

Hongbing Lu

List of Publications by Year in descending order

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144
papers

6,364
citations

66234

42
h-index

74018

75
g-index

148
all docs

148
docs citations

148
times ranked

6090
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchically buckled sheath-core fibers for superelastic electronics, sensors, and muscles. <i>Science</i> , 2015, 349, 400-404.	6.0	447
2	Deformation measurements by digital image correlation: Implementation of a second-order displacement gradient. <i>Experimental Mechanics</i> , 2000, 40, 393-400.	1.1	342
3	Localized cell death focuses mechanical forces during 3D patterning in a biofilm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18891-18896.	3.3	305
4	Chemical, Physical, and Mechanical Characterization of Isocyanate Cross-linked Amine-Modified Silica Aerogels. <i>Chemistry of Materials</i> , 2006, 18, 285-296.	3.2	259
5	Measurement of Creep Compliance of Solid Polymers by Nanoindentation. <i>Mechanics of Time-Dependent Materials</i> , 2003, 7, 189-207.	2.3	257
6	Sheath-run artificial muscles. <i>Science</i> , 2019, 365, 150-155.	6.0	218
7	The effect of resin uptake on the flexural properties of compression molded sandwich composites. <i>Wind Energy</i> , 2022, 25, 71-93.	1.9	187
8	Nanoindentation measurement of core-skin interphase viscoelastic properties in a sandwich glass composite. <i>Mechanics of Time-Dependent Materials</i> , 2021, 25, 353-363.	2.3	175
9	Multifunctional Polyurea Aerogels from Isocyanates and Water. A Structure-Property Case Study. <i>Chemistry of Materials</i> , 2010, 22, 6692-6710.	3.2	163
10	Orientation effects in nanoindentation of single crystal copper. <i>International Journal of Plasticity</i> , 2008, 24, 1990-2015.	4.1	138
11	Polyimide Aerogels by Ring-Opening Metathesis Polymerization (ROMP). <i>Chemistry of Materials</i> , 2011, 23, 2250-2261.	3.2	134
12	Torsional refrigeration by twisted, coiled, and supercoiled fibers. <i>Science</i> , 2019, 366, 216-221.	6.0	133
13	One-Pot Synthesis of Interpenetrating Inorganic/Organic Networks of CuO/Resorcinol-Formaldehyde Aerogels: Nanostructured Energetic Materials. <i>Journal of the American Chemical Society</i> , 2009, 131, 4576-4577.	6.6	131
14	Combined numerical simulation and nanoindentation for determining mechanical properties of single crystal copper at mesoscale. <i>Journal of the Mechanics and Physics of Solids</i> , 2005, 53, 2718-2741.	2.3	120
15	Fractal Multiscale Nanoporous Polyurethanes: Flexible to Extremely Rigid Aerogels from Multifunctional Small Molecules. <i>Chemistry of Materials</i> , 2013, 25, 3205-3224.	3.2	120
16	Cross-Linking 3D Assemblies of Nanoparticles into Mechanically Strong Aerogels by Surface-Initiated Free-Radical Polymerization. <i>Chemistry of Materials</i> , 2008, 20, 5035-5046.	3.2	112
17	A damage model for the fatigue life of elastomeric materials. <i>Mechanics of Materials</i> , 2002, 34, 475-483.	1.7	89
18	Determination of Mechanical Properties of Sand Grains by Nanoindentation. <i>Experimental Mechanics</i> , 2011, 51, 719-728.	1.1	85

