

Chung-Yuen Hui

List of Publications by Year in Descending Order

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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.

307
papers

10,480
citations

54
h-index

88
g-index

313
ext. papers

11,412
ext. citations

4.2
avg, IF

6.39
L-index

#	Paper	IF	Citations
307	Lubricated Sliding of a Rigid Cylinder on a Viscoelastic Half Space. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	3
306	Increased Sliding Friction of a Lubricated Soft Solid Using an Embedded Structure. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	1
305	Steady state crack growth in viscoelastic solids: A comparative study. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 159, 104748	5	2
304	Effects of Hydration on the Mechanical Response of a PVA Hydrogel. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 73-78	0.3	
303	Gaussian Process to Identify Hydrogel Constitutive Model. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 79-83	0.3	
302	Enhancement of hydrodynamic friction by periodic variation of contact stiffness. <i>Extreme Mechanics Letters</i> , 2022 , 101735	3.9	0
301	Dynamics of Hydrogels with a Variable Ratio of Permanent and Transient Cross-Links: Constitutive Model and Its Molecular Interpretation. <i>Macromolecules</i> , 2022 , 55, 3550-3562	5.5	
300	How chain dynamics affects crack initiation in double-network gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
299	Physically motivated models of polymer networks with dynamic cross-links: comparative study and future outlook. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477,	2.4	2
298	Metamodeling of constitutive model using Gaussian process machine learning. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 154, 104532	5	2
297	A clean cut. <i>Extreme Mechanics Letters</i> , 2021 , 46, 101343	3.9	0
296	The Fracture of Highly Deformable Soft Materials: A Tale of Two Length Scales. <i>Annual Review of Condensed Matter Physics</i> , 2021 , 12, 71-94	19.7	39
295	Constitutive modeling of strain-dependent bond breaking and healing kinetics of chemical polyampholyte (PA) gel. <i>Soft Matter</i> , 2021 , 17, 4161-4169	3.6	2
294	Friction Force During Lubricated Steady Sliding of a Rigid Cylinder on a Viscoelastic Substrate. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	3
293	Constitutive modeling of bond breaking and healing kinetics of physical Polyampholyte (PA) gel. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101184	3.9	5
292	Meso-scale dislocations and friction of shape-complementary soft interfaces. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200940	4.1	1
291	Effect of drying on the viscoelastic response of a dual-crosslinked PVA hydrogel. <i>Mechanics of Materials</i> , 2021 , 160, 103984	3.3	1

290	Energetics of cracks and defects in soft materials: The role of surface stress. <i>Extreme Mechanics Letters</i> , 2021 , 48, 101424	3.9	0
289	A surface flattening method for characterizing the surface stress, drained Poisson's ratio and diffusivity of poroelastic gels. <i>Soft Matter</i> , 2021 , 17, 7332-7340	3.6	2
288	How surface stress transforms surface profiles and adhesion of rough elastic bodies. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200477	2.4	3
287	Time dependent fracture of soft materials: linear versus nonlinear viscoelasticity. <i>Soft Matter</i> , 2020 , 16, 6163-6179	3.6	10
286	Extreme cavity expansion in soft solids: Damage without fracture. <i>Science Advances</i> , 2020 , 6, eaaz0418	14.3	28
285	Modeling of surface mechanical behaviors of soft elastic solids: theory and examples. <i>Soft Matter</i> , 2020 , 16, 6875-6889	3.6	6
284	Fiber-Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. <i>Advanced Materials</i> , 2020 , 32, e1907180	24	35
283	Droplets on an elastic membrane: Configurational energy balance and modified Young equation. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 138, 103902	5	10
282	Lubricated steady sliding of a rigid sphere on a soft elastic substrate: hydrodynamic friction in the Hertz limit. <i>Soft Matter</i> , 2020 , 16, 2760-2773	3.6	9
281	Mechanical behavior of unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100642	3.9	7
280	Enhancement of elastohydrodynamic friction by elastic hysteresis in a periodic structure. <i>Soft Matter</i> , 2020 , 16, 1627-1635	3.6	7
279	The surface stress of biomedical silicones is a stimulant of cellular response. <i>Science Advances</i> , 2020 , 6, eaay0076	14.3	12
278	Coupled flow and deformation fields due to a line load on a poroelastic half space: effect of surface stress and surface bending. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20190761	2.4	5
277	Effect of elastocapillarity on the swelling kinetics of hydrogels. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 145, 104132	5	8
276	Energy release rate of a single edge cracked specimen subjected to large deformation. <i>International Journal of Fracture</i> , 2020 , 226, 71-79	2.3	4
275	Crack propagation in a PVA dual-crosslink hydrogel: Crack tip fields measured using digital image correlation. <i>Mechanics of Materials</i> , 2019 , 138, 103158	3.3	8
274	Crack propagation pattern and trapping mechanism of rolling a rigid cylinder on a periodically structured surface. <i>Extreme Mechanics Letters</i> , 2019 , 29, 100475	3.9	5
273	Superior fracture resistance of fiber reinforced polyampholyte hydrogels achieved by extraordinarily large energy-dissipative process zones. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13431-13440	13.4	26

