

Subra Suresh

List of Publications by Year in descending order

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290
papers

43,897
citations

1799

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299
all docs

299
docs citations

299
times ranked

26827
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyses of internal structures and defects in materials using physics-informed neural networks. Science Advances, 2022, 8, eabk0644.	10.3	80
2	Recyclable and Reusable Natural Plant-Based Paper for Repeated Digital Printing and Unprinting. Advanced Materials, 2022, 34, e2109367.	21.0	7
3	Assessing hypoxic damage to placental trophoblasts by measuring membrane viscosity of extracellular vesicles. Placenta, 2022, 121, 14-22.	1.5	2
4	Plant-Based Substrate Materials for Flexible Green Electronics. Advanced Materials Technologies, 2022, 7, .	5.8	5
5	Artificial intelligence velocimetry and microaneurysm-on-a-chip for three-dimensional analysis of blood flow in physiology and disease. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	50
6	Machine learning for deep elastic strain engineering of semiconductor electronic band structure and effective mass. Npj Computational Materials, 2021, 7, .	8.7	17
7	Direct isolation of circulating extracellular vesicles from blood for vascular risk profiling in type 2 diabetes mellitus. Lab on A Chip, 2021, 21, 2511-2523.	6.0	33
8	Digital printing of shape-morphing natural materials. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
9	Metallization of diamond. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24634-24639.	7.1	29
10	Transformation of hard pollen into soft matter. Nature Communications, 2020, 11, 1449.	12.8	58
11	Extraction of mechanical properties of materials through deep learning from instrumented indentation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7052-7062.	7.1	178
12	Actuation and locomotion driven by moisture in paper made with natural pollen. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8711-8718.	7.1	68
13	Mechanical fatigue of human red blood cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19828-19834.	7.1	44
14	Deep elastic strain engineering of bandgap through machine learning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4117-4122.	7.1	70
15	Improved fatigue resistance of gradient nanograined Cu. Acta Materialia, 2019, 166, 56-66.	7.9	87
16	Ultralarge elastic deformation of nanoscale diamond. Science, 2018, 360, 300-302.	12.6	208
17	Controlled molecular self-assembly of complex three-dimensional structures in soft materials. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 70-74.	7.1	23
18	Differential growth and shape formation in plant organs. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12359-12364.	7.1	68

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19	Mechanics of diseased red blood cells in human spleen and consequences for hereditary blood disorders. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9574-9579.	7.1	93
20	Simultaneous polymerization and adhesion under hypoxia in sickle cell disease. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9473-9478.	7.1	55
21	Circulating Tumor Cell Phenotyping via High-Throughput Acoustic Separation. Small, 2018, 14, e1801131.	10.0	115
22	Formation and size distribution of self-assembled vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2910-2915.	7.1	113
23	Sliding of coherent twin boundaries. Nature Communications, 2017, 8, 1108.	12.8	44
24	Isolation of exosomes from whole blood by integrating acoustics and microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10584-10589.	7.1	633
25	Patient-specific modeling of individual sickle cell behavior under transient hypoxia. PLoS Computational Biology, 2017, 13, e1005426.	3.2	24
26	Cellular normoxic biophysical markers of hydroxyurea treatment in sickle cell disease. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9527-9532.	7.1	36
27	Biomechanics of red blood cells in human spleen and consequences for physiology and disease. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7804-7809.	7.1	193
28	Three-dimensional manipulation of single cells using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1522-1527.	7.1	448
29	Patient-specific blood rheology in sickle-cell anaemia. Interface Focus, 2016, 6, 20150065.	3.0	47
30	De Novo Generated Human Red Blood Cells in Humanized Mice Support Plasmodium falciparum Infection. PLoS ONE, 2015, 10, e0129825.	2.5	27
31	Kinetics of sickle cell biorheology and implications for painful vasoocclusive crisis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1422-1427.	7.1	99
32	Multiple stiffening effects of nanoscale knobs on human red blood cells infected with Plasmodium falciparum malaria parasite. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6068-6073.	7.1	108
33	Acoustic separation of circulating tumor cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4970-4975.	7.1	632
34	Cyclic deformation leads to defect healing and strengthening of small-volume metal crystals. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13502-13507.	7.1	40
35	Human natural killer cells control Plasmodium falciparum infection by eliminating infected red blood cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1479-1484.	7.1	67
36	Quantitative biomechanics of healthy and diseased human red blood cells using dielectrophoresis in a microfluidic system. Extreme Mechanics Letters, 2014, 1, 35-41.	4.1	88

