of intersection cross-slip nucleation in L12 Ni3Al. Scripta Materialia, 2012, 66, 410-413.	2.6	17
111	Separating Test Artifacts from Material Behavior in the Oxidation Studies of HfB_2/SiC at 2000°C and Above. International Journal of Applied Ceramic Technology, 2013, 10, 293-300.	1.1	17
112	Experimental investigation into the crack propagation in multiphase tantalum carbide ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 315-321.	2.6	17
113	Relationship Between Strong Monotonicity Property, P2-Property, and the Gus-Property in Semidefinite Linear Complementarity Problems. Mathematics of Operations Research, 2002, 27, 326-331.	0.8	16
114	QSAR studies of potent benzodiazepine β -secretase inhibitors. Bioorganic and Medicinal Chemistry, 2005, 13, 1873-1878.	1.4	16
115	Toughening of SiC with Ti3SiC2 Particles. Journal of the American Ceramic Society, 2006, 89, 633-637.	1.9	16
116	Design-tool representations of strain compatibility and stress-strain relationships for lamellar gamma titanium aluminides. Intermetallics, 2001, 9, 875-882.	1.8	15
117	Effective Fiber Properties to Incorporate Coating Thermoelastic Effects in Fiber/Matrix Composite Models. Journal of the American Ceramic Society, 1999, 82, 579-584.	1.9	15
118	A crystal-plasticity FEM study on effects of simplified grain representation and mesh types on mesoscopic plasticity heterogeneities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 553, 37-44.	2.6	15
119	Porous Rare-Earth Aluminate Fiber Coatings for Oxide-Oxide Composites. Ceramic Engineering and Science Proceedings, 0, , 219-228.	0.1	15
120	The Linear Complementarity Problem with Exact Order Matrices. Mathematics of Operations Research, 1994, 19, 618-644.	0.8	14
121	Effect of yttria concentration on low strain rate flow stress of cubic zirconia single crystals. Acta Materialia, 1996, 44, 4663-4676.	3.8	14
122	A crystallographic constitutive model for Ni3Al (L12) intermetallics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 400-401, 256-259.	2.6	14
123	On Games Over the Unit Square. SIAM Journal on Applied Mathematics, 1970, 19, 473-476.	0.8	13
124	Discounted and positive stochastic games. Bulletin of the American Mathematical Society, 1971, 77, 134-136.	3.0	13
125	Existence of Saddle Points and Nash Equilibrium Points for Differential Games. SIAM Journal on Control and Optimization, 1975, 13, 977-980.	1.6	13
126	Lipschitzian Q-matrices are P-matrices. Mathematical Programming, 1996, 74, 55-58.	1.6	13

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127	Vertical linear complementarity and discounted zero-sum stochastic games with ARAT structure. <i>Mathematical Programming</i> , 1999, 86, 637-648.	1.6	13
128	Stability and Largeness of the Core. <i>Games and Economic Behavior</i> , 2001, 34, 227-237.	0.4	13
129	Analysis of ceramics toughened by non-conventional fiber reinforcement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 443, 120-131.	2.6	13
130	Thermal history sensor based on glass-ceramics. <i>Sensors and Actuators A: Physical</i> , 2008, 141, 245-255.	2.0	13
131	Lasing of surface-polished polycrystalline Ho: YAG (yttrium aluminum garnet) fiber. <i>Optics Express</i> , 2017, 25, 6725.	1.7	13
132	DIGM or DIR in CoO. <i>Scripta Metallurgica</i> , 1984, 18, 811-812.	1.2	12
133	Synthesis, characterization and molecular docking studies of novel 2-amino 3-cyano pyrano[2,3H]chrysin derivatives as potential antimicrobial agents. <i>Medicinal Chemistry Research</i> , 2015, 24, 3696-3709.	1.1	12
134	A copositive Q-matrix which is not R O. <i>Mathematical Programming</i> , 1993, 61, 131-135.	1.6	11
135	Effects of Temperature, Environment, and Orientation on the Fracture Toughness of Single-Crystal YAG. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2730-2734.	1.9	11
136	Development of a Test to Evaluate Aerothermal Response of Materials to Hypersonic Flow Using a Scramjet Wind Tunnel. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 832-847.	1.1	11
137	Constitutive Model for Anisotropic Creep Behaviors of Single-Crystal Ni-Base Superalloys in the Low-Temperature, High-Stress Regime. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1861-1869.	1.1	11
138	Stability and largeness of core for symmetric games. <i>International Journal of Game Theory</i> , 2000, 29, 11-22.	0.5	10
139	QSAR studies of N1-(5-chloro-2-pyridyl)-2-[4-(alkyl methyl)benzoyl]amino}-5-chlorobenzamide analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 319-325.	1.4	10
140	In situ Y ₂ Si ₂ O ₇ coatings on Hi-Nicalon® SiC fibers: Phase formation and fiber strength. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5725-5737.	1.9	10
141	Evaluation of Monazite Fiber Coatings in Dense Matrix Composites. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 451-461.	0.1	10
142	Chemically driven cavity growth. <i>Scripta Metallurgica</i> , 1983, 17, 39-43.	1.2	9
143	On co-positive, semi-monotone Q-matrices. <i>Mathematical Programming</i> , 1995, 68, 187-203.	1.6	9
144	On the Solution Sets of Linear Complementarity Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2000, 21, 1229-1235.	0.7	9