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19	Multifunctional porous aramids (aerogels) by efficient reaction of carboxylic acids and isocyanates. <i>Journal of Materials Chemistry</i> , 2011, 21, 11981.	6.7	84
20	Modeling nonlinear behavior in a piezoelectric actuator. <i>Precision Engineering</i> , 2001, 25, 128-137.	1.8	82
21	Effect of Mass Density on the Compressive Behavior of Dry Sand Under Confinement at High Strain Rates. <i>Experimental Mechanics</i> , 2011, 51, 1499-1510.	1.1	81
22	Effects of particle size and moisture on the compressive behavior of dense Eglin sand under confinement at high strain rates. <i>International Journal of Impact Engineering</i> , 2014, 65, 40-55.	2.4	78
23	Monolithic Hierarchical Fractal Assemblies of Silica Nanoparticles Cross-Linked with Polynorbornene via ROMP: A Structure-Property Correlation from Molecular to Bulk through Nano. <i>Chemistry of Materials</i> , 2012, 24, 3434-3448.	3.2	73
24	Measurements of Viscoelastic Functions of Polymers in the Frequency-Domain Using Nanoindentation. <i>Mechanics of Time-Dependent Materials</i> , 2004, 8, 345-364.	2.3	72
25	The compressive behavior of isocyanate-crosslinked silica aerogel at high strain rates. <i>Mechanics of Time-Dependent Materials</i> , 2006, 10, 83-111.	2.3	65
26	Simulation of dynamic crack growth using the generalized interpolation material point (GIMP) method. <i>International Journal of Fracture</i> , 2007, 143, 79-102.	1.1	64
27	Polymer nano-encapsulation of templated mesoporous silica monoliths with improved mechanical properties. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 632-644.	1.5	62
28	Fluorescent stereo microscopy for 3D surface profilometry and deformation mapping. <i>Optics Express</i> , 2013, 21, 11808.	1.7	62
29	Characterization of the linearly viscoelastic behavior of human tympanic membrane by nanoindentation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2009, 2, 82-92.	1.5	61
30	Surface deformation measurements of a cylindrical specimen by digital image correlation. <i>Experimental Mechanics</i> , 1997, 37, 433-439.	1.1	60
31	Synthesis and characterization of the physical, chemical and mechanical properties of isocyanate-crosslinked vanadia aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 113-134.	1.1	59
32	Harvesting temperature fluctuations as electrical energy using torsional and tensile polymer muscles. <i>Energy and Environmental Science</i> , 2015, 8, 3336-3344.	15.6	57
33	Measurement of Young's relaxation modulus using nanoindentation. <i>Mechanics of Time-Dependent Materials</i> , 2007, 10, 229-243.	2.3	56
34	Polymer nanoencapsulated mesoporous vanadia with unusual ductility at cryogenic temperatures. <i>Journal of Materials Chemistry</i> , 2008, 18, 2475.	6.7	56
35	Measurements of Two Independent Viscoelastic Functions by Nanoindentation. <i>Experimental Mechanics</i> , 2007, 47, 87-98.	1.1	53
36	<i>Mechanics of Polymers: Viscoelasticity</i> . Springer Handbooks, 2008, , 49-96.	0.3	51