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37	Analysis of size-dependent slip transfer and inter-twin flow stress in a nanotwinned fcc metal. <i>Acta Materialia</i> , 2014, 67, 409-417.	7.9	25
38	Computational Biorheology of Human Blood Flow in Health and Disease. <i>Annals of Biomedical Engineering</i> , 2014, 42, 368-387.	2.5	73
39	Cell separation using tilted-angle standing surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12992-12997.	7.1	390
40	Small Molecule Targeting Malaria Merozoite Surface Protein-1 (MSP-1) Prevents Host Invasion of Divergent Plasmodial Species. <i>Journal of Infectious Diseases</i> , 2014, 210, 1616-1626.	4.0	36
41	Electric impedance microflow cytometry for characterization of cell disease states. <i>Lab on A Chip</i> , 2013, 13, 3903.	6.0	84
42	Real-time, high-resolution study of nanocrystallization and fatigue cracking in a cyclically strained metallic glass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19725-19730.	7.1	61
43	Cytoadherence of erythrocytes invaded by <i>Plasmodium falciparum</i> : Quantitative contact-probing of a human malaria receptor. <i>Acta Biomaterialia</i> , 2013, 9, 6349-6359.	8.3	27
44	Lipid bilayer and cytoskeletal interactions in a red blood cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13356-13361.	7.1	155
45	Anisotropic light scattering of individual sickle red blood cells. <i>Journal of Biomedical Optics</i> , 2012, 17, 040501.	2.6	43
46	Pf155/RESA protein influences the dynamic microcirculatory behavior of ring-stage <i>Plasmodium falciparum</i> infected red blood cells. <i>Scientific Reports</i> , 2012, 2, 614.	3.3	61
47	Aluminium-Titanium Diboride (Al-TiB ₂) Metal Matrix Composites: Challenges and Opportunities. <i>Procedia Engineering</i> , 2012, 38, 89-97.	1.2	102
48	Global challenges need global solutions. <i>Nature</i> , 2012, 490, 337-338.	27.8	35
49	Optical measurement of biomechanical properties of individual erythrocytes from a sickle cell patient. <i>Acta Biomaterialia</i> , 2012, 8, 4130-4138.	8.3	112
50	Cultivating Global Science. <i>Science</i> , 2012, 336, 959-959.	12.6	10
51	Repeated frictional sliding properties of copper containing nanoscale twins. <i>Scripta Materialia</i> , 2012, 66, 849-853.	5.2	19
52	Host cell deformability is linked to transmission in the human malaria parasite <i>Plasmodium falciparum</i> . <i>Cellular Microbiology</i> , 2012, 14, 983-993.	2.1	102
53	A microfabricated deformability-based flow cytometer with application to malaria. <i>Lab on A Chip</i> , 2011, 11, 1065.	6.0	223
54	A unified mechanistic model for size-dependent deformation in nanocrystalline and nanotwinned metals. <i>Acta Materialia</i> , 2011, 59, 6861-6868.	7.9	70

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55	Deformation, structural changes and damage evolution in nanotwinned copper under repeated frictional contact sliding. <i>Acta Materialia</i> , 2011, 59, 7311-7324.	7.9	44
56	Dynamic mechanical response of brain tissue in indentation in vivo, in situ and in vitro. <i>Acta Biomaterialia</i> , 2011, 7, 4090-4101.	8.3	107
57	Combined Simulation and Experimental Study of Large Deformation of Red Blood Cells in Microfluidic Systems. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1041-1050.	2.5	88
58	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , 2011, 59, 2437-2446.	7.9	158
59	Biomechanics of single cortical neurons. <i>Acta Biomaterialia</i> , 2011, 7, 1210-1219.	8.3	68
60	Subra suresh discusses strategies to "Sustain the U.S. Innovation Engine". <i>Jom</i> , 2011, 63, 13-16.	1.9	0
61	Biomechanics of brain tissue. <i>Acta Biomaterialia</i> , 2011, 7, 83-95.	8.3	160
62	Quantifying the biophysical characteristics of <i>Plasmodium-falciparum</i> -parasitized red blood cells in microcirculation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 35-39.	7.1	165
63	Measuring single-cell density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10992-10996.	7.1	287
64	Moving Toward Global Science. <i>Science</i> , 2011, 333, 802-802.	12.6	44
65	Multiscale Modeling of Red Blood Cell Mechanics and Blood Flow in Malaria. <i>PLoS Computational Biology</i> , 2011, 7, e1002270.	3.2	98
66	Biophysics of Malarial Parasite Exit from Infected Erythrocytes. <i>PLoS ONE</i> , 2011, 6, e20869.	2.5	84
67	A new method for evaluating the plastic properties of materials through instrumented frictional sliding tests. <i>Acta Materialia</i> , 2010, 58, 6385-6392.	7.9	28
68	Shape and Biomechanical Characteristics of Human Red Blood Cells in Health and Disease. <i>MRS Bulletin</i> , 2010, 35, 382-388.	3.5	424
69	Static and dynamic light scattering of healthy and malaria-parasite invaded red blood cells. <i>Journal of Biomedical Optics</i> , 2010, 15, 020506.	2.6	85
70	Protection mechanisms of the iron-plated armor of a deep-sea hydrothermal vent gastropod. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 987-992.	7.1	201
71	Metabolic remodeling of the human red blood cell membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1289-1294.	7.1	358
72	Febrile temperature leads to significant stiffening of <i>Plasmodium falciparum</i> parasitized erythrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C59-C64.	4.6	33

