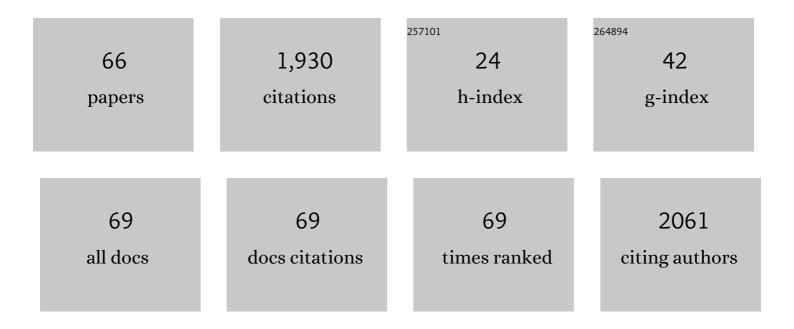
Junlan Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Engineering the Interface: Effects of Interfacial Adhesion and Substrate Thickness on the Ductility of Polymer-supported Metal Films. Experimental Mechanics, 2022, 62, 49-58.	1.1	5
2	Effect of pulse duration and confinement on laser-induced stress waves for high strain-rate material testing. Optics and Lasers in Engineering, 2022, 151, 106919.	2.0	1
3	Microstructure, mechanical properties and elemental composition of the terrestrial isopod Armadillidium vulgare cuticle. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 132, 105299.	1.5	2
4	All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. Energy and Environmental Science, 2021, 14, 5044-5056.	15.6	41
5	Evolution of the Laser-Induced Spallation Technique in Film Adhesion Measurement. Applied Mechanics Reviews, 2021, 73, 030802.	4.5	26
6	Effect of annealing process on mechanical properties of n-type La1.9Ce0.1CuO4 superconducting films by depth sensing nanoindentation. Materials Research Express, 2019, 6, 056418.	0.8	0
7	Residual Stresses in Cu/Ni Multilayer Thin Films Measured Using the Sin2ľ^ Method. Experimental Mechanics, 2019, 59, 111-120.	1.1	14
8	Optical properties of VO ₂ thin films deposited on different glass substrates. Optical Materials Express, 2019, 9, 663.	1.6	20
9	The limiting layer of fish scales: Structure and properties. Acta Biomaterialia, 2018, 67, 319-330.	4.1	53
10	Coupled annealing temperature and layer thickness effect on strengthening mechanisms of Ti/Ni multilayer thin films. Journal of the Mechanics and Physics of Solids, 2016, 88, 72-82.	2.3	28
11	Laser-Induced Spallation of Microsphere Monolayers. Langmuir, 2016, 32, 7730-7734.	1.6	4
12	Multilayer ITO/VO 2 /TiO 2 thin films for control of solar and thermal spectra. Solar Energy Materials and Solar Cells, 2016, 154, 88-93.	3.0	29
13	High Strain-Rate Ductile to Brittle Transition in Nanoporous Zeolite. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 129-139.	0.3	0
14	Microstructural evolution and surface strengthening of pulse-laser treated Ti/Ni multilayer thin films. Extreme Mechanics Letters, 2015, 4, 45-51.	2.0	10
15	Influence of grain size on transition temperature of thermochromic VO2. Journal of Applied Physics, 2015, 117, .	1.1	82
16	Influence of Na diffusion on thermochromism of vanadium oxide films and suppression through mixed-alkali effect. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 200, 50-58.	1.7	15
17	Orientation-Dependent Hardness in As-Deposited and Low-Temperature Annealed Ti/Ni Multilayer Thin Films. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	1.1	13
18	Coupled effects of deposition and annealing temperatures on optical, electrical and mechanical properties of titanium oxide thin films. Vacuum, 2015, 120, 155-161.	1.6	11

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19	Laser-induced surface acoustic waves: An alternative method to nanoindentation for the mechanical characterization of porous nanostructured thin film electrode media. Mechanics of Materials, 2015, 91, 333-342.	1.7	26
20	Correlation Between Laser-Induced Surface Acoustic Waves and Nanoindentation on Elastic Modulus Measurement of a Nanoporous Zeolite Thin Film. Experimental Mechanics, 2015, 55, 647-650.	1.1	7
21	Microstructure and Mechanical Anisotropy of Crab Cancer Magister Exoskeletons. Experimental Mechanics, 2014, 54, 229-239.	1.1	16
22	A Force Domain Analog-to-Digital Converter Applied to Microscale Tensile Test. Experimental Mechanics, 2013, 53, 795-806.	1.1	6
23	Molecular dynamics simulation of thin film interfacial strength dependency on lattice mismatch. Thin Solid Films, 2013, 537, 190-197.	0.8	17
24	Optical properties of super stoichiometric TiN1+x thin films. Thin Solid Films, 2012, 524, 272-277.	0.8	7
25	Bioactive Materials for Regenerative Medicine: Zeoliteâ€Hydroxyapatite Bone Mimetic Coatings. Advanced Engineering Materials, 2012, 14, 200-206.	1.6	30
26	Zeolite as a wear-resistant coating. Microporous and Mesoporous Materials, 2012, 151, 346-351.	2.2	23
27	Insight into On-Wafer Crystallization of Pure-Silica-Zeolite Films through Nutrient Replenishment. Langmuir, 2011, 27, 3283-3285.	1.6	4
28	Microstructure and Mechanical Properties of Dungeness Crab Exoskeletons. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 93-99.	0.3	3
29	An overview of interface-dominated deformation mechanisms in metallic multilayers. Current Opinion in Solid State and Materials Science, 2011, 15, 20-28.	5.6	390
30	Thermal fracture of oxidized polydimethylsiloxane during soft lithography of nanopost arrays. Journal of Micromechanics and Microengineering, 2011, 21, 054013.	1.5	34
31	Finite element simulation of cell–substrate decohesion by laser-induced stress waves. Journal of the Mechanical Behavior of Biomedical Materials, 2010, 3, 268-277.	1.5	18
32	Pure-Silica-Zeolite Low-Dielectric Constant Materials. , 2009, , 335-364.		2
33	Engineering size-scaling of plastic deformation in nanoscale asperities. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9580-9585.	3.3	21
34	Onâ€Wafer Crystallization of Ultralowâ€ <i>κ</i> Pure Silica Zeolite Films. Angewandte Chemie - International Edition, 2009, 48, 4777-4780.	7.2	30
35	Mechanical behavior of Au–In intermetallics for low temperature solder diffusion bonding. Journal of Materials Science, 2009, 44, 6155-6161.	1.7	18
36	High strain-rate spallation and fracture of tungsten by laser-induced stress waves. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 504, 73-80.	2.6	24