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37	Measurement of Young's Modulus of Human Tympanic Membrane at High Strain Rates. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 064501.	0.6	49
38	The changes in flexural properties and microstructures of carbon fiber bismaleimide composite after exposure to a high temperature. <i>Composite Structures</i> , 2014, 108, 57-64.	3.1	48
39	Internal Deformation Measurement of Polymer Bonded Sugar in Compression by Digital Volume Correlation of In-situ Tomography. <i>Experimental Mechanics</i> , 2015, 55, 289-300.	1.1	46
40	Chemically modified graphene films with tunable negative Poisson's ratios. <i>Nature Communications</i> , 2019, 10, 2446.	5.8	46
41	The viscoelastic behavior of dental adhesives: A nanoindentation study. <i>Dental Materials</i> , 2009, 25, 13-19.	1.6	44
42	Characterization of the mechanical behavior of SU-8 at microscale by viscoelastic analysis. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 105001.	1.5	44
43	Polydicyclopentadiene aerogels grafted with PMMA: I. Molecular and interparticle crosslinking. <i>Soft Matter</i> , 2013, 9, 1516-1530.	1.2	43
44	Structural, elastic, thermal, and electronic responses of small-molecule-loaded metal-organic framework materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 986-995.	5.2	42
45	A Method for Measuring Linearly Viscoelastic Properties of Human Tympanic Membrane Using Nanoindentation. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 014501.	0.6	40
46	In Vitro Biocompatibility of Sheath-Core Cellulose-Acetate-Based Electrospun Scaffolds Towards Endothelial Cells and Platelets. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1713-1736.	1.9	40
47	Title is missing!. <i>Mechanics of Time-Dependent Materials</i> , 1998, 2, 307-334.	2.3	37
48	Low-Cost, Ambient-Dried, Superhydrophobic, High Strength, Thermally Insulating, and Thermally Resilient Polybenzoxazine Aerogels. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2322-2333.	2.0	37
49	Polydicyclopentadiene aerogels grafted with PMMA: II. Nanoscopic characterization and origin of macroscopic deformation. <i>Soft Matter</i> , 2013, 9, 1531-1539.	1.2	36
50	Using ultra-thin interlaminar carbon nanotube sheets to enhance the mechanical and electrical properties of carbon fiber reinforced polymer composites. <i>Composites Part B: Engineering</i> , 2021, 216, 108842.	5.9	36
51	Simulation of dynamic fracture with the Material Point Method using a mixed J-integral and cohesive law approach. <i>International Journal of Fracture</i> , 2011, 170, 49-66.	1.1	35
52	Internal Deformation Measurement and Force Chain Characterization of Mason Sand under Confined Compression using Incremental Digital Volume Correlation. <i>Experimental Mechanics</i> , 2014, 54, 1575-1586.	1.1	35
53	Synthesis and mechanical characterization of mechanically strong, polyurea-crosslinked, ordered mesoporous silica aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 98-123.	1.1	34
54	Nanoporous Polyurea from a Triisocyanate and Boric Acid: A Paradigm of a General Reaction Pathway for Isocyanates and Mineral Acids. <i>Chemistry of Materials</i> , 2016, 28, 67-78.	3.2	34

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55	Sound insulation properties in low-density, mechanically strong and ductile nanoporous polyurea aerogels. <i>Journal of Non-Crystalline Solids</i> , 2017, 476, 36-45.	1.5	34
56	Dynamic compressive behavior of unidirectional IM7/5250-4 laminate after thermal oxidation. <i>Composites Science and Technology</i> , 2012, 72, 159-166.	3.8	32
57	Uniaxial, shear, and poisson relaxation and their conversion to bulk relaxation: Studies on poly(methyl methacrylate). <i>Polymer Composites</i> , 1997, 18, 211-222.	2.3	31
58	Evaluation of Dysprosia Aerogels as Drug Delivery Systems: A Comparative Study with Random and Ordered Mesoporous Silicas. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4891-4902.	4.0	31
59	Characterization of the linear viscoelastic behavior of single-wall carbon nanotube/polyelectrolyte multilayer nanocomposite film using nanoindentation. <i>Thin Solid Films</i> , 2006, 500, 197-202.	0.8	28
60	Measurement of thickness and profile of a transparent material using fluorescent stereo microscopy. <i>Optics Express</i> , 2016, 24, 29822.	1.7	28
61	Stresses at the Interface of Micro with Nano. <i>Journal of the American Chemical Society</i> , 2007, 129, 10660-10661.	6.6	27
62	Characterization of the Compressive Behavior of Glass Fiber Reinforced Polyurethane Foam at Different Strain Rates. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2010, 132, .	0.6	27
63	Nanoindentation of <i>Pseudomonas aeruginosa</i> bacterial biofilm using atomic force microscopy. <i>Materials Research Express</i> , 2014, 1, 045411.	0.8	27
64	Scalable, hydrophobic and highly-stretchable poly(isocyanurate-urethane) aerogels. <i>RSC Advances</i> , 2018, 8, 21214-21223.	1.7	26
65	Solvent-free functionalization and transfer of aligned carbon nanotubes with vapor-deposited polymer nanocoatings. <i>Journal of Materials Chemistry</i> , 2011, 21, 837-842.	6.7	25
66	Simulation of the microstructural evolution of a polymer crosslinked templated silica aerogel under high-strain-rate compression. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2063-2074.	1.5	25
67	E-Glass-Polypropylene Pultruded Nanocomposite: Manufacture, Characterization, Thermal and Mechanical Properties. <i>Journal of Thermoplastic Composite Materials</i> , 2007, 20, 411-434.	2.6	23
68	Extension of the beam theory for polymer bio-transducers with low aspect ratios and viscoelastic characteristics. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 095016.	1.5	22
69	Polymer-Crosslinked Aerogels. , 2011, , 251-285.		22
70	Biocompatibility of surfactant-templated polyurea-nanoencapsulated macroporous silica aerogels with plasma platelets and endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1431-1439.	2.1	21
71	Nonlinearly Viscoelastic Nanoindentation of PMMA Under a Spherical Tip. <i>Experimental Mechanics</i> , 2013, 53, 731-742.	1.1	21
72	Micromachining of polyurea aerogel using femtosecond laser pulses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 186-193.	1.5	20