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73	Size-Dependent Endocytosis of Nanoparticles. <i>Advanced Materials</i> , 2009, 21, 419-424.	21.0	895
74	Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper. <i>Acta Materialia</i> , 2009, 57, 5165-5173.	7.9	156
75	Steady-state frictional sliding contact on surfaces of plastically graded materials. <i>Acta Materialia</i> , 2009, 57, 511-524.	7.9	46
76	Strengthening Materials by Engineering Coherent Internal Boundaries at the Nanoscale. <i>Science</i> , 2009, 324, 349-352.	12.6	1,953
77	Mechanical Response of Rat Cortical Neurons: AFM Indentations and Preliminary Modeling. , 2009, , .		1
78	Computational Modeling of the Micropipette Aspiration of Malaria Infected Erythrocytes. <i>IFMBE Proceedings</i> , 2009, , 1788-1791.	0.3	2
79	Effects of mechanical properties and surface friction on elasto-plastic sliding contact. <i>Mechanics of Materials</i> , 2008, 40, 206-219.	3.2	84
80	Mechanics of indentation of plastically graded materials-II: Experiments on nanocrystalline alloys with grain size gradients. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 172-183.	4.8	69
81	Mechanics of indentation of plastically graded materials-I: Analysis. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 157-171.	4.8	78
82	Three-dimensional model of strength and ductility of polycrystalline copper containing nanoscale twins. <i>Acta Materialia</i> , 2008, 56, 4647-4657.	7.9	65
83	Deformation of the ultra-strong. <i>Nature</i> , 2008, 456, 716-717.	27.8	71
84	Refractive index maps and membrane dynamics of human red blood cells parasitized by <i>Plasmodium falciparum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13730-13735.	7.1	619
85	Cytoskeletal dynamics of human erythrocyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4937-4942.	7.1	234
86	Effect of plasmodial RESA protein on deformability of human red blood cells harboring <i>Plasmodium falciparum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9213-9217.	7.1	184
87	Viscoelasticity of the human red blood cell. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C597-C605.	4.6	187
88	Interfacial plasticity governs strain rate sensitivity and ductility in nanostructured metals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3031-3036.	7.1	522
89	The frictional sliding response of elasto-plastic materials in contact with a conical indenter. <i>International Journal of Solids and Structures</i> , 2007, 44, 1970-1989.	2.7	68
90	Biomechanics and biophysics of cancer cells. <i>Acta Materialia</i> , 2007, 55, 3989-4014.	7.9	393

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91	Nanoscale heterogeneity promotes energy dissipation in bone. <i>Nature Materials</i> , 2007, 6, 454-462.	27.5	362
92	Elastic clues in cancer detection. <i>Nature Nanotechnology</i> , 2007, 2, 748-749.	31.5	165
93	Biomechanics and biophysics of cancer cells†. <i>Acta Biomaterialia</i> , 2007, 3, 413-438.	8.3	957
94	Mechanical response of human red blood cells in health and disease: Some structure-property-function relationships. <i>Journal of Materials Research</i> , 2006, 21, 1871-1877.	2.6	155
95	Colloid model for atoms. <i>Nature Materials</i> , 2006, 5, 253-254.	27.5	32
96	Strength, strain-rate sensitivity and ductility of copper with nanoscale twins. <i>Acta Materialia</i> , 2006, 54, 5421-5432.	7.9	448
97	Molecularly based analysis of deformation of spectrin network and human erythrocyte. <i>Materials Science and Engineering C</i> , 2006, 26, 1232-1244.	7.3	190
98	Cyclic strain hardening of nanocrystalline nickel. <i>Scripta Materialia</i> , 2006, 54, 1151-1155.	5.2	69
99	Strain rate sensitivity of Cu with nanoscale twins. <i>Scripta Materialia</i> , 2006, 55, 319-322.	5.2	126
100	Fatigue behavior of nanocrystalline metals and alloys. <i>International Journal of Fatigue</i> , 2005, 27, 1147-1158.	5.7	241
101	Effects of grain refinement and strength on friction and damage evolution under repeated sliding contact in nanostructured metals. <i>International Journal of Fatigue</i> , 2005, 27, 1159-1163.	5.7	55
102	Nano-sized twins induce high rate sensitivity of flow stress in pure copper. <i>Acta Materialia</i> , 2005, 53, 2169-2179.	7.9	613
103	Mechanistic models for the activation volume and rate sensitivity in metals with nanocrystalline grains and nano-scale twins. <i>Acta Materialia</i> , 2005, 53, 3369-3382.	7.9	725
104	Connections between single-cell biomechanics and human disease states: gastrointestinal cancer and malaria. <i>Acta Biomaterialia</i> , 2005, 1, 15-30.	8.3	748
105	Shell buckling of individual multiwalled carbon nanotubes using nanoindentation. <i>Applied Physics Letters</i> , 2005, 87, 103109.	3.3	78
106	Spectrin-Level Modeling of the Cytoskeleton and Optical Tweezers Stretching of the Erythrocyte. <i>Biophysical Journal</i> , 2005, 88, 3707-3719.	0.5	376
107	Continuous force-displacement relationships for the human red blood cell at different erythrocytic developmental stages of <i>Plasmodium falciparum</i> malaria parasite. <i>Materials Research Society Symposia Proceedings</i> , 2004, 844, 1.	0.1	2
108	Elastic criterion for dislocation nucleation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 25-30.	5.6	52