272	Crack tip stress based kinetic fracture model of a PVA dual-crosslink hydrogel. <i>Extreme Mechanics Letters</i> , 2019 , 29, 100457	3.9	13
271	A surface with stress, extensional elasticity, and bending stiffness. <i>Soft Matter</i> , 2019 , 15, 3817-3827	3.6	10
270	Mechanics of zero degree peel test on a tape Effects of large deformation, material nonlinearity, and finite bond length. <i>Extreme Mechanics Letters</i> , 2019 , 32, 100518	3.9	11
269	The stress field near the tip of a plane stress crack in a gel consisting of chemical and physical cross-links. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180863	2.4	4
268	Size effect on elastic stress concentrations in unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2019 , 33, 100573	3.9	13
267	Effects of strain-dependent surface stress on the adhesive contact of a rigid sphere to a compliant substrate. <i>Soft Matter</i> , 2019 , 15, 2223-2231	3.6	8
266	Mechanical stress compromises multicomponent efflux complexes in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25462-25467	11.5	9
265	Time-Temperature Mechanical Response of a PVA Dual Cross-Link Self-Healing Hydrogel. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 23-27	0.3	
264	Finite strain theory of a Mode III crack in a rate dependent gel consisting of chemical and physical cross-links. <i>International Journal of Fracture</i> , 2019 , 215, 77-89	2.3	7
263	Effect of large deformation and surface stiffening on the transmission of a line load on a neo-Hookean half space. <i>Soft Matter</i> , 2018 , 14, 1847-1855	3.6	17
262	Indentation versus Rolling: Dependence of Adhesion on Contact Geometry for Biomimetic Structures. <i>Langmuir</i> , 2018 , 34, 3827-3837	4	7
261	Fracture mechanics of a self-healing hydrogel with covalent and physical crosslinks: A numerical study. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 120, 79-95	5	27
260	Friction of Poroelastic Contacts with Thin Hydrogel Films. <i>Langmuir</i> , 2018 , 34, 9617-9626	4	18
259	The effect of surface bending and surface stress on the transmission of a vertical line force in soft materials. <i>Extreme Mechanics Letters</i> , 2018 , 23, 9-16	3.9	3
258	Effect of surface bending and stress on the transmission of line force to an elastic substrate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170775	2.4	3
257	Mechanics of an adhesive tape in a zero degree peel test: effect of large deformation and material nonlinearity. <i>Soft Matter</i> , 2018 , 14, 9681-9692	3.6	14
256	Time-temperature equivalence in a PVA dual cross-link self-healing hydrogel. <i>Journal of Rheology</i> , 2018 , 62, 991-1000	4.1	22
255	Spontaneous Droplet Motion on a Periodically Compliant Substrate. <i>Langmuir</i> , 2017 , 33, 4942-4947	4	12