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73	Characterization of the viscoelastic behavior of bismaleimide resin before and after exposure to high temperatures. <i>Mechanics of Time-Dependent Materials</i> , 2013, 17, 369-399.	2.3	20
74	Characterization of the nonlinear elastic behavior of chinchilla tympanic membrane using micro-fringe projection. <i>Hearing Research</i> , 2016, 339, 1-11.	0.9	20
75	Effects of chemical versus enzymatic processing of kenaf fibers on poly(hydroxybutyrate-co-valerate)/poly(butylene adipate-co-terephthalate) composite properties. <i>Composites Part B: Engineering</i> , 2014, 56, 926-933.	5.9	19
76	Mechanical Characterization of Aerogels. , 2011, , 499-535.		19
77	Fabrication of SolâGel Materials with Anisotropic Physical Properties by Photo-Cross-Linking. <i>Chemistry of Materials</i> , 2009, 21, 2108-2114.	3.2	18
78	Fluorescent digital image correlation techniques in experimental mechanics. <i>Science China Technological Sciences</i> , 2018, 61, 21-36.	2.0	18
79	Material Characterization and Modeling of Single-Wall Carbon Nanotube/Polyelectrolyte Multilayer Nanocomposites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006, 73, 737-744.	1.1	17
80	Investigation of Cellular Contraction Forces in the Frequency Domain Using a PDMS Micropillar-Based Force Transducer. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 44-53.	1.7	17
81	Influence of nano-clay compounding on thermo-oxidative stability and mechanical properties of a thermoset polymer system. <i>Composites Science and Technology</i> , 2013, 84, 8-14.	3.8	17
82	Characterization of the Biocompatibility and Mechanical Properties of Polyurea Organic Aerogels with the Vascular System: Potential as a Blood Implantable Material. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 109-118.	1.8	17
83	On the measurements of viscoelastic functions of a sphere by nanoindentation. <i>Mechanics of Time-Dependent Materials</i> , 2010, 14, 1-24.	2.3	16
84	A novel numericalâexperimental approach for predicting delamination in high temperature polymer matrix composites. <i>Composite Structures</i> , 2013, 104, 118-124.	3.1	16
85	A multiscale model to study the enhancement in the compressive strength of multi-walled CNT sheet overwrapped carbon fiber composites. <i>Composite Structures</i> , 2019, 219, 170-178.	3.1	16
86	Modeling of Constitutive Behavior for Epon 828/T-403 at High Strain Rates. <i>Mechanics of Time-Dependent Materials</i> , 2001, 5, 119-129.	2.3	15
87	Sound Transmission Loss Enhancement in an InorganicâOrganic Laminated Wall Panel Using Multifunctional LowâDensity Nanoporous Polyurea Aerogels: Experiment and Modeling. <i>Advanced Engineering Materials</i> , 2018, 20, 1700937.	1.6	15
88	Controllable Preparation of Ordered and Hierarchically Buckled Structures for Inflatable Tumor Ablation, Volumetric Strain Sensor, and Communication via Inflatable Antenna. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10862-10873.	4.0	15
89	Meta-Aerogels: Auxetic Shape-Memory Polyurethane Aerogels. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5727-5738.	2.0	15
90	A comparison of Young's modulus for normal and diseased human eardrums at high strain rates. <i>International Journal of Experimental and Computational Biomechanics</i> , 2009, 1, 1.	0.4	14