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109	Predictive modeling of nanoindentation-induced homogeneous dislocation nucleation in copper. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 691-724.	4.8	227
110	Large deformation of living cells using laser traps. <i>Acta Materialia</i> , 2004, 52, 1837-1845.	7.9	159
111	Identification of crack location and depth in a cantilever beam using a modular neural network approach. <i>Smart Materials and Structures</i> , 2004, 13, 907-915.	3.5	60
112	Defect Nucleation. <i>Solid Mechanics and Its Applications</i> , 2004, , 203-211.	0.2	0
113	Nanoindentation of patterned metal lines on a Si substrate. <i>Scripta Materialia</i> , 2003, 48, 249-254.	5.2	40
114	Grain size effects on the fatigue response of nanocrystalline metals. <i>Scripta Materialia</i> , 2003, 49, 675-680.	5.2	301
115	Dynamic indentation for determining the strain rate sensitivity of metals. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 1923-1938.	4.8	48
116	Mechanics of the human red blood cell deformed by optical tweezers. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 2259-2280.	4.8	696
117	Measurement of full-field curvature and geometrical instability of thin film-substrate systems through CGS interferometry. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 2191-2211.	4.8	52
118	Mechanical behavior of nanocrystalline metals and alloys11The Golden Jubilee Issue“Selected topics in Materials Science and Engineering: Past, Present and Future, edited by S. Suresh. <i>Acta Materialia</i> , 2003, 51, 5743-5774.	7.9	1,746
119	The biomechanics toolbox: experimental approaches for living cells and biomolecules. <i>Acta Materialia</i> , 2003, 51, 5881-5905.	7.9	268
120	Deformation of electrodeposited nanocrystalline nickel. <i>Acta Materialia</i> , 2003, 51, 387-405.	7.9	696
121	Nanostructured Al-Fe alloys produced by e-beam deposition: static and dynamic tensile properties. <i>Acta Materialia</i> , 2003, 51, 4197-4208.	7.9	76
122	Some critical experiments on the strain-rate sensitivity of nanocrystalline nickel. <i>Acta Materialia</i> , 2003, 51, 5159-5172.	7.9	527
123	Cell and molecular mechanics of biological materials. <i>Nature Materials</i> , 2003, 2, 715-725.	27.5	914
124	Depth-sensing instrumented indentation with dual sharp indenters. <i>Acta Materialia</i> , 2003, 51, 3713-3729.	7.9	299
125	Model experiments for direct visualization of grain boundary deformation in nanocrystalline metals. <i>Applied Physics Letters</i> , 2003, 83, 1441-1443.	3.3	65
126	Quantifying the early stages of plasticity through nanoscale experiments and simulations. <i>Physical Review B</i> , 2003, 67, .	3.2	361

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127	Size effects on the onset of plastic deformation during nanoindentation of thin films and patterned lines. Journal of Applied Physics, 2003, 94, 6050-6058.	2.5	94
128	Simulation of nanoindentation via interatomic potential finite element method. , 2003, , 795-799.		1
129	Size effects on the mechanical properties of thin polycrystalline metal films on substrates. Acta Materialia, 2002, 50, 1881-1893.	7.9	62
130	Stepwiseâ€œGraded Si ₃ N ₄ â€œSiC Ceramics with Improved Wear Properties. Journal of the American Ceramic Society, 2002, 85, 2059-2064.	3.8	38
131	Atomistic mechanisms governing elastic limit and incipient plasticity in crystals. Nature, 2002, 418, 307-310.	27.8	621
132	Microstructural evolution in passivated Al films on Si substrates during thermal cycling. Acta Materialia, 2002, 50, 3435-3452.	7.9	57
133	Analysis of the impact of a sharp indenter. International Journal of Solids and Structures, 2002, 39, 281-295.	2.7	50
134	Graded Materials for Resistance to Contact Deformation and Damage. Science, 2001, 292, 2447-2451.	12.6	716
135	Parametric study of the volume fraction of fibers in 1â€³ PZT/Polyurethane piezoelectric composites during indentation. Ferroelectrics, 2001, 255, 1-12.	0.6	2
136	An experimental investigation of fretting fatigue in Ti-6Al-4V: the role of contact conditions and microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1131-1146.	2.2	60
137	Gradients in elastic modulus for improved contact-damage resistance. Part I: The silicon nitrideâ€œoxynitride glass system. Acta Materialia, 2001, 49, 3255-3262.	7.9	93
138	Large deformation of thin films and layered flat panels: effects of gravity. Acta Materialia, 2001, 49, 3671-3688.	7.9	12
139	Computational modeling of the forward and reverse problems in instrumented sharp indentation. Acta Materialia, 2001, 49, 3899-3918.	7.9	1,272
140	Instrumented spherical micro-indentation of plasma-sprayed coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 316, 1-10.	5.6	43
141	Interface cracks in layered materials subjected to a uniform temperature change. International Journal of Fracture, 2001, 110, 325-349.	2.2	14
142	Dynamic observation of Al thin films plastically strained in a TEM. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 463-467.	5.6	26
143	Effects of anisotropy and slip geometry on fatigue fracture of Cu/sapphire bicrystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 314, 55-66.	5.6	8
144	Gradients in elastic modulus for improved contact-damage resistance. part ii: the silicon nitrideâ€œsilicon carbide system. Acta Materialia, 2001, 49, 3263-3268.	7.9	67

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145	Study of mechanical deformation in bulk metallic glass through instrumented indentation. Acta Materialia, 2001, 49, 3781-3789.	7.9	313
146	Simulation of defect nucleation in a crystal. Nature, 2001, 411, 656-656.	27.8	238
147	A comprehensive unit cell model: a study of coupled effects in piezoelectric 1â€³3 composites. International Journal of Solids and Structures, 2000, 37, 5447-5464.	2.7	116
148	Effects of line and passivation geometry on curvature evolution during processing and thermal cycling in copper interconnect lines. Acta Materialia, 2000, 48, 3169-3175.	7.9	40
149	Discrete and continuous deformation during nanoindentation of thin films. Acta Materialia, 2000, 48, 2277-2295.	7.9	497
150	Determination of elasto-plastic properties by instrumented sharp indentation: guidelines for property extraction. Scripta Materialia, 2000, 42, 833-839.	5.2	206
151	Effects of sulfur on the fatigue and fracture resistance of interfaces between $\hat{1}^3$ -Ni(Cr) and $\hat{1}^{\pm}$ -Al ₂ O ₃ . Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 1977-1983.	2.2	18
152	Mechanical and electrical responses of piezoelectric solids to conical indentation. Journal of Applied Physics, 2000, 87, 8451-8456.	2.5	46
153	An Experimental Investigation of Fretting Fatigue with Spherical Contact in 7075-T6 Aluminum Alloy. , 2000, , 213-227.		19
154	<i>In situ</i> transmission electron microscopy investigation of threading dislocation motion in passivated thin aluminum films. Journal of Materials Research, 1999, 14, 4673-4676.	2.6	18
155	Electrical response during indentation of piezoelectric materials: A new method for material characterization. Journal of Applied Physics, 1999, 85, 380-387.	2.5	61
156	Grain morphology, texture, and microhardness gradients in aluminum diffusion-bonded to aluminum oxide. Acta Materialia, 1999, 47, 501-515.	7.9	10
157	An experimental study of spherical indentation on piezoelectric materials. Acta Materialia, 1999, 47, 2417-2430.	7.9	72
158	Engineering the resistance to sliding-contact damage through controlled gradients in elastic properties at contact surfaces. Acta Materialia, 1999, 47, 3915-3926.	7.9	127
159	The role of adhesion in contact fatigue. Acta Materialia, 1999, 47, 4653-4664.	7.9	41
160	Theory of indentation of piezoelectric materials. Acta Materialia, 1999, 47, 2153-2164.	7.9	270
161	Thermoelastic analysis of periodic thin lines deposited on a substrate. Journal of the Mechanics and Physics of Solids, 1999, 47, 1113-1130.	4.8	46
162	The influence of solid-state and liquid-phase bonding on fatigue at Al/Al ₂ O ₃ interfaces. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 763-769.	2.2	0