254	A closed form large deformation solution of plate bending with surface effects. <i>Soft Matter</i> , 2017 , 13, 386-393	3.6	8
253	Interaction of Droplets Separated by an Elastic Film. <i>Langmuir</i> , 2017 , 33, 75-81	4	8
252	Elastocapillarity: Surface Tension and the Mechanics of Soft Solids. <i>Annual Review of Condensed Matter Physics</i> , 2017 , 8, 99-118	19.7	166
251	Adhesion Enhancement of a Gel-Elastomer Interface by Shape Complementarity. <i>Biologically-inspired Systems</i> , 2017 , 291-301	0.7	1
250	Adhesion and Friction Enhancement of Film-Terminated Structures against Rough Surfaces. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	5
249	Elastocapillary levelling of thin viscous films on soft substrates. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	12
248	Fibrous nonlinear elasticity enables positive mechanical feedback between cells and ECMs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14043-14048	11.5	181
247	Fracture toughness of hydrogels: measurement and interpretation. <i>Soft Matter</i> , 2016 , 12, 8069-8086	3.6	111
246	Force sensing using 3D displacement measurements in linear elastic bodies. <i>Computational Mechanics</i> , 2016 , 58, 91-105	4	4
245	Large deformation effect in Mode I crack opening displacement of an Agar gel: A comparison of experiment and theory. <i>Extreme Mechanics Letters</i> , 2016 , 9, 66-73	3.9	14
244	How does surface tension affect energy release rate of cracks loaded in Mode I?. <i>Extreme Mechanics Letters</i> , 2016 , 6, 31-36	3.9	10
243	Fracture of dual crosslink gels with permanent and transient crosslinks. <i>Extreme Mechanics Letters</i> , 2016 , 6, 52-59	3.9	65
242	Effect of surface tension on the relaxation of a viscoelastic half-space perturbed by a point load. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 274-280	2.6	6
241	Wetting of a partially immersed compliant rod. <i>Journal of Applied Physics</i> , 2016 , 120, 195301	2.5	2
240	Strongly Modulated Friction of a Film-Terminated Ridge-Channel Structure. <i>Scientific Reports</i> , 2016 , 6, 26867	4.9	11
239	Geometry of defects at shape-complementary soft interfaces. <i>Extreme Mechanics Letters</i> , 2016 , 9, 74-83	3.9	1
238	Surface tension measurement from the indentation of clamped thin films. <i>Soft Matter</i> , 2016 , 12, 5121-6	3.6	15
237	Mechanics of a Dual Cross-Link Gel with Dynamic Bonds: Steady State Kinetics and Large Deformation Effects. <i>Macromolecules</i> , 2016 , 49, 3497-3507	5.5	59

236	Skin stretching by a balloon tissue expander: Interplay between contact mechanics and skin growth. <i>Extreme Mechanics Letters</i> , 2016 , 9, 175-187	3.9	5
235	Effect of surface tension on the adhesion between a rigid flat punch and a semi-infinite neo-Hookean half-space. <i>Extreme Mechanics Letters</i> , 2016 , 9, 310-316	3.9	13
234	Coarse-Grained Model of SNARE-Mediated Docking. <i>Biophysical Journal</i> , 2015 , 108, 2258-69	2.9	10
233	Indentation of a rigid sphere into an elastic substrate with surface tension and adhesion. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20140727 ²⁻⁴		54
232	A continuum model of docking of synaptic vesicle to plasma membrane. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141119	4.1	2
231	Adhesive contact of a rigid circular cylinder to a soft elastic substrate--the role of surface tension. <i>Soft Matter</i> , 2015 , 11, 3844-51	3.6	22
230	Rheology of a dual crosslink self-healing gel: Theory and measurement using parallel-plate torsional rheometry. <i>Journal of Rheology</i> , 2015 , 59, 643-665	4.1	41
229	Planar equilibrium shapes of a liquid drop on a membrane. <i>Soft Matter</i> , 2015 , 11, 8960-7	3.6	25
228	Deformation of a Solid Film with Surface Tension by a Liquid Drop. <i>Procedia IUTAM</i> , 2015 , 12, 116-123		8
227	Coarse-Grained Model of the Snare Complex Determines the Number of Snares Required for Docking. <i>Biophysical Journal</i> , 2015 , 108, 154a	2.9	3
226	Crack tip fields in soft elastic solids subjected to large quasi-static deformation – A review. <i>Extreme Mechanics Letters</i> , 2015 , 4, 131-155	3.9	78
225	Enhancement of Friction against a Rough Surface by a Ridge-Channel Surface Microstructure. <i>Langmuir</i> , 2015 , 31, 7581-9	4	4
224	Flattening of a patterned compliant solid by surface stress. <i>Soft Matter</i> , 2014 , 10, 4084-90	3.6	45
223	Frictional auto-roughening of a surface with spatially varying stiffness. <i>Soft Matter</i> , 2014 , 10, 2169-77	3.6	8
222	Effects of surface tension on the adhesive contact of a rigid sphere to a compliant substrate. <i>Soft Matter</i> , 2014 , 10, 4625-32	3.6	66
221	The energy release rate of a pressurized crack in soft elastic materials: effects of surface tension and large deformation. <i>Soft Matter</i> , 2014 , 10, 7723-9	3.6	24
220	Time Dependent Behavior of a Dual Cross-Link Self-Healing Gel: Theory and Experiments. <i>Macromolecules</i> , 2014 , 47, 7243-7250	5.5	138
219	Nonlinear viscoelastic contact mechanics of long rectangular membranes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140528	2.4	6

