Ta Parthasarathy

List of Publications by Year in Descending Order

214 papers	7,043 citations	43 h-index	76 g-index
224 ext. papers	7,724 ext. citations	3.5 avg, IF	5.86 L-index

#	Paper	IF	Citations
214	Stochastic Games and Related Concepts **2020**,		1
213	Response surface for screw dislocation: Twin boundary interactions in FCC metals. *Acta Materialia*, **2020**, 195, 681-689	8.4	1
212	Chemical short range order strengthening in a model FCC high entropy alloy. *Acta Materialia*, **2020**, 190, 29-42	8.4	59
211	Predicting the effects of microstructure on matrix crack initiation in fiber reinforced ceramic matrix composites via machine learning. *Composite Structures*, **2020**, 236, 111702	5.3	14
210	In situ Y2Si2O7 coatings on Hi-Nicalon-S SiC fibers: Phase formation and fiber strength. *Journal of the American Ceramic Society*, **2019**, 102, 5725-5737	3.8	4
209	Solution hardening in body-centered cubic quaternary alloys interpreted using Suzuki's kink-solute interaction model. *Scripta Materialia*, **2019**, 165, 103-106	5.6	38
208	Modeling solution hardening in BCC refractory complex concentrated alloys: NbTiZr, Nb1.5TiZr0.5 and Nb0.5TiZr1.5. *Acta Materialia*, **2019**, 168, 222-236	8.4	60
207	In situ Y2Si2O7 coatings on SiC fibers: Thermodynamic analysis and processing. *Journal of the American Ceramic Society*, **2019**, 102, 167-177	3.8	4
206	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	5.6	9
205	A molecular dynamics technique for determining energy landscapes as a dislocation percolates through a field of solutes. *Acta Materialia*, **2019**, 166, 658-676	8.4	16
204	Use of interphase in geopolymer matrix composites for improved toughness. *Ceramics International* , **2019**, 45, 5139-5149	5.1	3
203	Large-scale dislocation dynamics simulations of strain hardening of Ni microcrystals under tensile loading. *Acta Materialia*, **2019**, 164, 171-183	8.4	15
202	Process modeling of the low-temperature evolution and yield of polycarbosilanes for ceramic matrix composites. *Journal of the American Ceramic Society*, **2018**, 101, 2809-2818	3.8	11
201	A microstructure-sensitive location-specific design tool for predicting the yield and creep behavior of LSHR Ni-base superalloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 712, 502-512	5.3	
200	Modeling environmentally induced property degradation of SiC/BN/SiC ceramic matrix composites. *Journal of the American Ceramic Society*, **2018**, 101, 973-997	3.8	42
199	Evaluation of SiC/SiC minicomposites with yttrium disilicate fiber coating. *Journal of the American Ceramic Society*, **2018**, 101, 91-102	3.8	13
198	Oxidation response of a SiCf/SiC CMC with a HfB2-based coating in an arc jet test. *Advances in Applied Ceramics*, **2018**, 117, s19-s25	2.3	4

197	5.6 Mechanical Behavior of Non-Oxide Fiber-Reinforced CMCs at Elevated Temperature: Environmental Effects **2018**, 158-173		
196	Quantifying the effect of microstructure variability on the yield strength predictions of Ni-base superalloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 685, 178-186	5.3	6
195	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	5.3	13
194	Atomistic simulations of dislocation behavior in a model FCC multicomponent concentrated solid solution alloy. *Acta Materialia*, **2017**, 134, 188-194	8.4	67
193	Some aspects of flow control over a NACA0015 airfoil using synthetic jets. *Journal of Physics: Conference Series*, **2017**, 822, 012009	0.3	1
192	The strength and dislocation microstructure evolution in superalloy microcrystals. *Journal of the Mechanics and Physics of Solids*, **2017**, 99, 146-162	5	30