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91	The effect of blast overpressure on the mechanical properties of a chinchilla tympanic membrane. <i>Hearing Research</i> , 2017, 354, 48-55.	0.9	13
92	Mechanical Properties of a Human Eardrum at High Strain Rates After Exposure to Blast Waves. <i>Journal of Dynamic Behavior of Materials</i> , 2016, 2, 59-73.	1.1	12
93	Burr Height in Shear Slitting of Aluminum Webs. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006, 128, 46-55.	1.3	11
94	Accelerated fatigue life testing of polycarbonate at low frequency under isothermal condition. <i>Polymer Testing</i> , 2008, 27, 114-121.	2.3	11
95	Characterization of the Physical Properties and Biocompatibility of Polybenzoxazine-Based Aerogels for Use as a Novel Hard-Tissue Scaffold. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, ahead-of-print, 1-14.	1.9	11
96	Isocyanate-Derived Organic Aerogels: Polyureas, Polyimides, Polyamides. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1306, 1.	0.1	10
97	The effect of blast overpressure on the mechanical properties of the human tympanic membrane. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103368.	1.5	10
98	Influence of residual stress and fluid-structure interaction on the impact behavior of fused filament fabrication components. <i>Additive Manufacturing</i> , 2021, 37, 101662.	1.7	10
99	Characteristics of accelerated lifetime behavior of polycarbonate under athermal and high loading frequency conditions. <i>Polymer Testing</i> , 2007, 26, 839-845.	2.3	9
100	Mapping the Young's modulus distribution of the human tympanic membrane by microindentation. <i>Hearing Research</i> , 2019, 378, 75-91.	0.9	9
101	ONR MURI Project on Soil Blast Modeling and Simulation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014, , 341-353.	0.3	9
102	Measuring the Young's Modulus Relaxation Modulus of PDMS Using Stress Relaxation Nanoindentation. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1222, 1.	0.1	8
103	Failure analysis of an aircraft APU exhaust duct flange due to low cycle fatigue at high temperatures. <i>Engineering Failure Analysis</i> , 2012, 20, 97-104.	1.8	8
104	Luminescent LaF3:Ce-doped organically modified nanoporous silica xerogels. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	8
105	Characterisation of the nonlinear elastic behaviour of guinea pig tympanic membrane using micro-fringe projection. <i>International Journal of Experimental and Computational Biomechanics</i> , 2015, 3, 319.	0.4	8
106	Edge Trimming of Aluminum Sheets Using Shear Slitting at a Rake Angle. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006, 128, 866-873.	1.3	7
107	Utilizing nanofabrication to construct strong, luminescent materials. <i>Nanotechnology</i> , 2006, 17, 2595-2601.	1.3	7
108	Detailed characterization of PBX morphology for mesoscale simulations. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	7

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109	Synthesis of aerogel foams through a pressurized sol-gel method. <i>Polymer</i> , 2020, 208, 122925.	1.8	7
110	Resonant Two-Photon Oxidation in Vanadium Oxyhydrate Nanowires above a Threshold Laser Intensity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10186-10192.	1.5	6
111	Effect of Particle Size on the Compressive Behavior of Dry Sand under Confinement at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013, , 523-530.	0.3	6
112	Metamaterial-like aerogels for broadband vibration mitigation. <i>Soft Matter</i> , 2021, 17, 4496-4503.	1.2	6
113	Effect of Moisture on the Compressive Behavior of Dense Eglin Sand Under Confinement at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014, , 381-388.	0.3	6
114	Multiphysics modeling of in situ integration of directed energy deposition with ultrasonic nanocrystal surface modification. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 5299-5310.	1.5	6
115	A novel tri-layer nanoindentation method to measure the mechanical properties of a porous brittle ultra-low-k dielectric thin film. <i>Extreme Mechanics Letters</i> , 2017, 13, 100-107.	2.0	5
116	Wrinkling of Tympanic Membrane Under Unbalanced Pressure. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, 0410021-410026.	1.1	5
117	Creep characterization of solder bumps using nanoindentation. <i>Mechanics of Time-Dependent Materials</i> , 2017, 21, 287-305.	2.3	5
118	Mechanical properties of the Papio anubis tympanic membrane: Change significantly from infancy to adulthood. <i>Hearing Research</i> , 2018, 370, 143-154.	0.9	5
119	Accelerated life prediction and testing of structural polymers under cyclic loading. , 2001, , 195-205.		3
120	Incremental Digital Volume Correlation for Large Deformation Measurement of PMI Foam in Compression. , 2012, , .		3
121	Fluxless Bonding Process Using Thermo-Compression Micro-Scrub for 61 Åµm Pitch SnAg Solder 3-D Interconnections. , 2016, , .		3
122	Structural response of 3D-printed rubber lattice structures under compressive fatigue. <i>MRS Communications</i> , 2021, 11, 168-172.	0.8	3
123	Simulation of surface asperities on a carbon fiber using molecular dynamics and fourier series decomposition to predict interfacial shear strength in polymer matrix composites. <i>Composite Interfaces</i> , 0, , 1-24.	1.3	3
124	One Pot Synthesis of Multifunctional Aramid Aerogels. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1403, 126.	0.1	2
125	From Flexible to Hard Polyurethane Aerogels: The Effect of Molecular Functionality vs. Molecular Rigidity. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1403, 114.	0.1	2
126	Highly Accurate 3D Shape and Deformation Measurements Using Fluorescent Stereo Microscopy. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 85-93.	0.3	2

