

Kaliat Ramesh

List of Publications by Year in descending order

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294
papers

14,676
citations

18465

62
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24961

109
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298
all docs

298
docs citations

298
times ranked

8908
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical characterization of boron carbide single crystals. Journal of the American Ceramic Society, 2022, 105, 3030-3042.	1.9	8
2	Models for the behavior of boron carbide in extreme dynamic environments. Journal of the American Ceramic Society, 2022, 105, 3043-3061.	1.9	10
3	Effect of microstructure on the dynamic behavior of Ultra-High-Molecular-Weight Polyethylene (UHMWPE) composites. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106833.	3.8	2
4	Investigating the effect of ventricle size on brain deformation using computational models. , 2022, , .		0
5	Data-driven uncertainty quantification in computational human head models. Computer Methods in Applied Mechanics and Engineering, 2022, 398, 115108.	3.4	5
6	A Mechanism-Based Model for the Impact Response of Quartz. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020209.	1.4	2
7	Young scholars benefit from collaboration. Nature Materials, 2021, 20, 1169-1170.	13.3	2
8	Quantifying particle-scale 3D granular dynamics during rapid compaction from time-resolved <i>in situ</i> 2D x-ray images. Journal of Applied Physics, 2021, 129, .	1.1	6
9	MR Imaging of Human Brain Mechanics In Vivo: New Measurements to Facilitate the Development of Computational Models of Brain Injury. Annals of Biomedical Engineering, 2021, 49, 2677-2692.	1.3	24
10	The mechanical behavior of single crystal and polycrystalline pure magnesium. Mechanics of Materials, 2021, 163, 104078.	1.7	2
11	A finite deformation framework for mechanism-based constitutive models of the dynamic behavior of brittle materials. Journal of the Mechanics and Physics of Solids, 2021, 155, 104518.	2.3	8
12	Spall strength in alloyed magnesium: A compendium of research efforts from the CMEDE 10-year effort. Mechanics of Materials, 2021, 162, 104065.	1.7	15
13	Integrating material properties from magnetic resonance elastography into subject-specific computational models for the human brain. Brain Multiphysics, 2021, 2, 100038.	0.8	7
14	Twin boundary migration mechanisms in quasi-statically compressed and plate-impacted Mg single crystals. Science Advances, 2021, 7, eabg3443.	4.7	12
15	Insights from the MEDE program: An overview of microstructure-property linkages in the dynamic behaviors of magnesium alloys. Mechanics of Materials, 2021, 163, 104084.	1.7	13
16	Dynamic fragmentation of boron carbide using laser-driven flyers. International Journal of Impact Engineering, 2020, 136, 103416.	2.4	6
17	Estimating Void Nucleation Statistics in Laser-Driven Spall. Journal of Dynamic Behavior of Materials, 2020, 6, 268-277.	1.1	9
18	Granular flow of an advanced ceramic under ultra-high strain rates and high pressures. Journal of the Mechanics and Physics of Solids, 2020, 143, 104031.	2.3	10