218	Deformation near a liquid contact line on an elastic substrate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140085	2.4	35
217	An adaptive algorithm for tracking 3D bead displacements: application in biological experiments. <i>Measurement Science and Technology</i> , 2014 , 25,	2	10
216	Toward single cell traction microscopy within 3D collagen matrices. <i>Experimental Cell Research</i> , 2013 , 319, 2396-408	4.2	66
215	Surface tension, surface energy, and chemical potential due to their difference. <i>Langmuir</i> , 2013 , 29, 11310-6	4.6	32
214	In situ measurement of the viscoelastic modulus of gels using pure twist-theory. <i>Soft Matter</i> , 2013 , 9, 913-920	3.6	3
213	Large deformation and adhesive contact studies of axisymmetric membranes. <i>Langmuir</i> , 2013 , 29, 1407-19	4.9	17
212	Gravity and surface tension effects on the shape change of soft materials. <i>Langmuir</i> , 2013 , 29, 8665-74	4	35
211	Solid surface tension measured by a liquid drop under a solid film. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10541-5	11.5	70
210	Large deformation contact mechanics of long rectangular membranes. I. Adhesionless contact. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130424	2.4	12
209	Stress Relaxation Near the Tip of a Stationary Mode I Crack in a Poroelastic Solid. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	19
208	Large deformation contact mechanics of a pressurized long rectangular membrane. II. Adhesive contact. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130425	2.4	10
207	Microstructures: Structure and Energetics of Dislocations at Micro-Structured Complementary Interfaces Govern Adhesion (Adv. Funct. Mater. 27/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3452-3452	15.6	3
206	Structure and Energetics of Dislocations at Micro-Structured Complementary Interfaces Govern Adhesion. <i>Advanced Functional Materials</i> , 2013 , 23, 3453-3462	15.6	5
205	Axisymmetric membrane in adhesive contact with rigid substrates: Analytical solutions under large deformation. <i>International Journal of Solids and Structures</i> , 2012 , 49, 672-683	3.1	24
204	Crack buckling in soft gels under compression. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 1098-1105	2	3
203	A constitutive model for the large deformation of a self-healing gel. <i>Soft Matter</i> , 2012 , 8, 8209	3.6	52
202	Direct Extraction of Work of Adhesion from Contact Experiments: Generalization of JKR Theory to Flexible Structures and Large Deformation		7
201	Adhesion of microchannel-based complementary surfaces. <i>Langmuir</i> , 2012 , 28, 4213-22	4	19

