

# Hong-hui Yu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Buckling modes of elastic thin films on elastic substrates. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 151902	3.4	151
41	Edge effects in thin film delamination. <i>Acta Materialia</i> , <b>2001</b> , 49, 93-107	8.4	144
40	Influence of substrate compliance on buckling delamination of thin films. <i>International Journal of Fracture</i> , <b>2002</b> , 113, 39-55	2.3	138
39	A general constitutive model of soft elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2018</b> , 117, 110-122	5	56
38	Stress-dependent surface reactions and implications for a stress measurement technique. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 1211-1218	2.5	54
37	Delamination of thin film strips. <i>Thin Solid Films</i> , <b>2003</b> , 423, 54-63	2.2	53
36	A model of wafer bonding by elastic accommodation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1998</b> , 46, 829-844	5	50
35	An axisymmetric model of pore-grain boundary separation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1999</b> , 47, 1131-1155	5	39
34	A physically based visco-hyperelastic constitutive model for soft materials. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 128, 208-218	5	37
33	Soft Display Using Photonic Crystals on Dielectric Elastomers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24758-24766	9.5	32
32	A physically-based damage model for soft elastomeric materials with anisotropic Mullins effect. <i>International Journal of Solids and Structures</i> , <b>2019</b> , 176-177, 121-134	3.1	30
31	Mechanics of transonic debonding of a bimaterial interface: The anti-plane shear case. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1994</b> , 42, 1789-1802	5	26
30	Micro-plasticity of surface steps under adhesive contact: Part I Surface yielding controlled by single-dislocation nucleation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2007</b> , 55, 489-516	5	25
29	Mechanics of transonic debonding of a bimaterial interface: The in-plane case. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1995</b> , 43, 207-232	5	25
28	Effect of mechanical stress on the kinetics of heterogeneous electron transfer. <i>Langmuir</i> , <b>2008</b> , 24, 9941-9944	4.4	24
27	Intersonic crack growth on an interface. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2000</b> , 456, 223-246	2.4	24
26	Delayed fracture of ceramics caused by stress-dependent surface reactions. <i>Acta Materialia</i> , <b>1998</b> , 47, 77-88	8.4	18

25	Active Shape Control and Phase Coexistence of Dielectric Elastomer Membrane With Patterned Electrodes. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2014</b> , 81,	2.7	16
24	Ultrastretchable and conductive core/sheath hydrogel fibers with multifunctionality. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 272-280	2.6	15
23	Puncture mechanics of soft elastomeric membrane with large deformation by rigid cylindrical indenter. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2018</b> , 112, 458-471	5	14
22	Stretch tuning of the Debye ring for 2D photonic crystals on a dielectric elastomer membrane. <i>Soft Matter</i> , <b>2018</b> , 14, 1120-1129	3.6	13
21	A constitutive model for multi network elastomers pre-stretched by swelling. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 40, 100926	3.9	11
20	A numerical study on the effect of mobilities and initial profile in thin film morphology evolution. <i>Thin Solid Films</i> , <b>2006</b> , 513, 391-398	2.2	9
19	Damage nucleation during electromigration along an isolated interface in an elastic medium. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1996</b> , 44, 371-387	5	9
18	Micro-plasticity of surface steps under adhesive contact: Part II Multiple-dislocation mediated contact hardening. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 2759-2772	5	8
17	Two Possible Defect Growth Modes in Soft Solids. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2018</b> , 85,	2.7	8
16	Crack nucleation from a single notch caused by stress-dependent surface reactions. <i>International Journal of Solids and Structures</i> , <b>2005</b> , 42, 3852-3866	3.1	7
15	Effect of Partition on the Mechanical Behaviors of Soft Adhesive Layers. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86,	2.7	6
14	Size-dependent inertial cavitation of soft materials. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 137, 103859	5	6
13	Ductile Ice-Frozen hydrogels with high ductility and compressive yielding strength. <i>Extreme Mechanics Letters</i> , <b>2019</b> , 28, 43-49	3.9	5
12	Energy-Based Strength Theory for Soft Elastic Membranes. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86,	2.7	4
11	Understanding transport of an elastic, spherical particle through a confining channel. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 103705	3.4	4
10	Stress relaxation of thin film due to coupled surface and grain boundary diffusion. <i>Thin Solid Films</i> , <b>2010</b> , 518, 5777-5785	2.2	4
9	Crack nucleation on an elastic polycrystal surface in a corrosive environment: Low dimensional dynamical models. <i>Acta Materialia</i> , <b>1997</b> , 45, 2235-2245	8.4	3
8	Modeling transport of soft particles in porous media. <i>Physical Review E</i> , <b>2021</b> , 104, 025112	2.4	2

- 7 Failure criterion for highly stretchable elastomers under triaxial loading. *Extreme Mechanics Letters*, **2020**, 35, 100645 3.9 1
- 6 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
- 5 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
- 4 Impact-induced bubble interactions and coalescence in soft materials. *International Journal of Solids and Structures*, **2022**, 238, 111387 3.1 0
- 3 Stretch induced thermal conduction anisotropy of hydrogel. *International Journal of Heat and Mass Transfer*, **2022**, 185, 122445 4.9 0
- 2 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
- 1 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