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19	Deformation and Failure Mechanisms in a Magnesium Alloy Under Uniaxial Compressive Loading. <i>Journal of Dynamic Behavior of Materials</i> , 2020, 6, 303-316.	1.1	4
20	Crack nucleation and growth during dynamic indentation of chemically-strengthened glass. <i>Extreme Mechanics Letters</i> , 2020, 38, 100754.	2.0	6
21	Real-time observation of twinning-detwinning in shock-compressed magnesium via time-resolved <i>in situ</i> synchrotron XRD experiments. <i>Physical Review Materials</i> , 2020, 4, .	0.9	12
22	Hardness and mechanical anisotropy of hexagonal SiC single crystal polytypes. <i>Journal of Alloys and Compounds</i> , 2019, 770, 158-165.	2.8	44
23	The Influence of Shear Anisotropy in mTBI: A White Matter Constitutive Model. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1960-1970.	1.3	9
24	A multi-mechanism constitutive model for the dynamic failure of quasi-brittle materials. Part II: Integrative model. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 131, 20-42.	2.3	17
25	The effect of strain rate on the mechanisms of plastic flow and failure of an ECAE AZ31B magnesium alloy. <i>Journal of Materials Science</i> , 2019, 54, 13394-13419.	1.7	16
26	The efficiency of thermal fatigue in regolith generation on small airless bodies. <i>Icarus</i> , 2019, 333, 356-370.	1.1	23
27	Quantifying the Local Mechanical Properties of Cells in a Fibrous Three-Dimensional Microenvironment. <i>Biophysical Journal</i> , 2019, 117, 817-828.	0.2	8
28	Dynamic failure mechanisms of granular boron carbide under multi-axial high-strain-rate loading. <i>Scripta Materialia</i> , 2019, 173, 125-128.	2.6	9
29	A Simple Dual-Beam Time-Multiplexed Photon Doppler Velocimeter for Pressure-Shear Plate Impact Experiments. <i>Experimental Mechanics</i> , 2019, 59, 41-49.	1.1	18
30	A multi-mechanism constitutive model for the dynamic failure of quasi-brittle materials. Part I: Amorphization as a failure mode. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 130, 370-392.	2.3	21
31	Laser-Driven Flyers and Nanosecond-Resolved Velocimetry for Spall Studies in Thin Metal Foils. <i>Experimental Mechanics</i> , 2019, 59, 611-628.	1.1	27
32	Nonlinear contact mechanics for the indentation of hyperelastic cylindrical bodies. <i>Mechanics of Soft Materials</i> , 2019, 1, 1.	0.4	6
33	A 3D Computational Head Model Under Dynamic Head Rotation and Head Extension Validated Using Live Human Brain Data, Including the Falx and the Tentorium. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1923-1940.	1.3	44
34	A new hybrid framework for simulating hypervelocity asteroid impacts and gravitational reaccumulation. <i>Icarus</i> , 2019, 321, 1013-1025.	1.1	9
35	Validated simulations of dynamic crack propagation in single crystals using EFEM and XFEM. <i>International Journal of Fracture</i> , 2019, 215, 49-65.	1.1	4
36	A mechanism for injury through cerebral arteriole inflation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 651-663.	1.4	2

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37	Quantification of damage and its effects on the compressive strength of an advanced ceramic. Engineering Fracture Mechanics, 2019, 208, 107-118.	2.0	8
38	Determination of size distributions of non-spherical pores or particles from single x-ray phase contrast images. Optics Express, 2019, 27, 17322.	1.7	7
39	Effect of bulk modulus on deformation of the brain under rotational accelerations. Shock Waves, 2018, 28, 127-139.	1.0	23
40	The origins of Asteroidal rock disaggregation: Interplay of thermal fatigue and microstructure. Icarus, 2018, 304, 172-182.	1.1	27
41	In Situ Time-Resolved Measurements of Extension Twinning During Dynamic Compression of Polycrystalline Magnesium. Journal of Dynamic Behavior of Materials, 2018, 4, 222-230.	1.1	9
42	The mechanics of dynamic twinning in single crystal magnesium. Journal of the Mechanics and Physics of Solids, 2018, 120, 154-178.	2.3	38
43	Characteristic dislocation substructure in α -Mg. <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" overflow="scroll"><mml:mfenced open="{ " close="}"><mml:mrow><mml:mn>10</mml:mn><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo stretchy="true">Å</mml:mo></mml:mrow></mml:mfenced></mml:math></small> twins in hexagonal metals. Scripta Materialia, 2018, 143, 81-85.	2.6	48
44	An Analysis of Strengthening Mechanisms and Rate-Dependence in a High Strength Aluminum Alloy. Journal of Dynamic Behavior of Materials, 2018, 4, 6-17.	1.1	13
45	A crystal plasticity model for body-centered cubic molybdenum: Experiments and simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 283-294.	2.6	13
46	Quantitative In Situ Studies of Dynamic Fracture in Brittle Solids Using Dynamic X-ray Phase Contrast Imaging. Experimental Mechanics, 2018, 58, 1423-1437.	1.1	20
47	The dynamic plasticity and dynamic failure of a magnesium alloy under multiaxial loading. Acta Materialia, 2018, 154, 124-136.	3.8	35
48	The effective compliance of spatially evolving planar wing-cracks. Journal of the Mechanics and Physics of Solids, 2018, 111, 503-529.	2.3	14
49	Fragmentation of an advanced ceramic under ballistic impact: Mechanisms and microstructure. International Journal of Impact Engineering, 2017, 102, 47-54.	2.4	39
50	Dynamic electromechanical behavior of single-crystal α -quartz. International Journal of Impact Engineering, 2017, 110, 338-345.	2.4	4
51	A Three-Dimensional Computational Human Head Model That Captures Live Human Brain Dynamics. Journal of Neurotrauma, 2017, 34, 2154-2166.	1.7	99
52	Twinning in single crystal Mg under microsecond impact along the α -axis. <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0002.gif" overflow="scroll"><mml:mrow><mml:mo stretchy="false">Å</mml:mo><mml:mi>a</mml:mi><mml:mo stretchy="false">°</mml:mo></mml:mrow></mml:math></small> axis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 22-25.	2.6	19
53	Rocks, Shocks and Asteroids, and Some Interesting Research Directions in Mechanics. Experimental Mechanics, 2017, 57, 1149-1159.	1.1	2
54	Spall response and failure mechanisms associated with a hot-extruded AMX602 Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 725-731.	2.6	28