191	Atomistic simulations of dislocations in a model BCC multicomponent concentrated solid solution alloy. *Acta Materialia*, **2017**, 125, 311-320	8.4	102
190	Stationary, completely mixed and symmetric optimal and equilibrium strategies in stochastic games. *International Journal of Game Theory*, **2017**, 46, 761-782	0.5	1
189	Lasing of surface-polished polycrystalline Ho: YAG (yttrium aluminum garnet) fiber. *Optics Express*, **2017**, 25, 6725-6731	3.3	10
188	Modeling Environmental Degradation of SiC-Based Fibers. *Journal of the American Ceramic Society*, **2016**, 99, 1725-1734	3.8	22
187	Development of a microstructure-sensitive design tool for high temperature strain rate sensitive flow stress of IN100 Ni-base superalloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 661, 247-253	5.3	6
186	Failure of Ceramic Composites **2016**,		
185	Processing and Testing of RE2Si2O7 Fiber–Matrix Interphases for SiC–SiC Composites. *Journal of the American Ceramic Society*, **2016**, 99, 415-423	3.8	15
184	The creative genius: John Nash **2016**, 21, 769-772		
183	Synthesis, characterization and molecular docking studies of novel 2-amino 3-cyano pyrano[2,3H]chrysin derivatives as potential antimicrobial agents. *Medicinal Chemistry Research*, **2015**, 24, 3696-3709	2.2	9
182	Thermo-chemical compatibility of hafnium diboride with yttrium aluminum garnet at 1500 °C in air. *Journal of the European Ceramic Society*, **2015**, 35, 2437-2444	6	2
181	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	8.4	21
180	Synthesis of 6-Fluoro-7-cyclic Amino-substituted Dicarboxylic Acid Quinolones and their Antibacterial Activity. *Journal of Heterocyclic Chemistry*, **2014**, 51, E114-E122	1.9	7

179	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	6	35
178	Modeling and Evaluating the Environmental Degradation of UHTCs under Hypersonic Flow **2014**, 267-290		1
177	Processing, Characterization, and Modeling of Room-Temperature-Vulcanized Silicone-Derived Ceramic Foams. *Journal of the American Ceramic Society*, **2014**, 97, 733-741	3.8	5
176	Separating Test Artifacts from Material Behavior in the Oxidation Studies of HfB2□SiC at 2000□C and Above. *International Journal of Applied Ceramic Technology*, **2013**, 10, 293-300	2	14
175	Spontaneous athermal cross-slip nucleation at screw dislocation intersections in FCC metals and L12 intermetallics investigated via atomistic simulations. *Philosophical Magazine*, **2013**, 93, 3012-3028	1.6	18
174	Atomistic simulations of surface cross-slip nucleation in face-centered cubic nickel and copper. *Acta Materialia*, **2013**, 61, 2500-2508	8.4	24
173	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	3.8	58
172	Transformation Plasticity in (GdxDy1□)PO4 Fiber Coatings During Fiber Push Out. *Journal of the American Ceramic Society*, **2013**, 96, 1586-1595	3.8	15
171	SOLVING STRONGLY MONOTONE LINEAR COMPLEMENTARITY PROBLEMS. *International Game Theory Review*, **2013**, 15, 1340035	0.2	2
170	ON FULLY SEMIMONOTONE MATRICES. *International Game Theory Review*, **2013**, 15, 1340036	0.2	2
169	A crystal-plasticity finite element method study on effect of abnormally large grain on mesoscopic plasticity of polycrystal. *Scripta Materialia*, **2012**, 66, 56-59	5.6	5
168	Atomistic simulations of intersection cross-slip nucleation in L12 Ni3Al. *Scripta Materialia*, **2012**, 66, 410-413	3.63	15
167	GdCl3 promoted synthesis of novel pyrimidine fused indazole derivatives and their anticancer activity. *Medicinal Chemistry Research*, **2012**, 21, 4261-4273	2.2	13
