

# Chung-Yuen Hui

## List of Publications by Citations

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307  
papers

10,480  
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54  
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88  
g-index

313  
ext. papers

11,412  
ext. citations

4.2  
avg, IF

6.39  
L-index

#	Paper	IF	Citations
307	Failure mechanisms of polymer interfaces reinforced with block copolymers. <i>Macromolecules</i> , <b>1992</b> , 25, 3075-3088	5.5	371
306	Constraints on Microcontact Printing Imposed by Stamp Deformation. <i>Langmuir</i> , <b>2002</b> , 18, 1394-1407	4	359
305	Design of biomimetic fibrillar interfaces: 1. Making contact. <i>Journal of the Royal Society Interface</i> , <b>2004</b> , 1, 23-33	4.1	331
304	Design of biomimetic fibrillar interfaces: 2. Mechanics of enhanced adhesion. <i>Journal of the Royal Society Interface</i> , <b>2004</b> , 1, 35-48	4.1	218
303	Biologically inspired crack trapping for enhanced adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10786-91	11.5	211
302	Mechanically tunable dry adhesive from wrinkled elastomers. <i>Soft Matter</i> , <b>2008</b> , 4, 1830	3.6	195
301	The asymptotic stress and strain field near the tip of a growing crack under creep conditions. <i>International Journal of Fracture</i> , <b>1981</b> , 17, 409-425	2.3	190
300	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> , <b>2016</b> , 113, 14043-14048	11.5	181
299	Adhesive contact of cylindrical lens and a flat sheet. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 30-37	2.5	174
298	Elastocapillarity: Surface Tension and the Mechanics of Soft Solids. <i>Annual Review of Condensed Matter Physics</i> , <b>2017</b> , 8, 99-118	19.7	166
297	An interface model for the prediction of Young's modulus of layered silicate-elastomer nanocomposites. <i>Polymer Composites</i> , <b>1998</b> , 19, 608-617	3	164
296	Crack blunting and the strength of soft elastic solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 1489-1516	2.4	162
295	Peeling single-stranded DNA from graphite surface to determine oligonucleotide binding energy by force spectroscopy. <i>Nano Letters</i> , <b>2008</b> , 8, 4365-72	11.5	161
294	Time Dependent Behavior of a Dual Cross-Link Self-Healing Gel: Theory and Experiments. <i>Macromolecules</i> , <b>2014</b> , 47, 7243-7250	5.5	138
293	Case-II diffusion in polymers. I. Transient swelling. <i>Journal of Applied Physics</i> , <b>1987</b> , 61, 5129-5136	2.5	136
292	Effect of stamp deformation on the quality of microcontact printing: theory and experiment. <i>Langmuir</i> , <b>2004</b> , 20, 6430-8	4	135
291	Adhesion and Fracture of Interfaces Between Immiscible Polymers: from the Molecular to the Continuum Scal. <i>Advances in Polymer Science</i> , <b>2001</b> , 53-136	1.3	128