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55	Microstructural characterization of boron-rich boron carbide. <i>Acta Materialia</i> , 2017, 136, 202-214.	3.8	91
56	Damage evolution of hot-pressed boron carbide under confined dynamic compression. <i>International Journal of Impact Engineering</i> , 2017, 99, 75-84.	2.4	33
57	Investigating the velocity envelope of laser-driven micro-flyers for hypervelocity impact experiments. <i>Procedia Engineering</i> , 2017, 204, 215-222.	1.2	2
58	The Effect of $\{10\bar{0}\}$ Twin Boundary on the Evolution of Defect Substructure. <i>Minerals, Metals and Materials Series</i> , 2017, , 175-180.	0.3	0
59	Acoustic Emission of Deformation Twinning in Magnesium. <i>Materials</i> , 2016, 9, 662.	1.3	21
60	On Compressive Brittle Fragmentation. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2159-2169.	1.9	37
61	Effect of strain rate and dislocation density on the twinning behavior in tantalum. <i>AIP Advances</i> , 2016, 6, .	0.6	40
62	A model for impact-induced lineament formation and porosity growth on Eros. <i>Icarus</i> , 2016, 266, 76-87.	1.1	11
63	Microstructural effects on the spall properties of ECAE-processed AZ31B magnesium alloy. <i>International Journal of Impact Engineering</i> , 2016, 98, 34-41.	2.4	53
64	Anisotropy of Mechanical Properties in a Hot-Pressed Boron Carbide. <i>International Journal of Applied Ceramic Technology</i> , 2016, 13, 1008-1016.	1.1	14
65	Unraveling the Anomalous Grain Size Dependence of Cavitation. <i>Physical Review Letters</i> , 2016, 117, 215503.	2.9	54
66	Data integration for materials research. <i>Integrating Materials and Manufacturing Innovation</i> , 2016, 5, 143-153.	1.2	6
67	A Dynamic Inflation Test for Soft Materials. <i>Experimental Mechanics</i> , 2016, 56, 759-769.	1.1	14
68	The effects of defects on the uniaxial compressive strength and failure of an advanced ceramic. <i>Acta Materialia</i> , 2016, 102, 263-272.	3.8	47
69	Multi-scale defect interactions in high-rate brittle material failure. Part I: Model formulation and application to ALON. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 86, 117-149.	2.3	45
70	Multi-scale defect interactions in high-rate failure of brittle materials, Part II: Application to design of protection materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 86, 237-258.	2.3	21
71	A closed-form criterion for dislocation emission in nano-porous materials under arbitrary thermomechanical loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 86, 94-116.	2.3	35
72	Dynamic Brittle Fragmentation: Probing the Byproducts of Hypervelocity Impact in Space. <i>Procedia Engineering</i> , 2015, 103, 205-212.	1.2	6