200	Mapping three-dimensional stress and strain fields within a soft hydrogel using a fluorescence microscope. <i>Biophysical Journal</i> , 2012 , 102, 2241-50	2.9	33
199	Crack tip fields in a viscoplastic solid: monotonic and cyclic loading. <i>International Journal of Fracture</i> , 2012 , 175, 39-51	2.3	2
198	Adhesion energy can regulate vesicle fusion and stabilize partially fused states. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1555-67	4.1	11
197	Effects of gel thickness on microscopic indentation measurements of gel modulus. <i>Biophysical Journal</i> , 2011 , 101, 643-50	2.9	84
196	Cohesive Zone Models and Fracture 2011 , 87, 1-52		43
195	Adhesion, friction, and compliance of bio-mimetic and bio-inspired structured interfaces. <i>Materials Science and Engineering Reports</i> , 2011 , 72, 253-253	30.9	34
194	Adhesion Selectivity Using Rippled Surfaces. <i>Advanced Functional Materials</i> , 2011 , 21, 547-555	15.6	62
193	Adhesive contact between a rippled elastic surface and a rigid spherical indenter: from partial to full contact. <i>Soft Matter</i> , 2011 , 7, 10728	3.6	39
192	Nucleation and Propagation of Quasi-Static Interfacial Slip Pulses 2011 , 87, 504-529		7
191	Finite strain analysis of crack tip fields in incompressible hyperelastic solids loaded in plane stress. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 672-695	5	44
190	An easy-to-implement numerical simulation method for adhesive contact problems involving asymmetric adhesive contact. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 405303	3	12
189	Effects of finite chain extensibility on the stress fields near the tip of a mode III crack. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 3170-3187	2.4	4
188	Adhesion selectivity by electrostatic complementarity. II. Two-dimensional analysis. <i>Journal of Applied Physics</i> , 2011 , 110, 054903	2.5	6
187	Numerical study of shearing of a microfibre during friction testing of a microfibre array. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 1372-1389	2.4	10
186	The effect of aspect ratio on adhesion and stiffness for soft elastic fibres. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1166-75	4.1	27
185	Barnacles resist removal by crack trapping. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 868-79	4.1	21
184	Propagation of a brittle fracture in a viscoelastic fluid. <i>Soft Matter</i> , 2011 , 7, 9474	3.6	31
183	Adhesion selectivity by electrostatic complementarity. I. One-dimensional stripes of charge. <i>Journal of Applied Physics</i> , 2011 , 110, 054902	2.5	7

182	Buckling of sheared and compressed microfibrils. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1581-9	4.1	10
181	Effects of triaxiality on the growth of crack-like cavities in soft incompressible elastic solids. <i>Soft Matter</i> , 2010 , 6, 1238	3.6	10
180	Bonding strength of pressurized microchannels fabricated by polydimethylsiloxane and silicon. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 115032	2	3
179	Adhesion of a Fibrillar Interface on Wet and Rough Surfaces 2010 , 86, 39-61		32
178	Size Effect on Failure of Pre-stretched Free-Standing Nanomembranes. <i>Nanoscale Research Letters</i> , 2010 , 5, 1236-9	5	3
177	Probing in real time the soft crystallization of DNA-capped nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 380-4	16.4	63
176	Large deformation adhesive contact mechanics of circular membranes with a flat rigid substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2010 , 58, 1225-1242	5	56
175	Delamination of moisture saturated graphite/polyimide composites due to rapid heating. <i>Composites Part B: Engineering</i> , 2010 , 41, 568-577	10	16
174	An experimental investigation of fracture by cavitation of model elastomeric networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1409-1422	2.6	56
173	A model for static friction in a film-terminated microfibril array. <i>Journal of Applied Physics</i> , 2009 , 106, 053520	2.5	6
172	The effect of preload on the pull-off force in indentation tests of microfibre arrays. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009 , 465, 961-981	2.4	16
171	Effect of fibril arrangement on crack trapping in a film-terminated fibrillar interface. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 2368-2384	2.6	9
170	Finite strain stress fields near the tip of an interface crack between a soft incompressible elastic material and a rigid substrate. <i>European Physical Journal E</i> , 2009 , 29, 61-72	1.5	14
169	Mechanism of sliding friction on a film-terminated fibrillar interface. <i>Langmuir</i> , 2009 , 25, 2772-80	4	23
168	Effect of rate on adhesion and static friction of a film-terminated fibrillar interface. <i>Langmuir</i> , 2009 , 25, 2765-71	4	46
167	Fracture and large strain behavior of self-assembled triblock copolymer gels. <i>Soft Matter</i> , 2009 , 5, 447-456	3.6	109
166	Strength statistics of adhesive contact between a fibrillar structure and a rough substrate. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 441-8	4.1	20
165	Compliance of a microfibril subjected to shear and normal loads. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 1087-97	4.1	20