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163	Determination of elastoplastic properties by instrumented sharp indentation. Scripta Materialia, 1999, 40, 1191-1198.	5.2	628
164	Onset of plastic yielding in thin metal lines deposited on substrates. Scripta Materialia, 1999, 41, 297-304.	5.2	3
165	Nano-indentation of copper thin films on silicon substrates. Scripta Materialia, 1999, 41, 951-957.	5.2	310
166	Electrical response during indentation of a 1-3 piezoelectric ceramic-polymer composite. Journal of Applied Physics, 1999, 86, 603-606.	2.5	27
167	Indentation of Piezoelectric Ceramics: Theory, Experiments and Applications. Materials Research Society Symposia Proceedings, 1999, 604, 51.	0.1	0
168	Forming of Ceramics during Firing without the Application of External Pressure. Journal of the American Ceramic Society, 1999, 82, 1401-1408.	3.8	4
169	Fatigue crack nucleation in metallic materials. , 1999, , 17-28.		1
170	Modeling and experimental studies on fretting fatigue. , 1999, , 355-359.		0
171	Spherical indentation of composite laminates with controlled gradients in elastic anisotropy. International Journal of Solids and Structures, 1998, 35, 5097-5113.	2.7	53
172	Measurement of residual stress in plasma-sprayed metallic, ceramic and composite coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 257, 215-224.	5.6	149
173	Aspects of equivalence between contact mechanics and fracture mechanics: theoretical connections and a life-prediction methodology for fretting-fatigue. Acta Materialia, 1998, 46, 2955-2968.	7.9	172
174	A new method for estimating residual stresses by instrumented sharp indentation. Acta Materialia, 1998, 46, 5755-5767.	7.9	700
175	Stress evolution in passivated thin films of Cu on silica substrates. Journal of Materials Research, 1998, 13, 1928-1937.	2.6	60
176	Continuous measurements of load-penetration curves with spherical microindenters and the estimation of mechanical properties. Journal of Materials Research, 1998, 13, 1390-1400.	2.6	88
177	Evolution of stresses in passivated and unpassivated metal interconnects. Journal of Materials Research, 1998, 13, 1956-1966.	2.6	52
178	Transformation-toughened Ceramic Multilayers with Compositional Gradients. Journal of the American Ceramic Society, 1998, 81, 21-32.	3.8	36
179	Hertzian-crack Suppression in Ceramics with Elastic-modulus-Graded Surfaces. Journal of the American Ceramic Society, 1998, 81, 2301-2308.	3.8	125
180	Fatigue crack propagation along polymer-metal interfaces in microelectronic packages. IEEE Transactions on Components and Packaging Technologies, 1997, 20, 496-504.	0.7	29