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127	Correlation of Microscale Deformations to Macroscopic Mechanical Behavior Using Incremental Digital Volume Correlation of In-Situ Tomography. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 125-137.	0.3	2
128	High-Strain Rate Compressive Behavior of a "Natural Soil" Under Uniaxial Strain State. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 87-92.	0.3	2
129	Modeling the Compressive Buckling Strain as a Function of the Nanocomposite Interphase Thickness in a Carbon Nanotube Sheet Wrapped Carbon Fiber Composite. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	2
130	Constitutive behavior of granular materials under high rate of uniaxial strain loading. , 2022, , 99-124.		1
131	Machine learning based inverse modeling of full-field strain distribution for mechanical characterization of a linear elastic and heterogeneous membrane. Mechanics of Materials, 2022, 165, 104134.	1.7	1
132	Measurements of Viscoelastic Properties of SWNT/Polymer Composite Films Using Nanoindentation. Materials Research Society Symposia Proceedings, 2004, 841, R4.5.1.	0.1	0
133	Nano-Engineering Silica Aerogel Structure to Determine the Property-Structure Relationship. , 2009, , .		0
134	Forward: 6th international conference on mechanics of "time-dependent materials, Monterey, CA, March "April 4, 2008. Mechanics of Time-Dependent Materials, 2009, 13, 117-120.	2.3	0
135	Characterization on the Viscoelastic Property of PDMS in the Frequency Domain. Materials Research Society Symposia Proceedings, 2011, 1301, 285.	0.1	0
136	Jet rollable nanoimprint lithography with piezoelectric jetting of resist. , 2013, , .		0
137	A Multi-Scale Viscoelastic Cohesive Layer Model for Predicting Delamination in HTPMC. , 2014, , .		0
138	Tri-layer nanoindentation for mechanical characterization of ultra-low-k dielectrics. , 2017, , .		0
139	Predicting the enhancement in the compressive strength of Carbon Fiber Reinforced Polymer Composites by overwrapping Multiwalled Carbon Nanotubes using a Multiscale Approach. , 2018, , .		0
140	Nonlinear dynamic response and global stability of an air compressor vibration system. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1081-1095.	1.3	0
141	Biocompatibility of crosslinked aerogels of variable densities with blood platelets and vascular endothelial cells. FASEB Journal, 2010, 24, 779.1.	0.2	0
142	Characterization of the Nonlinear Elastic Behavior of Chinchilla Tympanic Membrane Using Micro-fringe Projection. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 219-224.	0.3	0
143	Measurement of the Viscoelastic Properties of the Chinchilla Tympanic Membrane. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 25-34.	0.3	0
144	Investigating the Geometry and Mechanical Properties of Human Round Window Membranes Using Micro-Fringe Projection. Otology and Neurotology, 2021, 42, 319-326.	0.7	0