164	Mechanically tunable dry adhesive from wrinkled elastomers. <i>Soft Matter</i> , 2008 , 4, 1830	3.6	195
163	Model-independent extraction of adhesion energy from indentation experiments. <i>Langmuir</i> , 2008 , 24, 9401-9	4	27
162	Strongly enhanced static friction using a film-terminated fibrillar interface. <i>Soft Matter</i> , 2008 , 4, 618-625	3.6	51
161	Large deformation of soft elastic materials in adhesive contact with a rigid cylindrical flat punch. <i>Soft Matter</i> , 2008 , 4, 1909	3.6	14
160	Modeling the soft backing layer thickness effect on adhesion of elastic microfiber arrays. <i>Journal of Applied Physics</i> , 2008 , 104, 044301	2.5	53
159	Finite strain crack tip fields in soft incompressible elastic solids. <i>Langmuir</i> , 2008 , 24, 14245-53	4	45
158	Peeling single-stranded DNA from graphite surface to determine oligonucleotide binding energy by force spectroscopy. <i>Nano Letters</i> , 2008 , 8, 4365-72	11.5	161
157	A two-dimensional model for enhanced adhesion of film-terminated fibrillar interfaces by crack trapping. <i>Journal of Applied Physics</i> , 2008 , 104, 123506	2.5	17
156	Detachment of stretched viscoelastic fibrils. <i>European Physical Journal E</i> , 2008 , 25, 253-66	1.5	25
155	Enhanced adhesion and compliance of film-terminated fibrillar surfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 2631-2654	2.4	67
154	Biologically inspired crack trapping for enhanced adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10786-91	11.5	211
153	Design of bio-inspired fibrillar interfaces for contact and adhesion I theory and experiments. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 1259-1280	2	34
152	Contact measurement of internal fluid flow within poly(n-isopropylacrylamide) gels. <i>Journal of Chemical Physics</i> , 2007 , 127, 094906	3.9	35
151	Mechanics of Bioinspired and Biomimetic Fibrillar Interfaces. <i>MRS Bulletin</i> , 2007 , 32, 492-495	3.2	25
150	Effect of backing layer thickness on adhesion of single-level elastomer fiber arrays. <i>Applied Physics Letters</i> , 2007 , 91, 161905	3.4	53
149	Line of charges in electrolyte solution near a half-space I. Counterion condensation. <i>Journal of Colloid and Interface Science</i> , 2006 , 299, 564-71	9.3	7
148	Line of charges in electrolyte solution near a half-space II. Electric field of a single charge. <i>Journal of Colloid and Interface Science</i> , 2006 , 299, 572-9	9.3	9
147	Steam Pressure Generated in a Spherical Cavity in a Moisture Saturated Polymer Matrix Composite during Rapid Heating. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006 , 128, 50-54	1.8	4

146	Buckling Analysis of Delaminated and Stitched Composite Plate System Under Hygrothermal Pressure. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006 , 128, 117-122	1.8	1
145	Adhesive contact driven by electrostatic forces. <i>Journal of Applied Physics</i> , 2006 , 99, 054906	2.5	7
144	Stability Analysis of Stitched Composite Plate System with Delamination Under Hygrothermal Pressure. <i>AIAA Journal</i> , 2006 , 44, 1579-1585	2.1	5
143	Controlling Interfacial Interpenetration and Fracture Properties of Polyimide/Epoxy Interfaces 2006 , 82, 239-266		10
142	Thermal Fluctuations Limit the Adhesive Strength of Compliant Solids 2006 , 82, 671-696		24
141	Design of an electrostatic rotary comb actuator. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2006 , 5, 023008	0.7	5
140	A contact mechanics method for characterizing the elastic properties and permeability of gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 359-370	2.6	52
139	Effect of heating rate on steam pressure induced in crack-like cavities in moisture saturated polymer matrix composites. <i>International Journal of Solids and Structures</i> , 2006 , 43, 6085-6099	3.1	7
138	A flow through porous media model for pore pressure during heating of polymer matrix composites. <i>Composites Science and Technology</i> , 2006 , 66, 1409-1417	8.6	10
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