290	Reinforcement of polymer interfaces with random copolymers. <i>Physical Review Letters</i> , <b>1994</b> , 73, 2472-2475	4.75	128
289	Case-II diffusion in polymers. II. Steady-state front motion. <i>Journal of Applied Physics</i> , <b>1987</b> , 61, 5137-5149	5	119
288	Fracture toughness of hydrogels: measurement and interpretation. <i>Soft Matter</i> , <b>2016</b> , 12, 8069-8086	3.6	111
287	Simple formulae for the effective moduli of unidirectional aligned composites. <i>Polymer Engineering and Science</i> , <b>1998</b> , 38, 774-782	2.3	110
286	Fracture and large strain behavior of self-assembled triblock copolymer gels. <i>Soft Matter</i> , <b>2009</b> , 5, 447-456	6	109
285	An exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1995</b> , 43, 1551-1585	5	101
284	Chain Pullout Fracture of Polymer Interfaces. <i>Macromolecules</i> , <b>1994</b> , 27, 2019-2024	5.5	96
283	Size effects in the distribution for strength of brittle matrix fibrous composites. <i>International Journal of Solids and Structures</i> , <b>1997</b> , 34, 545-568	3.1	94
282	Can a fibrillar interface be stronger and tougher than a non-fibrillar one?. <i>Journal of the Royal Society Interface</i> , <b>2005</b> , 2, 505-16	4.1	92
281	Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezo-electric material. <i>International Journal of Solids and Structures</i> , <b>1996</b> , 33, 2719-2737	3.1	87
280	Effects of gel thickness on microscopic indentation measurements of gel modulus. <i>Biophysical Journal</i> , <b>2011</b> , 101, 643-50	2.9	84
279	Fracture mechanisms of polymer interfaces reinforced with block copolymers: transition from chain pullout to crazing. <i>Macromolecules</i> , <b>1993</b> , 26, 2928-2934	5.5	84
278	Analysis of a mixed mode fracture specimen: the asymmetric double cantilever beam. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 5620-5629	4.3	81
277	Micromechanics of crack growth into a craze in a polymer glass. <i>Macromolecules</i> , <b>1992</b> , 25, 3948-3955	5.5	79
276	Crack tip fields in soft elastic solids subjected to large quasi-static deformation A review. <i>Extreme Mechanics Letters</i> , <b>2015</b> , 4, 131-155	3.9	78
275	Continuum and Discrete Modeling of Craze Failure at a Crack Tip in a Glassy Polymer. <i>Macromolecules</i> , <b>1995</b> , 28, 2450-2459	5.5	74
274	Adhesion enhancement in a biomimetic fibrillar interface. <i>Acta Biomaterialia</i> , <b>2005</b> , 1, 367-75	10.8	71
273	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> , <b>2013</b> , 110, 10541-5	11.5	70

272	Collapse of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 074310	2.5	69
271	Electrostatic model for an asymmetric combdrive. <i>Journal of Microelectromechanical Systems</i> , <b>2000</b> , 9, 126-135	2.5	69
270	Enhanced adhesion and compliance of film-terminated fibrillar surfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2007</b> , 463, 2631-2654	2.4	67
269	Effects of surface tension on the adhesive contact of a rigid sphere to a compliant substrate. <i>Soft Matter</i> , <b>2014</b> , 10, 4625-32	3.6	66
268	Toward single cell traction microscopy within 3D collagen matrices. <i>Experimental Cell Research</i> , <b>2013</b> , 319, 2396-408	4.2	66
267	The mechanics of tack: Viscoelastic contact on a rough surface. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 1485-1495	2.6	66
266	A fracture model for a weak interface in a viscoelastic material (small scale yielding analysis). <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 3294-3304	2.5	66
265	A theory for the fracture of thin plates subjected to bending and twisting moments. <i>International Journal of Fracture</i> , <b>1993</b> , 61, 211-229	2.3	66
264	Fracture of dual crosslink gels with permanent and transient crosslinks. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 6, 52-59	3.9	65
263	Cavity growth from crack-like defects in soft materials. <i>International Journal of Fracture</i> , <b>2004</b> , 126, 205-221	3.1	65
262	A micromechanical model of crack growth along polymer interfaces. <i>Mechanics of Materials</i> , <b>1991</b> , 11, 257-268	3.3	65
261	The initial stages of Case II diffusion at low penetrant activities. <i>Polymer</i> , <b>1988</b> , 29, 673-679	3.9	65
260	Probing in real time the soft crystallization of DNA-capped nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 380-4	16.4	63
259	Adhesion Selectivity Using Rippled Surfaces. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 547-555	15.6	62
258	A cohesive zone model for the adhesion of cylinders. <i>Journal of Adhesion Science and Technology</i> , <b>1997</b> , 11, 393-406	2	62
257	Strengthening polymer interfaces. <i>Faraday Discussions</i> , <b>1994</b> , 98, 31	3.6	59
256	Mechanics of a Dual Cross-Link Gel with Dynamic Bonds: Steady State Kinetics and Large Deformation Effects. <i>Macromolecules</i> , <b>2016</b> , 49, 3497-3507	5.5	59
255	Large deformation adhesive contact mechanics of circular membranes with a flat rigid substrate. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2010</b> , 58, 1225-1242	5	56