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73	Effect of shear-void-growth-softening on adiabatic shear-band-spacing in ductile materials. <i>Acta Mechanica</i> , 2015, 226, 4189-4206.	1.1	9
74	Changes in Neurofilament and Microtubule Distribution following Focal Axon Compression. <i>PLoS ONE</i> , 2015, 10, e0131617.	1.1	16
75	Microstructural evolution of pure magnesium under high strain rate loading. <i>Acta Materialia</i> , 2015, 87, 56-67.	3.8	168
76	The Effects of Microstructure and Confinement on the Compressive Fragmentation of an Advanced Ceramic. <i>Journal of the American Ceramic Society</i> , 2015, 98, 902-912.	1.9	41
77	A review of mechanisms and models for dynamic failure, strength, and fragmentation. <i>Planetary and Space Science</i> , 2015, 107, 10-23.	0.9	79
78	Micromechanisms associated with the dynamic compressive failure of hot-pressed boron carbide. <i>Scripta Materialia</i> , 2015, 106, 52-56.	2.6	41
79	A 3D mechanistic model for brittle materials containing evolving flaw distributions under dynamic multiaxial loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 78, 269-297.	2.3	51
80	Spatial and temporal evolution of dynamic damage in single crystal SiO_2 -quartz. <i>Mechanics of Materials</i> , 2015, 87, 61-79.	1.7	8
81	A Quantitative Approach to Comparing High Velocity Impact Experiments and Simulations Using XCT Data. <i>Procedia Engineering</i> , 2015, 103, 610-617.	1.2	3
82	Modeling of ductile fragmentation that includes void interactions. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 85, 54-73.	2.3	4
83	Dynamic behavior of an ordinary chondrite: The effects of microstructure on strength, failure and fragmentation. <i>Icarus</i> , 2015, 260, 308-319.	1.1	24
84	Ultra-high-strain-rate shearing and deformation twinning in nanocrystalline aluminum. <i>Meccanica</i> , 2015, 50, 561-574.	1.2	9
85	Twinning in magnesium under dynamic loading. <i>EPJ Web of Conferences</i> , 2015, 94, 02018.	0.1	2
86	Stochastic size-dependent slip-twinning competition in hexagonal close packed single crystals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 075003.	0.8	9
87	Stability of ideal fcc twin boundaries. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 73, 228-241.	2.3	4
88	Time-resolved x-ray diffraction techniques for bulk polycrystalline materials under dynamic loading. <i>Review of Scientific Instruments</i> , 2014, 85, 093901.	0.6	28
89	Incipient deformation twinning in dynamically sheared bcc tantalum. <i>Acta Materialia</i> , 2014, 69, 114-125.	3.8	34
90	Thermal fatigue as the origin of regolith on small asteroids. <i>Nature</i> , 2014, 508, 233-236.	13.7	280

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91	Kinetics of a fast moving twin boundary in nickel. <i>Acta Materialia</i> , 2014, 68, 82-92.	3.8	33
92	The Dynamic Flow and Failure Behavior of Magnesium and Magnesium Alloys. <i>Jom</i> , 2014, 66, 291-304.	0.9	52
93	<i>In vitro</i> and <i>in situ</i> visualization of cytoskeletal deformation under load: traumatic axonal injury. <i>FASEB Journal</i> , 2014, 28, 5277-5287.	0.2	16
94	On the shock stress, substructure evolution, and spall response of commercially pure 1100-O aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 596-604.	2.6	23
95	Dynamic Behavior of a Rare-Earth-Containing Mg Alloy, WE43B-T5, Plate with Comparison to Conventional Alloy, AM30-F. <i>Jom</i> , 2014, 66, 277-290.	0.9	39
96	In-situ observations and quantification of twin boundary mobility in polycrystalline magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 617, 121-126.	2.6	17
97	A dynamic void growth model governed by dislocation kinetics. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 70, 262-280.	2.3	64
98	A computational model of blast loading on the human eye. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 123-140.	1.4	42
99	A scaling law for the dynamic strength of brittle solids. <i>Acta Materialia</i> , 2013, 61, 3509-3521.	3.8	95
100	Visualization of Early Stage Damage Propagation During Hypervelocity Impacts on Brittle Materials. <i>Procedia Engineering</i> , 2013, 58, 678-683.	1.2	5
101	A Consistent Scaling Framework for Simulating High Rate Brittle Failure Problems. <i>Procedia Engineering</i> , 2013, 58, 692-701.	1.2	12
102	Interplay of dislocation slip and deformation twinning in tantalum at high strain rates. <i>Scripta Materialia</i> , 2013, 69, 709-712.	2.6	27
103	Effect of low-temperature rolling on the propensity to adiabatic shear banding of commercial purity tungsten. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 394-401.	2.6	33
104	Experimental Observations on Dynamic Response of Selected Transparent Armor Materials. <i>Experimental Mechanics</i> , 2013, 53, 3-29.	1.1	56
105	Stress-driven grain growth in ultrafine grained Mg thin film. <i>Scripta Materialia</i> , 2013, 68, 424-427.	2.6	34
106	Probabilistic response of heterogeneous particle reinforced metal matrix composites with particle size dependent strengthening. <i>Computational Materials Science</i> , 2013, 79, 15-24.	1.4	13
107	Effects of the initial dislocation density on size effects in single-crystal magnesium. <i>Acta Materialia</i> , 2013, 61, 3808-3818.	3.8	75
108	Simulating Mechanical Behavior of Ceramics Under Extreme Conditions. <i>Annual Review of Materials Research</i> , 2013, 43, 131-156.	4.3	12

