Hong-hui Yu

List of Publications by Year in Descending Order

42 papers	1,073 citations	17 h-index	32 g-index
43 ext. papers	1,199 ext. citations	4 avg, IF	4.31 L-index

#	Paper	IF	Citations
42	Impact-induced bubble interactions and coalescence in soft materials. *International Journal of Solids and Structures*, **2022**, 238, 111387	3.1	0
41	Stretch induced thermal conduction anisotropy of hydrogel. *International Journal of Heat and Mass Transfer*, **2022**, 185, 122445	4.9	0
40	Modeling transport of soft particles in porous media. *Physical Review E*, **2021**, 104, 025112	2.4	2
39	Understanding transport of an elastic, spherical particle through a confining channel. *Applied Physics Letters*, **2020**, 116, 103705	3.4	4
38	Failure criterion for highly stretchable elastomers under triaxial loading. *Extreme Mechanics Letters*, **2020**, 35, 100645	3.9	1
37	Size-dependent inertial cavitation of soft materials. *Journal of the Mechanics and Physics of Solids*, **2020**, 137, 103859	5	6
36	A constitutive model for multi network elastomers pre-stretched by swelling. *Extreme Mechanics Letters*, **2020**, 40, 100926	3.9	11
35	Ultrastretchable and conductive core/sheath hydrogel fibers with multifunctionality. *Journal of Polymer Science, Part B: Polymer Physics*, **2019**, 57, 272-280	2.6	15
34	A physically-based damage model for soft elastomeric materials with anisotropic Mullins effect. *International Journal of Solids and Structures*, **2019**, 176-177, 121-134	3.1	30
33	A physically based visco-hyperelastic constitutive model for soft materials. *Journal of the Mechanics and Physics of Solids*, **2019**, 128, 208-218	5	37
32	Energy-Based Strength Theory for Soft Elastic Membranes. *Journal of Applied Mechanics, Transactions ASME*, **2019**, 86,	2.7	4
31	Ductile Ice Frozen hydrogels with high ductility and compressive yielding strength. *Extreme Mechanics Letters*, **2019**, 28, 43-49	3.9	5
30	Effect of Partition on the Mechanical Behaviors of Soft Adhesive Layers. *Journal of Applied Mechanics, Transactions ASME*, **2019**, 86,	2.7	6
29	Failure of soft dielectric membrane with a hole subjected to mechanical and electric loads. *International Journal of Non-Linear Mechanics*, **2019**, 117, 103243	2.8	
28	Puncture mechanics of soft elastomeric membrane with large deformation by rigid cylindrical indenter. *Journal of the Mechanics and Physics of Solids*, **2018**, 112, 458-471	5	14
27	Stretch tuning of the Debye ring for 2D photonic crystals on a dielectric elastomer membrane. *Soft Matter*, **2018**, 14, 1120-1129	3.6	13
26	A general constitutive model of soft elastomers. *Journal of the Mechanics and Physics of Solids*, **2018**, 117, 110-122	5	56

25	Soft Display Using Photonic Crystals on Dielectric Elastomers. *ACS Applied Materials & Interfaces*, **2018**, 10, 24758-24766	9.5	32
24	Two Possible Defect Growth Modes in Soft Solids. *Journal of Applied Mechanics, Transactions ASME*, **2018**, 85,	2.7	8
23	Boundary integral equations for 2D elasticity and its application in discrete dislocation simulation in finite body: 2. Numerical implementation. *International Journal of Solids and Structures*, **2014**, 51, 680-689	3.1	
22	Active Shape Control and Phase Coexistence of Dielectric Elastomer Membrane With Patterned Electrodes. *Journal of Applied Mechanics, Transactions ASME*, **2014**, 81,	2.7	16
21	Boundary integral equations for 2D elasticity and its application in discrete dislocation dynamics simulation in finite body: 1. General theory. *International Journal of Solids and Structures*, **2014**, 51, 673-679	3.1	1
20	Stress relaxation of thin film due to coupled surface and grain boundary diffusion. *Thin Solid Films*, **2010**, 518, 5777-5785	2.2	4
19	Effect of mechanical stress on the kinetics of heterogeneous electron transfer. *Langmuir*, **2008**, 24, 9941-44	4	24
18	Micro-plasticity of surface steps under adhesive contact: Part II. Multiple-dislocation mediated contact hardening. *Journal of the Mechanics and Physics of Solids*, **2008**, 56, 2759-2772	5	8
17	Micro-plasticity of surface steps under adhesive contact: Part I. Surface yielding controlled by single-dislocation nucleation. *Journal of the Mechanics and Physics of Solids*, **2007**, 55, 489-516	5	25
16	Buckling modes of elastic thin films on elastic substrates. *Applied Physics Letters*, **2007**, 90, 151902	3.4	151
15	A numerical study on the effect of mobilities and initial profile in thin film morphology evolution. *Thin Solid Films*, **2006**, 513, 391-398	2.2	9
14	Crack nucleation from a single notch caused by stress-dependent surface reactions. *International Journal of Solids and Structures*, **2005**, 42, 3852-3866	3.1	7
13	The asymmetric effect of stress in the morphological instability of a growing thin film. *Modelling and Simulation in Materials Science and Engineering*, **2005**, 13, 797-808	2	1
12	Delamination of thin film strips. *Thin Solid Films*, **2003**, 423, 54-63	2.2	53
11	Influence of substrate compliance on buckling delamination of thin films. *International Journal of Fracture*, **2002**, 113, 39-55	2.3	138
10	Edge effects in thin film delamination. *Acta Materialia*, **2001**, 49, 93-107	8.4	144
9	Stress-dependent surface reactions and implications for a stress measurement technique. *Journal of Applied Physics*, **2000**, 87, 1211-1218	2.5	54
8	Intersonic crack growth on an interface. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2000**, 456, 223-246	2.4	24

7	An axisymmetric model of pore-grain boundary separation. *Journal of the Mechanics and Physics of Solids*, **1999**, 47, 1131-1155	5	39
6	A model of wafer bonding by elastic accommodation. *Journal of the Mechanics and Physics of Solids*, **1998**, 46, 829-844	5	50
5	Delayed fracture of ceramics caused by stress-dependent surface reactions. *Acta Materialia*, **1998**, 47, 77-88	8.4	18
4	Crack nucleation on an elastic polycrystal surface in a corrosive environment: Low dimensional dynamical models. *Acta Materialia*, **1997**, 45, 2235-2245	8.4	3
3	Damage nucleation during electromigration along an isolated interface in an elastic medium. *Journal of the Mechanics and Physics of Solids*, **1996**, 44, 371-387	5	9
2	Mechanics of transonic debonding of a bimaterial interface: The in-plane case. *Journal of the Mechanics and Physics of Solids*, **1995**, 43, 207-232	5	25
1	Mechanics of transonic debonding of a bimaterial interface: The anti-plane shear case. *Journal of the Mechanics and Physics of Solids*, **1994**, 42, 1789-1802	5	26