166	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	5.3	12
165	Constitutive Model for Anisotropic Creep Behaviors of Single-Crystal Ni-Base Superalloys in the Low-Temperature, High-Stress Regime. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 1861-1869	2.3	7
164	Modeling Oxidation Kinetics of SiC-Containing Refractory Diborides. *Journal of the American Ceramic Society*, **2012**, 95, 338-349	3.8	74
163	On the Escaig obstacle hypothesis for cross-slip in face-centered-cubic materials. *Philosophical Magazine Letters*, **2011**, 91, 452-457	1	4
162	Physics of Failure **2011**, 199-217		2

161	Development of a Test to Evaluate Aerothermal Response of Materials to Hypersonic Flow Using a Scramjet Wind Tunnel. *International Journal of Applied Ceramic Technology*, **2011**, 8, 832-847	2	11
160	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	3.8	62
159	Life prediction under tension of titanium alloys that develop an oxygenated brittle case during use. *Scripta Materialia*, **2011**, 65, 420-423	5.6	34
158	Calculations of intersection cross-slip activation energies in fcc metals using nudged elastic band method. *Acta Materialia*, **2011**, 59, 7135-7144	8.4	42
157	Development of ceramic fibers for high-energy laser applications **2011**,		5
156	Recent developments in polycrystalline oxide fiber laser materials: production of Yb-doped polycrystalline YAG fiber **2011**,		1
155	Predicted performance limits of yttrium aluminum garnet fiber lasers. *Optical Engineering*, **2010**, 49, 094302	1.1	35
154	An Introduction to Failure Mechanisms and Ultrasonic Inspection **2010**, 1-42		5
153	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	8.4	41
152	Orderfield property of mixtures of stochastic games. *Sankhya A*, **2010**, 72, 246-275	0.6	3
151	On the P2? and P2-properties in the semidefinite linear complementarity problem. *Linear Algebra and Its Applications*, **2010**, 432, 134-143	0.9	7
150	On strong Z-matrices. *Linear Algebra and Its Applications*, **2010**, 432, 964-969	0.9	2
149	Effects of Phase Change and Oxygen Permeability in Oxide Scales on Oxidation Kinetics of ZrB2 and HfB2. *Journal of the American Ceramic Society*, **2009**, 92, 1079-1086	3.8	38
148	Oxidation Behavior of Zirconium Diboride Silicon Carbide Produced by the Spark Plasma Sintering Method. *Journal of the American Ceramic Society*, **2009**, 92, 2046-2052	3.8	70
147	Design, synthesis, structure-activity relationship and antibacterial activity series of novel imidazo fused quinolone carboxamides. *European Journal of Medicinal Chemistry*, **2009**, 44, 1570-8	6.8	26
146	Tailorable thermal expansion hybrid structures. *International Journal of Solids and Structures*, **2009**, 46, 2372-2387	3.1	83
145	Atomistic simulations of cross-slip nucleation at screw dislocation intersections in face-centered cubic nickel. *Philosophical Magazine*, **2009**, 89, 3351-3369	1.6	27
144	Communication complexity of stochastic games **2009**,		1

143	A Model for Transitions in Oxidation Regimes of ZrB2. *Materials Science Forum*, **2008**, 595-598, 823-832	0.4	21
142	Thermal history sensor based on glass-ceramics. *Sensors and Actuators A: Physical*, **2008**, 141, 245-255	3.9	8
141	Athermal mechanisms of size-dependent crystal flow gleaned from three-dimensional discrete dislocation simulations. *Acta Materialia*, **2008**, 56, 3245-3259	8.4	254
140	A model for the oxidation of ZrB2, HfB2 and TiB2. *Acta Materialia*, **2007**, 55, 5999-6010	8.4	246