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109	A Multiscale Computational Approach to Estimating Axonal Damage under Inertial Loading of the Head. <i>Journal of Neurotrauma</i> , 2013, 30, 102-118.	1.7	107
110	The effects of cold rolling on the microstructural and spall response of 1100 aluminum. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	21
111	Spall response of 1100-O aluminum. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	45
112	A Finite Element Model for Estimating Axonal Damage in Traumatic Brain Injury. , 2012, , .		0
113	The mechanism of compressive unloading failure in single crystal quartz and other brittle solids. <i>International Journal of Solids and Structures</i> , 2012, 49, 3923-3934.	1.3	7
114	Designer materials for a secure future. , 2012, , .		0
115	Rate-dependent hardening due to twinning in an ultrafine-grained magnesium alloy. <i>Acta Materialia</i> , 2012, 60, 1818-1826.	3.8	74
116	Mechanisms of dynamic deformation and dynamic failure in aluminum nitride. <i>Acta Materialia</i> , 2012, 60, 3480-3490.	3.8	51
117	Dynamic multiaxial response of a hot-pressed aluminum nitride. <i>Scripta Materialia</i> , 2012, 66, 527-530.	2.6	17
118	Orientation dependence of the nucleation and growth of partial dislocations and possible twinning mechanisms in aluminum. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 277-294.	2.3	23
119	Temperature-Dependent Mechanical Response of an UFG Aluminum Alloy at High Rates. <i>Experimental Mechanics</i> , 2012, 52, 185-194.	1.1	14
120	An axonal strain injury criterion for traumatic brain injury. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 245-260.	1.4	148
121	Thresholds for Embryonic CNS Axon Integrity, Degeneration, and Regrowth Using a Focal Compression Platform. , 2012, , .		0
122	The dynamic strength of an ordinary chondrite. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1653-1669.	0.7	69
123	Valve-based microfluidic compression platform: single axon injury and regrowth. <i>Lab on A Chip</i> , 2011, 11, 3888.	3.1	87
124	Dynamic response of transparent ceramic MgAl ₂ O ₄ spinel. <i>Scripta Materialia</i> , 2011, 65, 830-833.	2.6	25
125	Predicting variability in the dynamic failure strength of brittle materials considering pre-existing flaws. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 297-319.	2.3	66
126	The compressive failure of aluminum nitride considered as a model advanced ceramic. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1076-1093.	2.3	66

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127	A Scaled Model Describing the Rate-Dependent Compressive Failure of Brittle Materials. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 419-421.	0.3	1
128	The Mechanical Response of Aluminum Nitride at Very High Strain Rates. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 327-328.	0.3	0
129	Size Effects Associated with Microcompression Experiments on Single-Crystal Magnesium. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 41-42.	0.3	1
130	Modeling Study for the Design of an Innovative Composite Membrane Inflation Test. , 2011, , .		0
131	The Use of a Cellular Strain Injury Criterion and Diffusion Tensor Imaging in a Computational Model of Traumatic Brain Injury. , 2010, , .		0
132	Strengthening mechanisms in an Al-Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1292-1298.	2.6	285
133	High strain rate deformation and resultant damage mechanisms in ultrafine-grained aluminum matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5990-5996.	2.6	30
134	Microcompression of single-crystal magnesium. Scripta Materialia, 2010, 62, 536-539.	2.6	178
135	Visualization of the failure of quartz under quasi-static and dynamic compression. Journal of Geophysical Research, 2010, 115, .	3.3	30
136	Modelling of non-linear elastic tissues for surgical simulation. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 811-818.	0.9	52
137	Mechanics of Flexible Needles Robotically Steered through Soft Tissue. International Journal of Robotics Research, 2010, 29, 1640-1660.	5.8	251
138	Observations and models for needle-tissue interactions. , 2009, , .		41
139	Application of Diffusion Tensor Imaging in Modeling Diffuse Axonal Injury. , 2009, , .		0
140	Strengthening mechanisms in cryomilled ultrafine-grained aluminum alloy at quasi-static and dynamic rates of loading. Scripta Materialia, 2009, 60, 619-622.	2.6	63
141	A nucleation mechanism of deformation twins in pure aluminum. Acta Materialia, 2009, 57, 4500-4507.	3.8	68
142	An enhanced continuum model for size-dependent strengthening and failure of particle-reinforced composites. Acta Materialia, 2009, 57, 5848-5861.	3.8	137
143	Dynamic testing at high strain rates of an ultrafine-grained magnesium alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 24-29.	2.6	96
144	On the Occurrence of Portevin-Le Châtelier Instabilities in Ultrafine-Grained 5083 Aluminum Alloys. Experimental Mechanics, 2009, 49, 207-218.	1.1	33