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37	Sample boundary effect in nanoindentation of nano and microscale surface structures. Journal of the Mechanics and Physics of Solids, 2009, 57, 812-827.	2.3	17
38	Hydrofluoric-Acid-Resistant and Hydrophobic Pure-Silica-Zeolite MEL Low-Dielectric-Constant Films. Langmuir, 2009, 25, 5039-5044.	1.6	18
39	Numerical simulation of laser-induced thin film delamination. Thin Solid Films, 2008, 516, 971-981.	0.8	15
40	MELâ€ŧype Pure‣ilica Zeolite Nanocrystals Prepared by an Evaporationâ€Assisted Two‣tage Synthesis Method as Ultra‣owâ€ <i>k</i> Materials. Advanced Functional Materials, 2008, 18, 1732-1738.	7.8	39
41	Pureâ€Silicaâ€Zeolite MFI and MEL Lowâ€Dielectricâ€Constant Films with Fluoroâ€Organic Functionalization. Advanced Functional Materials, 2008, 18, 3454-3460.	7.8	68
42	Hydrophobicity-dependent friction and wear of spin-on zeolite thin films. Scripta Materialia, 2008, 58, 41-44.	2.6	13
43	Pressure and Temperature Effects on Stoichiometry and Microstructure of Nitrogen-Rich TiN Thin Films Synthesized via Reactive Magnetron DC-Sputtering. Journal of Nanomaterials, 2008, 2008, 1-9.	1.5	26
44	Nanomechanics and Nanostructured Multifunctional Materials: Experiments, Theories, and Simulations. Journal of Nanomaterials, 2008, 2008, 1-1.	1.5	3
45	Effect of calcination and polycrystallinity on mechanical properties of nanoporous MFI zeolites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 58-63.	2.6	21
46	Grain size and grain boundary effects on the mechanical behavior of fully stabilized zirconia investigated by nanoindentation. Scripta Materialia, 2007, 56, 1095-1098.	2.6	54
47	Mechanical characterization of zeolite low dielectric constant thin films by nanoindentation. Thin Solid Films, 2007, 515, 3164-3170.	0.8	56
48	Design and Analysis of a MEMS Based Auto-Focusing System. , 2007, , .		0
49	Size effect in contact compression of nano- and microscale pyramid structures. Acta Materialia, 2006, 54, 3973-3982.	3.8	30
50	Surface Residual Stress Measurement Using Curvature Interferometry. Experimental Mechanics, 2006, 46, 39-46.	1.1	27
51	Pure-shear Failure of Thin Films by Laser-induced Shear Waves. Experimental Mechanics, 2006, 46, 637-645.	1.1	19
52	Mechanical and Dielectric Properties of Pure-Silica-Zeolite Low-k Materials. Angewandte Chemie - International Edition, 2006, 45, 6329-6332.	7.2	136
53	Interfacial adhesion of nanoporous zeolite thin films. Journal of Materials Research, 2006, 21, 505-511.	1.2	18
54	Cell adhesion measurement by laser-induced stress waves. Journal of Applied Physics, 2006, 100, 084701.	1.1	31

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55	Pulsed-laser induced shock wave in fused silica for thin film interfacial testing. , 2005, , .		0
56	Interfacial Adhesion of Pure-Silica-Zeolite Low-k Thin Films. Materials Research Society Symposia Proceedings, 2005, 875, 1.	0.1	0
57	Tensile and mixed-mode strength of a thin film-substrate interface under laser induced pulse loading. Journal of the Mechanics and Physics of Solids, 2004, 52, 999-1022.	2.3	50
58	Interfacial Adhesion of Nanoporous Zeolite Thin Films. , 2004, , .		0
59	Mixed-mode failure of thin films using laser-generated shear waves. Experimental Mechanics, 2003, 43, 323-330.	1.1	31
60	Dislocation Nucleation and Segregation in Nano-scale Contact of Stepped Surfaces. Materials Research Society Symposia Proceedings, 2003, 795, 39.	0.1	5
61	Laser-induced decompression shock development in fused silica. Journal of Applied Physics, 2003, 93, 9529-9536.	1.1	41
62	A Novel Technique for Mixed-mode Thin Film Adhesion Measurement. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	3
63	A parametric study of laser induced thin film spallation. Experimental Mechanics, 2002, 42, 74-83.	1.1	107
64	A parametric study of laser induced thin film spallation. , 2002, 42, 74.		22
65	Point-wise and whole-field laser speckle intensity fluctuation measurements applied to botanical specimens. Optics and Lasers in Engineering, 1997, 28, 443-456.	2.0	20
66	Correction to: Residual Stresses in Cu/Ni Multilayer Thin Films Measured Using the Sin2Ï^ Method. Experimental Mechanics, 0, , .	1.1	0