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145	Analytical evaluation of hybrid ceramic design concepts for optimized structural performance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 459, 60-68.	2.6	9
146	The Jacobian Matrix, Global Univalence and Completely Mixed Games. <i>Mathematics of Operations Research</i> , 1986, 11, 663-671.	0.8	8
147	Some Recent Results on The Linear Complementarity Problem. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1998, 19, 898-905.	0.7	8
148	Synthesis of 6-Fluoro-7-cyclic Amino-substituted Dicarboxylic Acid Quinolones and their Antibacterial Activity. <i>Journal of Heterocyclic Chemistry</i> , 2014, 51, E114.	1.4	8
149	Quantifying the effect of microstructure variability on the yield strength predictions of Ni-base superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 685, 178-186.	2.6	8
150	In situ $Y_{2}Si_{2}O_{7}$ coatings on SiC fibers: Thermodynamic analysis and processing. <i>Journal of the American Ceramic Society</i> , 2019, 102, 167-177.	1.9	8
151	On weakly completely mixed bimatrix games. <i>Linear Algebra and Its Applications</i> , 1990, 141, 61-74.	0.4	7
152	Polynomial maps and a conjecture of Samuelson. <i>Linear Algebra and Its Applications</i> , 1992, 177, 191-195.	0.4	7
153	Fracture toughness of single crystal YAG. <i>Scripta Metallurgica Et Materialia</i> , 1993, 28, 1383-1385.	1.0	7
154	Anisotropy in room temperature microhardness and indentation fracture of xenotime. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 454-455, 227-238.	2.6	7
155	On the P_{2} and P_{2} overflow="scroll">P_{2} and P_{2} overflow="scroll">P_{2} Linear Algebra and Its Applications, 2010, 432, 134-143.	0.4	7
156	Development of ceramic fibers for high-energy laser applications. <i>Proceedings of SPIE</i> , 2011, , .	0.8	7
157	Processing, Characterization, and Modeling of Room-Temperature-Vulcanized Silicone-Derived Ceramic Foams. <i>Journal of the American Ceramic Society</i> , 2014, 97, 733-741.	1.9	7
158	Development of a microstructure-sensitive design tool for high temperature strain rate sensitive flow stress of IN100 Ni-base superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 661, 247-253.	2.6	7
159	High-Temperature Deformation of SiC-Whisker-Reinforced MgO-PSZ/Mullite Composites. <i>Journal of the American Ceramic Society</i> , 1996, 79, 475-483.	1.9	6
160	Constructive characterization of Lipschitzian Q0-matrices. <i>Linear Algebra and Its Applications</i> , 1997, 252, 323-337.	0.4	6
161	On the Lipschitz Continuity of the Solution Map in Semidefinite Linear Complementarity Problems. <i>Mathematics of Operations Research</i> , 2005, 30, 462-471.	0.8	6
162	Oxidation response of a SiCf/SiC CMC with a HfB ₂ -based coating in an arc jet test. <i>Advances in Applied Ceramics</i> , 2018, 117, s19-s25.	0.6	6

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