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145	Rodney James Clifton. <i>Experimental Mechanics</i> , 2009, 49, 165-168.	1.1	0
146	Inelastic behavior and fracture of high modulus polymeric fiber bundles at high strain-rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 500, 216-224.	2.6	31
147	Statistically informed dynamics of void growth in rate dependent materials. <i>International Journal of Impact Engineering</i> , 2009, 36, 1242-1249.	2.4	20
148	ALON: A brief history of its emergence and evolution. <i>Journal of the European Ceramic Society</i> , 2009, 29, 223-236.	2.8	260
149	The importance of organ geometry and boundary constraints for planning of medical interventions. <i>Medical Engineering and Physics</i> , 2009, 31, 195-206.	0.8	62
150	Plastic Deformation of Nanomaterials. , 2009, , 121-178.		2
151	Quantifying perception of nonlinear elastic tissue models using multidimensional scaling. , 2009, , .		4
152	Mechanical Failure Processes in Nanomaterials. , 2009, , 179-213.		2
153	Nanoscale Mechanics and Materials: Experimental Techniques. , 2009, , 61-93.		0
154	Scale-Dominant Mechanisms in Nanomaterials. , 2009, , 215-259.		0
155	Modeling Nanomaterials. , 2009, , 261-298.		0
156	Nanomaterials. , 2009, , .		42
157	Observations of needle-tissue interactions. , 2009, 2009, 262-5.		12
158	TOWN HALL MEETINGâ€™SCCM 2009. , 2009, , .		1
159	Grain size dependent shear instabilities in body-centered and face-centered cubic materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 493, 65-70.	2.6	22
160	CTH simulations of an expanding ring to study fragmentation. <i>International Journal of Impact Engineering</i> , 2008, 35, 1661-1665.	2.4	13
161	Dislocation Configurations in an Extruded ZK60 Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 2607-2614.	1.1	42
162	Dynamic behaviors of body-centered cubic metals with ultrafine grained and nanocrystalline microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 493, 58-64.	2.6	42

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163	Dynamic void nucleation and growth in solids: A self-consistent statistical theory. Journal of the Mechanics and Physics of Solids, 2008, 56, 336-359.	2.3	63
164	An interacting micro-crack damage model for failure of brittle materials under compression. Journal of the Mechanics and Physics of Solids, 2008, 56, 896-923.	2.3	230
165	Computational micromechanics of dynamic compressive loading of a brittle polycrystalline material using a distribution of grain boundary properties. Journal of the Mechanics and Physics of Solids, 2008, 56, 2618-2641.	2.3	51
166	A multi-axial constitutive model for metal matrix composites. Journal of the Mechanics and Physics of Solids, 2008, 56, 2972-2983.	2.3	17
167	Rotational diffusion and grain size dependent shear instability in nanostructured materials. Acta Materialia, 2008, 56, 282-291.	3.8	35
168	Size-independent strength and deformation mode in compression of a Pd-based metallic glass. Acta Materialia, 2008, 56, 5091-5100.	3.8	175
169	Dynamic Compressive Failure of ALON Under Controlled Planar Confinement. Journal of the American Ceramic Society, 2008, 91, 3619-3629.	1.9	56
170	Rate-dependent behavior of hierarchical Al matrix composites. Scripta Materialia, 2008, 59, 1139-1142.	2.6	23
171	Needle-tissue interaction forces for bevel-tip steerable needles. , 2008, , 224-231.		74
172	Modeling of Tool-Tissue Interactions for Computer-Based Surgical Simulation: A Literature Review. Presence: Teleoperators and Virtual Environments, 2008, 17, 463-491.	0.3	168
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