254	An experimental investigation of fracture by cavitation of model elastomeric networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 1409-1422	2.6	56
253	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> , <b>2015</b> , 471, 20140727 <sup>2-4</sup>		54
252	How Compliance Compensates for Surface Roughness in Fibrillar Adhesion <b>2005</b> , 81, 699-721		54
251	Interface shear stresses induced by non-uniform heating of a film on a substrate. <i>Thin Solid Films</i> , <b>1993</b> , 224, 159-167	2.2	54
250	Modeling the soft backing layer thickness effect on adhesion of elastic microfiber arrays. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 044301	2.5	53
249	Effect of backing layer thickness on adhesion of single-level elastomer fiber arrays. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 161905	3.4	53
248	A constitutive model for the large deformation of a self-healing gel. <i>Soft Matter</i> , <b>2012</b> , 8, 8209	3.6	52
247	A contact mechanics method for characterizing the elastic properties and permeability of gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 359-370	2.6	52
246	The single-filament-composite test: a new statistical theory for estimating the interfacial shear strength and Weibull parameters for fiber strength. <i>Composites Science and Technology</i> , <b>1998</b> , 57, 1707-1725	8.6	51
245	Strongly enhanced static friction using a film-terminated fibrillar interface. <i>Soft Matter</i> , <b>2008</b> , 4, 618-625	3.6	51
244	Adhesion between single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 074304	2.5	51
243	The mechanics of contact and adhesion of periodically rough surfaces. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 1195-1214	2.6	51
242	Why K? High order singularities and small scale yielding. <i>International Journal of Fracture</i> , <b>1995</b> , 72, 97-120	3	51
241	Optimum toughening of homopolymer interfaces with block copolymers. <i>Macromolecules</i> , <b>1993</b> , 26, 6011-6020	5.5	50
240	Viscoelastic contract, work of adhesion and the JKR technique. <i>Journal Physics D: Applied Physics</i> , <b>1999</b> , 32, 2250-2260	3	49
239	Fracture Toughness and Failure Mechanisms of Epoxy/Rubber-Modified Polystyrene (HIPS) Interfaces Reinforced by Grafted Chains. <i>Macromolecules</i> , <b>1996</b> , 29, 4728-4736	5.5	47
238	Effect of rate on adhesion and static friction of a film-terminated fibrillar interface. <i>Langmuir</i> , <b>2009</b> , 25, 2765-71	4	46
237	Gel mechanics: a comparison of the theories of Biot and Tanaka, Hocker, and Benedek. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 154905	3.9	46

236	Surface energy effects for cavity growth and nucleation in an incompressible neo-Hookean material: modeling and experiment. <i>International Journal of Solids and Structures</i> , <b>2004</b> , 41, 6111-6127	3.1	46
235	Flattening of a patterned compliant solid by surface stress. <i>Soft Matter</i> , <b>2014</b> , 10, 4084-90	3.6	45
234	Finite strain crack tip fields in soft incompressible elastic solids. <i>Langmuir</i> , <b>2008</b> , 24, 14245-53	4	45
233	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> , <b>2011</b> , 59, 672-695	5	44
232	Mechanics of sintering thin films III. Cracking due to self-stress. <i>Mechanics of Materials</i> , <b>1991</b> , 11, 221-234	3.3	44
231	Cohesive Zone Models and Fracture <b>2011</b> , 87, 1-52		43
230	Elastica solution for a nanotube formed by self-adhesion of a folded thin film. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 3429-3434	2.5	43
229	Strengthening Polymer Interfaces with Triblock Copolymers. <i>Macromolecules</i> , <b>1997</b> , 30, 549-560	5.5	42
228	Mechanical and swelling properties of PDMS interpenetrating polymer networks. <i>Polymer</i> , <b>2006</b> , 47, 6226-6235	3.9	42
227	Phase Angle Effects on Fracture Toughness of Polymer Interfaces Reinforced with Block Copolymers. <i>Macromolecules</i> , <b>1994</b> , 27, 4382-4390	5.5	42
226	Rheology of a dual crosslink self-healing gel: Theory and measurement using parallel-plate torsional rheometry. <i>Journal of Rheology</i> , <b>2015</b> , 59, 643-665	4.1	41
225	Mechanics of contact and adhesion between viscoelastic spheres: An analysis of hysteresis during loading and unloading. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 772-793	2.6	41
224	Fracture Toughness of Polymer Interface Reinforced With Diblock Copolymer: Effect of Homopolymer Molecular Weight. <i>Macromolecules</i> , <b>1996</b> , 29, 7536-7543	5.5	40
223	Adhesive contact between a rippled elastic surface and a rigid spherical indenter: from partial to full contact. <i>Soft Matter</i> , <b>2011</b> , 7, 10728	3.6	39
222	The Fracture of Highly Deformable Soft Materials: A Tale of Two Length Scales. <i>Annual Review of Condensed Matter Physics</i> , <b>2021</b> , 12, 71-94	19.7	39
221	Interface fracture and viscoelastic deformation in finite size specimens. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 3305-3316	2.5	38
220	Analysis of adhesion and interface debonding in laminated safety glass. <i>Journal of Adhesion Science and Technology</i> , <b>1997</b> , 11, 49-63	2	37
219	Mechanics of sintering thin films II. Formulation and analytical results. <i>Mechanics of Materials</i> , <b>1990</b> , 9, 107-119	3.3	36