139	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, 3445-53	2.9	55
138	Analysis of ceramics toughened by non-conventional fiber reinforcement. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 443, 120-131	5.3	12
137	Analytical evaluation of hybrid ceramic design concepts for optimized structural performance. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2007**, 459, 60-68	5.3	7
136	Anisotropy in room temperature microhardness and indentation fracture of xenotime. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 454-455, 227-238	5.3	6
135	Contribution to size effect of yield strength from the stochastics of dislocation source lengths in finite samples. *Scripta Materialia*, **2007**, 56, 313-316	5.6	403
134	Numerical study on microcompression tests of anisotropic single crystals. *Scripta Materialia*, **2007**, 57, 849-852	5.6	36
133	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	2	56
132	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	1.6	22
131	Discrete dislocation simulations of precipitation hardening in inverse superalloys. *Philosophical Magazine Letters*, **2006**, 86, 215-225	1	19
130	Oxide Fiber-Coatings for Interface Control in Ceramic Composites **2006**, 127-135		
129	Toughening of SiC with Ti3SiC2 Particles. *Journal of the American Ceramic Society*, **2006**, 89, 633-637	3.8	14
128	Combined Effect of Salt Water and High-Temperature Exposure on the Strength Retention of Nextel™720 Fibers and Nextel™720-Aluminosilicate Composites. *Journal of the American Ceramic Society*, **2006**, 89, 1373-1379	3.8	1
127	Monazite Coatings on SiC Fibers I: Fiber Strength and Thermal Stability. *Journal of the American Ceramic Society*, **2006**, 89, 3475-3480	3.8	34
126	QSAR studies of N(1)-(5-chloro-2-pyridyl)-2-{[4-(alkyl methyl)benzoyl]amino}-5-chlorobenzamide analogs. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 319-25	3.4	9

125	Zirconia□Silica□Carbon Coatings on Ceramic Fibers. *Journal of the American Ceramic Society*, **2005**, 87, 1967-1976	3.8	16
124	Numerical study of the flow responses and the geometric constraint effects in Ni-base two-phase single crystals using strain gradient plasticity. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 397, 69-83	5.3	17
123	A crystallographic constitutive model for Ni3Al (L12) intermetallics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 400-401, 256-259	5.3	13
122	QSAR studies--potent benzodiazepine gamma-secretase inhibitors. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 1873-8	3.4	14
121	Size-affected single-slip behavior of pure nickel microcrystals. *Acta Materialia*, **2005**, 53, 4065-4077	8.4	526
120	Predicted Effects of Interfacial Roughness on the Behavior of Selected Ceramic Composites. *Journal of the American Ceramic Society*, **2005**, 80, 2043-2055	3.8	35
119	Effects of Temperature, Environment, and Orientation on the Fracture Toughness of Single-Crystal YAG. *Journal of the American Ceramic Society*, **2005**, 80, 2730-2734	3.8	8
118	Interface Properties in High-Strength Nicalon/C/SiC Composites, As Determined by Rough Surface Analysis of Fiber Push-Out Tests. *Journal of the American Ceramic Society*, **2005**, 81, 1881-1887	3.8	19
117	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*, **2005**, 81, 1812-1818	3.8	21
116	Evaluation of Oxide□Oxide Composites in a Novel Combustor Wall Application. *International Journal of Applied Ceramic Technology*, **2005**, 2, 122-132	2	22
115	On the Lipschitz Continuity of the Solution Map in Semidefinite Linear Complementarity Problems. *Mathematics of Operations Research*, **2005**, 30, 462-471	1.5	6