#	ARTICLE	IF	CITATIONS
181	Large deformation and geometric instability of substrates with thin-film deposits. Journal of Applied Physics, 1997, 81, 3457-3464.	2.5	109
182	Elasto-plastic deformation of compositionally graded metal-ceramic composites. Acta Materialia, 1997, 45, 3401-3417.	7.9	58
183	Spherical indentation of compositionally graded materials: Theory and experiments. Acta Materialia, 1997, 45, 1307-1321.	7.9	170
184	Determination of processing-induced stresses and properties of layered and graded coatings: Experimental method and results for plasma-sprayed Ni ₃ -Al ₂ O ₃ . Acta Materialia, 1997, 45, 3123-3134.	7.9	65
185	The influence of chromium addition on the toughness of Γ^3 -Ni ₃ -Al ₂ O ₃ interfaces. Acta Materialia, 1997, 45, 3503-3513.	7.9	56
186	Modeling and design of multi-layered and graded materials. Progress in Materials Science, 1997, 42, 243-251.	32.8	48
187	Indentation of solids with gradients in elastic properties: Part I. Point force. International Journal of Solids and Structures, 1997, 34, 2357-2392.	2.7	241
188	Indentation of solids with gradients in elastic properties: Part II. axisymmetric indentors. International Journal of Solids and Structures, 1997, 34, 2393-2428.	2.7	200
189	Plasticity effects on fracture normal to interfaces with homogeneous and graded compositions. International Journal of Solids and Structures, 1997, 34, 3415-3432.	2.7	82
190	Simulation of the Elasto-Plastic Deformations in Compositionally Graded Metal-Ceramic Structures: Mean-Field and Unit Cell Approaches**This work was supported by the Grant DE-FG02-93ER45506 to MIT from the US Department of Energy. The post-doctoral study of EW at MIT was supported by an Erwin Schrödinger Fellowship from the AUSTRIAN NATIONAL SCIENCE FOUNDATION. HP's visit to MIT was supported by a scholarship for Overseas Scientific Study from the AUSTRIAN FEDERAL MINISTRY OF SCIENCE, TRANSPORT AND ART., 1997, 75-80.		3
191	Thermal expansion of metals reinforced with ceramic particles and microcellular foams. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 3700-3717.	2.2	88
192	Laser linking of metal interconnects: analysis and design considerations. IEEE Transactions on Electron Devices, 1996, 43, 402-410.	3.0	21
193	Curvature changes during thermal cycling of a compositionally graded Ni ₃ -Al ₂ O ₃ multi-layered material. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 205, 59-71.	5.6	61
194	Steady-state creep of metal-ceramic multilayered materials. Acta Materialia, 1996, 44, 1337-1348.	7.9	37
195	Small and large deformation of thick and thin-film multi-layers: Effects of layer geometry, plasticity and compositional gradients. Journal of the Mechanics and Physics of Solids, 1996, 44, 683-721.	4.8	189
196	Stresses, curvatures, and shape changes arising from patterned lines on silicon wafers. Journal of Applied Physics, 1996, 80, 1388-1398.	2.5	143
197	Cyclic compressive loading results in fatigue cracks in ultra high molecular weight polyethylene. Journal of Orthopaedic Research, 1995, 13, 143-146.	2.3	42
198	Effects of reinforcement orientation on the tensile response of metal-matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 177, 1-10.	5.6	41

#	ARTICLE	IF	CITATIONS
199	Elastoplastic analysis of thermal cycling: Ceramic particles in a metallic matrix. Journal of the Mechanics and Physics of Solids, 1995, 43, 1639-1671.	4.8	45
200	Fracture normal to a bimaterial interface: Effects of plasticity on crack-tip shielding and amplification. Acta Metallurgica Et Materialia, 1995, 43, 1157-1169.	1.8	157
201	Effective plastic response of two-phase composites. Acta Metallurgica Et Materialia, 1995, 43, 1701-1722.	1.8	105
202	Elastoplastic analysis of thermal cycling: layered materials with compositional gradients. Acta Metallurgica Et Materialia, 1995, 43, 1335-1354.	1.8	184
203	Thermal cycling and stress relaxation response of Si-Al and Si-Al-SiO ₂ layered thin films. Acta Metallurgica Et Materialia, 1995, 43, 3915-3926.	1.8	53
204	Fatigue crack growth at arbitrary angles to bimaterial interfaces. Scripta Metallurgica Et Materialia, 1995, 33, 2007-2012.	1.0	36
205	Recommendations on modeling polyphase plasticity: conclusions of panel discussions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 175, 1-5.	5.6	11
206	Issues in the finite element modeling of polyphase plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 175, 43-48.	5.6	10
207	Elastoplastic analysis of thermal cycling: Layered materials with sharp interfaces. Journal of the Mechanics and Physics of Solids, 1994, 42, 979-1018.	4.8	99
208	Cyclic stress fields ahead of tension fatigue cracks in amorphous polymers. Polymer, 1994, 35, 3221-3229.	3.8	18
209	Micromechanical modeling of reinforcement fracture in particle-reinforced metal-matrix composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 2403-2420.	2.2	117
210	Coefficients of thermal expansion of metal-matrix composites for electronic packaging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 839-850.	2.2	132
211	High-Temperature Crack Growth in Monolithic and SiCw-Reinforced Silicon Nitride under Static and Cyclic Loads. Journal of the American Ceramic Society, 1994, 77, 2985-2999.	3.8	50
212	Effect of Carbon Addition on Elevated Temperature Crack Growth Resistance in (Mo,W)Si ₂ -SiCp Composite. Journal of the American Ceramic Society, 1994, 77, 2681-2688.	3.8	15
213	Effective elastic response of two-phase composites. Acta Metallurgica Et Materialia, 1994, 42, 77-97.	1.8	128
214	Micromechanisms of Creep-Fatigue Crack Growth in a Silicide-Matrix Composite with SiC Particles. Journal of the American Ceramic Society, 1993, 76, 1953-1964.	3.8	35
215	Fatigue cracking in materials with brittle surface coatings. Scripta Metallurgica Et Materialia, 1993, 29, 237-242.	1.0	67
216	Cyclic near-tip fields for fatigue cracks along metal-metal and metal-ceramic interfaces. Acta Metallurgica Et Materialia, 1993, 41, 2317-2335.	1.8	19