218	Fiber-Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907180	24	35
217	Deformation near a liquid contact line on an elastic substrate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2014</b> , 470, 20140085	2.4	35
216	Gravity and surface tension effects on the shape change of soft materials. <i>Langmuir</i> , <b>2013</b> , 29, 8665-74	4	35
215	Contact measurement of internal fluid flow within poly(n-isopropylacrylamide) gels. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 094906	3.9	35
214	The Role of Viscoelastic Adhesive Contact in the Sintering of Polymeric Particles. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 237, 267-282	9.3	35
213	Adhesion, friction, and compliance of bio-mimetic and bio-inspired structured interfaces. <i>Materials Science and Engineering Reports</i> , <b>2011</b> , 72, 253-253	30.9	34
212	Design of bio-inspired fibrillar interfaces for contact and adhesion [theory and experiments]. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 1259-1280	2	34
211	Mapping three-dimensional stress and strain fields within a soft hydrogel using a fluorescence microscope. <i>Biophysical Journal</i> , <b>2012</b> , 102, 2241-50	2.9	33
210	Detailed simulation of craze fibril failure at a crack tip in a glassy polymer. <i>Acta Materialia</i> , <b>1997</b> , 45, 3555-3563	3.3	33
209	Temperature dependence of case II diffusion. <i>Polymer</i> , <b>1988</b> , 29, 1131-1136	3.9	33
208	Surface tension, surface energy, and chemical potential due to their difference. <i>Langmuir</i> , <b>2013</b> , 29, 11310-6	4	32
207	Adhesion of a Fibrillar Interface on Wet and Rough Surfaces <b>2010</b> , 86, 39-61		32
206	Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites. <i>Acta Materialia</i> , <b>1996</b> , 44, 279-287	8.4	32
205	Propagation of a brittle fracture in a viscoelastic fluid. <i>Soft Matter</i> , <b>2011</b> , 7, 9474	3.6	31
204	Measurement of Interfacial Fracture Toughness Under Combined Mechanical and Thermal Stresses. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>1998</b> , 120, 349-353	2	30
203	Extreme cavity expansion in soft solids: Damage without fracture. <i>Science Advances</i> , <b>2020</b> , 6, eaaz0418	14.3	28
202	Effect of the Monomer Ratio on the Strengthening of Polymer Phase Boundaries by Random Copolymers. <i>Macromolecules</i> , <b>1997</b> , 30, 6727-6736	5.5	28
201	Stability of Nanoporous Materials. <i>Macromolecular Rapid Communications</i> , <b>2004</b> , 25, 1487-1490	4.8	28