114	Tension-Compression Asymmetry in Plasticity Modeling of a Single Crystal Superalloy Using a "Unit Cell" Approach. *Materials Science Forum*, **2005**, 475-479, 3295-3298	0.4	0
113	Effective Fiber Properties to Incorporate Coating Thermoelastic Effects in Fiber/Matrix Composite Models. *Journal of the American Ceramic Society*, **2004**, 82, 579-584	3.8	10
112	Fabrication and Testing of Oxide/Oxide Microcomposites with Monazite and Hibonite as Interlayers. *Journal of the American Ceramic Society*, **2004**, 82, 3575-3583	3.8	30
111	Fugitive Interfacial Carbon Coatings for Oxide/Oxide Composites. *Journal of the American Ceramic Society*, **2004**, 83, 329-336	3.8	36
110	Processing, Microstructure, and Strength of Alumina□YAG Eutectic Polycrystals. *Journal of the American Ceramic Society*, **2004**, 83, 2088-2090	3.8	15
109	Evaluation of Porous ZrO2-SiO2 and Monazite Coatings Using NextelTM 720-Fiber-Reinforced Blackglas□Minicomposites. *Journal of the American Ceramic Society*, **2004**, 84, 1526-1532	3.8	28
108	Characterization of Oxidized Polymer-Derived SiBCN Fibers. *Journal of the American Ceramic Society*, **2004**, 84, 2197-2202	3.8	50

107	Interface Design for Oxidation-Resistant Ceramic Composites. *Journal of the American Ceramic Society*, **2004**, 85, 2599-2632	3.8	227
106	Porous Yttrium Aluminum Garnet Fiber Coatings for Oxide Composites. *Journal of the American Ceramic Society*, **2004**, 85, 2703-2710	3.8	19
105	Reduction of Thermal-Gradient-Induced Stresses in Composites Using Mixed Fibers. *Journal of the American Ceramic Society*, **2004**, 87, 617-625	3.8	5
104	QSAR studies of 2-substituted 2,3-dihydro-1h-naphtho[1,8-de]-1,3,2-diazaphosphorine 2-oxides and sulphides. *Open Chemistry*, **2004**, 2, 696-702	1.6	2
103	Anisotropy in room temperature microhardness and fracture of CaWo4 scheelite. *Acta Materialia*, **2004**, 52, 5529-5537	8.4	30
102	Microstructural Effects and Kinetics of High Temperature Oxidation in NB-Si Base Alloys **2004**, 315-326		2
101	Refractory Metal/Silicide Multiphase Systems for High Temperature Structural Applications **2004**, 309-314		
100	A Fast Spreadsheet Model for the Yield Strength of Superalloys **2004**,		23
99	Failure of Ceramic Composites **2003**, 455-475		1
98	Effectiveness of Monazite Coatings in Oxide/Oxide Composites after Long-Term Exposure at High Temperature. *Journal of the American Ceramic Society*, **2003**, 86, 325-332	3.8	91
97	Oxidation mechanisms in Mo-reinforced Mo5SiB2(T2)Mo3Si alloys. *Acta Materialia*, **2002**, 50, 1857-1868	8.4	179
96	Relationship Between Strong Monotonicity Property,P2-Property, and the Gus-Property in Semidefinite Linear Complementarity Problems. *Mathematics of Operations Research*, **2002**, 27, 326-331	1.5	14
95	Oxidation behavior of MoMo3SiMo5SiB2 (T2) three phase system. *Intermetallics*, **2002**, 10, 225-232	3.5	115
94	Extraction of Weibull Parameters of Fiber Strength from Means and Standard Deviations of Failure Loads and Fiber Diameters. *Journal of the American Ceramic Society*, **2001**, 84, 588-592	3.8	17
93	PIVOTING ALGORITHMS FOR SOME CLASSES OF STOCHASTIC GAMES: A SURVEY. *International Game Theory Review*, **2001**, 03, 253-281	0.2	22
92	Stability and Largeness of the Core. *Games and Economic Behavior*, **2001**, 34, 227-237	1.1	11
91	Design-tool representations of strain compatibility and stress-strain relationships for lamellar gamma titanium aluminides. *Intermetallics*, **2001**, 9, 875-882	3.5	12