#	ARTICLE	IF	CITATIONS
217	Effects of thermal residual stresses and fiber packing on deformation of metal-matrix composites. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 1665-1681.	1.8	175
218	Statistical Properties of Residual Stresses and Intergranular Fracture in Ceramic Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1993, 60, 77-84.	2.2	122
219	Special Issue Devoted to the Proceedings of the International Symposium on Micromechanics of Ceramics and Ceramic Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1993, 115, 227-227.	1.4	0
220	The growth of a fatigue crack approaching a perpendicularly-oriented, bimaterial interface. <i>Scripta Metallurgica Et Materialia</i> , 1992, 27, 1189-1194.	1.0	116
221	Fatigue crack growth in polymers subjected to fully compressive cyclic loads. <i>Journal of Materials Science</i> , 1992, 27, 1608-1616.	3.7	20
222	An experimental study of toughening and degradation due to microcracking in a ceramic composite. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 259-274.	1.8	35
223	Multiphase equilibrium analysis via a generalized equation of state for associating mixtures. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 2783-2794.	3.7	101
224	Fatigue crack growth in unidirectional graphite-epoxy composites under cyclic compression. <i>Journal of Materials Science Letters</i> , 1992, 11, 1356-1360.	0.5	10
225	Effects of sic content on fatigue crack growth in. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992, 23, 2231-2242.	1.4	110
226	An experimental and numerical study of cyclic deformation in metal-matrix composites. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992, 23, 919-934.	1.4	105
227	Elevated-temperature crack growth in polycrystalline alumina under static and cyclic loads. <i>Journal of Materials Science</i> , 1992, 27, 5181-5191.	3.7	50
228	Deformation of metal-matrix composites with continuous fibers: geometrical effects of fiber distribution and shape. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 735-752.	1.8	365
229	Introduction to the viewpoint set on mixed-mode fracture. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 981-983.	1.0	1
230	Mixed-mode inelastic crack-tip fields: Homogeneous solids and bimaterial interfaces. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 1017-1022.	1.0	9
231	An analysis of the effects of matrix void growth on deformation and ductility in metal-ceramic composites. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 2317-2335.	1.8	340
232	Combined mode I-mode II and mode I-mode III fracture of brittle materials. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 991-996.	1.0	11
233	Microstructural effects on ambient and elevated temperature fatigue crack growth in titanium aluminide intermetallics. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1991, 22, 817-828.	1.4	25
234	Surface film technique for crack length measurement in nonconductive brittle materials: Calibration and evaluation. <i>Engineering Fracture Mechanics</i> , 1991, 39, 629-640.	4.3	17

#	ARTICLE	IF	CITATIONS
235	Mixed-Mode Fracture Toughness of Ceramic Materials. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1257-1267.	3.8	195
236	Tensile Fracture Toughness of Ceramic Materials: Effects of Dynamic Loading and Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2457-2466.	3.8	48
237	Mechanics and micromechanisms of fatigue crack growth in brittle solids. <i>International Journal of Fracture</i> , 1990, 42, 41-56.	2.2	35
238	Plastic deformation of continuous fiber-reinforced metal-matrix composites: Effects of fiber shape and distribution. <i>Scripta Metallurgica Et Materialia</i> , 1990, 24, 325-330.	1.0	69
239	A theory for creep by interfacial flaw growth in ceramics and ceramic composites. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 55-68.	1.8	23
240	The baushinger effect in whisker-reinforced metal-matrix composites. <i>Scripta Metallurgica Et Materialia</i> , 1990, 24, 1203-1208.	1.0	42
241	On microstructural evolution and micromechanical modelling of deformation of a whisker-reinforced metal-matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 107, 49-61.	5.6	231
242	An analysis of ductile failure by grain boundary void growth. <i>Acta Metallurgica</i> , 1989, 37, 99-120.	2.1	52
243	An experimental and numerical study of deformation in metal-ceramic composites. <i>Acta Metallurgica</i> , 1989, 37, 3029-3050.	2.1	739
244	Crack growth in transforming ceramics under cyclic tensile loads. <i>Journal of Materials Science</i> , 1989, 24, 1729-1738.	3.7	42
245	High-Temperature Failure of an Alumina-Silicon Carbide Composite under Cyclic loads: Mechanisms of Fatigue Crack-Tip Damage. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1233-1238.	3.8	114
246	Accelerated aging in cast Al alloy-SiC particulate composites. <i>Scripta Metallurgica</i> , 1989, 23, 1599-1602.	1.2	150
247	Theory and experiments of fracture in cyclic compression: Single phase ceramics, transforming ceramics and ceramic composites. <i>Acta Metallurgica</i> , 1988, 36, 1455-1470.	2.1	117
248	Microstructural development in an aluminum alloy-SiC whisker composite. <i>Acta Metallurgica</i> , 1988, 36, 1691-1704.	2.1	388
249	An experimental study of the dynamic mechanical properties of an Al ₂ O ₃ -SiCw composite. <i>Engineering Fracture Mechanics</i> , 1988, 30, 295-315.	4.3	34
250	Fracture toughness and fatigue crack growth behaviour of an Al ₂ O ₃ -SiC composite. <i>Journal of Materials Science</i> , 1988, 23, 3206-3213.	3.7	17
251	Fracture of Si ₃ N ₄ -SiC Whisker Composites under Cyclic Loads. <i>Journal of the American Ceramic Society</i> , 1988, 71, C-158-C-161.	3.8	44
252	Effects of SiC reinforcement and aging treatment on fatigue crack growth in an Al ₂ O ₃ -SiC composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1988, 102, 211-216.	5.6	105

#	ARTICLE	IF	CITATIONS
253	The failure of hard materials in cyclic compression: Theory, experiments and applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1988, 105-106, 323-329.	5.6	8
254	Effects of residual stresses in fracture toughness testing of hard metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1988, 105-106, 383-387.	5.6	13
255	Mode III fracture of 4340 steel: Effects of tempering temperature and fracture surface interference. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988, 19, 3035-3044.	1.4	38
256	Crack propagation in ceramics under cyclic loads. <i>Journal of Materials Science</i> , 1987, 22, 1173-1192.	3.7	193
257	Fracture toughness measurements in ceramics: Pre-cracking in cyclic compression. <i>Journal of Materials Science</i> , 1987, 22, 1271-1276.	3.7	50
258	Torsional fracture of fatigue pre-cracked ceramic rods. <i>Journal of Materials Science</i> , 1987, 22, 2927-2932.	3.7	6
259	Microscopic and macroscopic aspects of fracture in lithium-containing aluminum alloys. <i>Acta Metallurgica</i> , 1987, 35, 25-46.	2.1	140
260	Constitutive behavior of a microcracking brittle solid in cyclic compression. <i>Journal of the Mechanics and Physics of Solids</i> , 1987, 35, 721-742.	4.8	58
261	Combined Mode I-Mode III Fracture of Fatigue-Pre-cracked Alumina. <i>Journal of the American Ceramic Society</i> , 1987, 70, 726-733.	3.8	99
262	Tensile Fracture Toughness Measurements in Ceramics. <i>Journal of the American Ceramic Society</i> , 1987, 70, C-41-C-43.	3.8	7
263	Crack initiation under far-field cyclic compression and the study of short fatigue cracks. <i>Engineering Fracture Mechanics</i> , 1986, 23, 953-964.	4.3	37
264	Growth of cracks under far-field cyclic compressive loads: Numerical and experimental results. <i>Engineering Fracture Mechanics</i> , 1986, 23, 1097-1106.	4.3	50
265	Room temperature fatigue crack growth in cemented carbides. <i>Materials Science and Engineering</i> , 1986, 83, L7-L10.	0.1	27
266	Plastic near-tip fields for branched cracks. <i>International Journal of Fracture</i> , 1986, 30, 237-259.	2.2	78
267	On the relationship between crack initiation toughness and crack growth toughness. <i>Materials Science and Engineering</i> , 1986, 79, 183-190.	0.1	15
268	Dynamic fatigue crack growth in polycrystalline alumina under cyclic compression. <i>Journal of Materials Science Letters</i> , 1986, 5, 774-778.	0.5	86
269	Crack initiation in cyclic compression and its applications. <i>Engineering Fracture Mechanics</i> , 1985, 21, 453-463.	4.3	124
270	Microstructural effects on quasi-static fracture mechanisms in Al _i -Li alloys: the role of crack geometry. <i>Materials Science and Engineering</i> , 1985, 72, 37-49.	0.1	38

#	ARTICLE	IF	CITATIONS
271	Lithium-containing aluminum alloys: cyclic fracture. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1985, 16, 475-477.	1.4	38
272	Fatigue crack propagation in oil environments. Crack growth behavior in silicone and paraffin oils. Acta Metallurgica, 1985, 33, 105-116.	2.1	45
273	Further remarks on the micromechanisms of fatigue crack growth retardation following overloads. Engineering Fracture Mechanics, 1985, 21, 1169-1170.	4.3	14
274	Fatigue crack growth behavior of aluminum alloy 2020 (Al-Cu-Li-Mn-Cd). Materials Science and Engineering, 1984, 64, 113-122.	0.1	50
275	Fatigue crack propagation in dual-phase steels: Effects of ferritic-martensitic microstructures on crack path morphology. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1984, 15, 1193-1207.	2.2	80
276	Mechanisms of Slow Fatigue Crack Growth in High Strength Aluminum Alloys: Role of Microstructure and Environment. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1984, 15, 369-379.	1.4	153
277	Crack deflection: Implications for the growth of long and short fatigue cracks. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1983, 14, 2375-2385.	1.4	321
278	On the contrast between mode I and mode III fatigue crack propagation under variable-amplitude loading conditions. Materials Science and Engineering, 1983, 59, L1-L5.	0.1	7
279	The fracture mechanics similitude concept: questions concerning its application to the behavior of short fatigue cracks. Materials Science and Engineering, 1983, 57, L27-L30.	0.1	38
280	Micromechanisms of fatigue crack growth retardation following overloads. Engineering Fracture Mechanics, 1983, 18, 577-593.	4.3	211
281	On the influence of environment on the load ratio dependence of fatigue thresholds in pressure vessel steel. Engineering Fracture Mechanics, 1983, 18, 785-800.	4.3	108
282	Some considerations on the modelling of oxide-induced fatigue crack closure using solutions for a rigid wedge inside a linear elastic crack. Scripta Metallurgica, 1983, 17, 575-580.	1.2	54
283	Crack growth retardation due to micro-roughness: A mechanism for overload effects in fatigue. Scripta Metallurgica, 1982, 16, 995-999.	1.2	48
284	Influence of plastic deformation on hydrogen transport in 2 Cr-1Mo steel. Scripta Metallurgica, 1982, 16, 455-459.	1.2	41
285	Some considerations on fatigue crack closure at near-threshold stress intensities due to fracture surface morphology. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1982, 13, 937-940.	1.4	230
286	A geometric model for fatigue crack closure induced by fracture surface roughness. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1982, 13, 1627-1631.	1.4	400
287	Influence of corrosion deposits on near-threshold fatigue crack growth behavior in 2xxx and 7xxx series aluminum alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1982, 13, 2271-2280.	1.4	86
288	THE EFFECT OF ENVIRONMENT ON FATIGUE CRACK GROWTH BEHAVIOR OF 2021 ALUMINUM ALLOY. Fatigue and Fracture of Engineering Materials and Structures, 1982, 5, 133-150.	3.4	18

#	ARTICLE	IF	CITATIONS
289	On the influence of fatigue underloads on cyclic crack growth at low stress intensities. Materials Science and Engineering, 1981, 51, 61-69.	0.1	34
290	Oxide-Induced Crack Closure: An Explanation for Near-Threshold Corrosion Fatigue Crack Growth Behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1981, 12, 1435-1443.	2.2	455