90	On the Connectedness of Solution Sets of Parametrized Equations and of Solution Sets in Linear Complementarity Problems. *Applied Optimization*, **2001**, 165-177		1

89	Complementarity forms of theorems of Lyapunov and Stein, and related results. *Linear Algebra and Its Applications*, **2000**, 320, 131-144	0.9	35
88	Phenomenological observations of lamellar orientation effects on the creep behavior of Ti–48at.%Al PST crystals. *Acta Materialia*, **2000**, 48, 541-551	8.4	39
87	Modeling the Ultimate Tensile Strength of Unidirectional Glass-Matrix Composites. *Journal of the American Ceramic Society*, **2000**, 83, 166-174	3.8	36
86	Stability and largeness of core for symmetric games. *International Journal of Game Theory*, **2000**, 29, 11-22	0.5	9
85	On the Solution Sets of Linear Complementarity Problems. *SIAM Journal on Matrix Analysis and Applications*, **2000**, 21, 1229-1235	1.5	5
84	Influence of ceramic-matrix-composite wall plates on combustor performance **2000**,		3
83	The Linear Complementarity Problem in Static and Dynamic Games **2000**, 289-301		1
82	On Linear Complementarity and A Discounted Polystochastic Game **1999**, 377-380		1
81	Vertical linear complementarity and discounted zero-sum stochastic games with ARAT structure. *Mathematical Programming*, **1999**, 86, 637-648	2.1	11
80	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		84
79	Structural ceramic composites. *Current Opinion in Solid State and Materials Science*, **1999**, 4, 445-451	12	18
78	Crack deflection in ceramic composites and fiber coating design criteria. *Composites Part A: Applied Science and Manufacturing*, **1999**, 30, 521-524	8.4	60
77	Large Cores and Exactness. *Games and Economic Behavior*, **1999**, 28, 1-12	1.1	41
76	The Effect of Lamellar Lath Spacing on the Creep Behavior of Ti-47at% Al. *Scripta Materialia*, **1998**, 38, 1025-1031	5.6	48
75	Fully copositive matrices. *Mathematical Programming*, **1998**, 82, 401-411	2.1	11
74	The role of grain size and selected microstructural parameters in strengthening fully lamellar TiAl alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1998**, 29, 37-47	2.3	110
73	Flow behavior of PST and fully lamellar polycrystals of Ti–48Al in the microstrain regime. *Acta Materialia*, **1998**, 46, 4005-4016	8.4	29
72	Criteria for crack deflection/penetration criteria for fiber-reinforced ceramic matrix composites. *Composites Science and Technology*, **1998**, 58, 1775-1784	8.6	66

71	Some Recent Results on The Linear Complementarity Problem. *SIAM Journal on Matrix Analysis and Applications*, **1998**, 19, 898-905	1.5	7
70	Green's function boundary conditions in two-dimensional and three-dimensional atomistic simulations of dislocations. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1998**, 77, 231-256		93
69	Fiber Coating Design Parameters for Ceramic Composites as Implied by Considerations of Debond Crack Roughness **1998**, 695-703		1
68	Observations on the creep behavior of fully-lamellar polycrystalline TiAl: Identification of critical effects. *Scripta Materialia*, **1997**, 37, 315-321	5.6	78
67	Constructive characterization of Lipschitzian Q0-matrices. *Linear Algebra and Its Applications*, **1997**, 252, 323-337	0.9	6
66	On Lipschitzian Q0 and INS matrices. *Linear Algebra and Its Applications*, **1997**, 263, 193-199	0.9	4
65	Completely Mixed Games And Real Jacobian Conjecture. *Theory and Decision Library Series C, Game Theory, Mathematical Programming and Operations Research*, **1997**, 17-23		
64	Linear Complementarity and the Irreducible Polystochastic Game with the Average Cost Criterion When One Player Controls Transitions. *Theory and Decision Library Series C, Game Theory, Mathematical Programming and Operations Research*, **1997**, 153-170		2
63	LipschitzianQ-matrices areP-matrices. *Mathematical Programming*, **1996**, 74, 55-58	2.1	13
62	Atomistic simulations of the structure and stability of □PV□locks in an L12 compound. *Acta Materialia*, **1996**, 44, 2237-2247	8.4	21
61	Effect of yttria concentration on low strain rate flow stress of cubic zirconia single crystals. *Acta Materialia*, **1996**, 44, 4663-4676	8.4	11
60	High-Temperature Deformation of SiC-Whisker-Reinforced MgO-PSZ/Mullite Composites. *Journal of the American Ceramic Society*, **1996**, 79, 475-483	3.8	6
59	Debond Crack Roughness, Interface Properties and Fiber Coating Design in Ceramic Composites. *Key Engineering Materials*, **1996**, 127-131, 51-62	0.4	2
58	On co-positive, semi-monotoneQ-matrices. *Mathematical Programming*, **1995**, 68, 187-203	2.1	6
57	Oxidation Kinetics of a Continuous Carbon Phase in a Nonreactive Matrix. *Journal of the American Ceramic Society*, **1995**, 78, 972-980	3.8	69
56	Microstructural Stability of Nicalon at 1000deg;C in Air after Exposure to Salt (NaCl) Water. *Journal of the American Ceramic Society*, **1995**, 78, 1992-1996	3.8	15
55	Implications from pre-straining experiments on emerging kink-based models for anomalous flow in L12 alloys. *Philosophical Magazine Letters*, **1995**, 71, 21-31	1	18
54	Compressive creep behavior of Nb5Si3. *Scripta Metallurgica Et Materialia*, **1995**, 32, 1227-1232		60

53	Some Properties of Fully Semimonotone, $Q_0 $-Matrices. *SIAM Journal on Matrix Analysis and Applications*, **1995**, 16, 1268-1286	1.5	24
52	Issues in the control of fiber/matrix interfaces in ceramic composites. *Composites Science and Technology*, **1994**, 51, 291-296	8.6	27
51	Effect of Interfacial Roughness Parameters on the Fiber Pushout Behavior of a Model Composite. *Journal of the American Ceramic Society*, **1994**, 77, 3232-3236	3.8	35
50	Analysis of the effect of interfacial roughness on fiber debonding and sliding in brittle matrix composites. *Acta Metallurgica Et Materialia*, **1994**, 42, 3773-3784		81
49	The Linear Complementarity Problem with Exact Order Matrices. *Mathematics of Operations Research*, **1994**, 19, 618-644	1.5	11
48	Fracture toughness of single crystal YAG. *Scripta Metallurgica Et Materialia*, **1993**, 28, 1383-1385		7
47	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		52
46	Deformation Behavior of an Al2O3-Y3Al5O12 Eutectic Composite in Comparison with Sapphire and YAG. *Journal of the American Ceramic Society*, **1993**, 76, 29-32	3.8	97
45	A copositive Q-matrix which is notR 0. *Mathematical Programming*, **1993**, 61, 131-135	2.1	10
44	Molecular Statics Simulations of the Motion of a Single Kink in NiAl. *Materials Research Society Symposia Proceedings*, **1992**, 288, 311		4
43	Elevated temperature deformation of a fine-grained Y3Al5O12 + YAlO3 (20 vol. %) material. *Scripta Metallurgica Et Materialia*, **1992**, 26, 1649-1653		5
42	Creep Mechanism of Polycrystalline Yttrium Aluminum Garnet. *Journal of the American Ceramic Society*, **1992**, 75, 1756-1759	3.8	98
41	Polynomial maps and a conjecture of Samuelson. *Linear Algebra and Its Applications*, **1992**, 177, 191-195	0.9	5
40	Effect of Interfacial Roughness on the Frictional Stress Measured Using Pushout Tests. *Journal of the American Ceramic Society*, **1991**, 74, 2793-2801	3.8	143
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