200	Viscoelastic crack healing and adhesion. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 4232-4241	2.5	28
199	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> , <b>2018</b> , 120, 79-95	5	27
198	The effect of aspect ratio on adhesion and stiffness for soft elastic fibres. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1166-75	4.1	27
197	Model-independent extraction of adhesion energy from indentation experiments. <i>Langmuir</i> , <b>2008</b> , 24, 9401-9	4	27
196	Superior fracture resistance of fiber reinforced polyampholyte hydrogels achieved by extraordinarily large energy-dissipative process zones. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13431-13440	13.4	26
195	Failure of elastomeric polymers due to rate dependent bond rupture. <i>Langmuir</i> , <b>2004</b> , 20, 6052-64	4	26
194	Planar equilibrium shapes of a liquid drop on a membrane. <i>Soft Matter</i> , <b>2015</b> , 11, 8960-7	3.6	25
193	Detachment of stretched viscoelastic fibrils. <i>European Physical Journal E</i> , <b>2008</b> , 25, 253-66	1.5	25
192	Mechanics of Bioinspired and Biomimetic Fibrillar Interfaces. <i>MRS Bulletin</i> , <b>2007</b> , 32, 492-495	3.2	25
191	The accuracy of the geometric assumptions in the JKR (JohnsonKendallRoberts) theory of adhesion. <i>Journal of Adhesion Science and Technology</i> , <b>2000</b> , 14, 1297-1319	2	25
190	Interplay between intermolecular interactions and chain pullout in the adhesion of elastomer. <i>Macromolecules</i> , <b>1994</b> , 27, 608-609	5.5	25
189	The energy release rate of a pressurized crack in soft elastic materials: effects of surface tension and large deformation. <i>Soft Matter</i> , <b>2014</b> , 10, 7723-9	3.6	24
188	Axisymmetric membrane in adhesive contact with rigid substrates: Analytical solutions under large deformation. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 672-683	3.1	24
187	Thermal Fluctuations Limit the Adhesive Strength of Compliant Solids <b>2006</b> , 82, 671-696		24
186	Molecular weight dependence of the fracture toughness of glassy polymers arising from crack propagation through a craze. <i>Polymer Engineering and Science</i> , <b>1995</b> , 35, 419-425	2.3	24
185	Aspects of cohesive zone models and crack growth in rate-dependent materials. <i>International Journal of Fracture</i> , <b>1991</b> , 52, 119-144	2.3	24
184	Mechanism of sliding friction on a film-terminated fibrillar interface. <i>Langmuir</i> , <b>2009</b> , 25, 2772-80	4	23
183	Collapse of microchannels during anodic bonding: Theory and experiments. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 2800-2808	2.5	23



182	Water-assisted sub-critical crack growth along an interface between polyimide passivation and epoxy underfill. <i>International Journal of Fracture</i> , <b>2001</b> , 109, 1-28	2.3	23
181	The mechanics of self-similar crack growth in an elastic power-law creeping material. <i>International Journal of Solids and Structures</i> , <b>1986</b> , 22, 357-372	3.1	23
180	Adhesive contact of a rigid circular cylinder to a soft elastic substrate--the role of surface tension. <i>Soft Matter</i> , <b>2015</b> , 11, 3844-51	3.6	22
179	Analysis of fragmentation in the single filament composite: Roles of fiber strength distributions and exclusion zone models. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1996</b> , 44, 1715-1737	5	22
178	The Effective Thermal Conductivity of a Packing of Spheres. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1990</b> , 57, 789-791	2.7	22
177	Time-temperature equivalence in a PVA dual cross-link self-healing hydrogel. <i>Journal of Rheology</i> , <b>2018</b> , 62, 991-1000	4.1	22
176	Barnacles resist removal by crack trapping. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 868-79	4.1	21
175	Rheological properties and adhesive failure of thin viscoelastic layers. <i>Journal of Rheology</i> , <b>2002</b> , 46, 273-294	4.1	21
174	Estimation of interfacial shear strength: an application of a new statistical theory for single fiber composite test. <i>Composites Science and Technology</i> , <b>1999</b> , 59, 2037-2046	8.6	21
173	Strength statistics of adhesive contact between a fibrillar structure and a rough substrate. <i>Journal of the Royal Society Interface</i> , <b>2008</b> , 5, 441-8	4.1	20
172	Compliance of a microfibril subjected to shear and normal loads. <i>Journal of the Royal Society Interface</i> , <b>2008</b> , 5, 1087-97	4.1	20
171	Crack tip stress fields for thin, cracked plates in bending, shear and twisting: A comparison of plate theory and three-dimensional elasticity theory solutions. <i>International Journal of Fracture</i> , <b>2000</b> , 104, 387-407	2.3	20
170	Measurement of the fracture toughness of polymer-non-polymer interfaces. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 4234-4244	4.3	20
169	Adhesion of microchannel-based complementary surfaces. <i>Langmuir</i> , <b>2012</b> , 28, 4213-22	4	19
168	Stress Relaxation Near the Tip of a Stationary Mode I Crack in a Poroelastic Solid. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2013</b> , 80,	2.7	19
167	Steam pressure induced in crack-like cavities in moisture saturated polymer matrix composites during rapid heating. <i>International Journal of Solids and Structures</i> , <b>2005</b> , 42, 1055-1072	3.1	19
166	Friction of Poroelastic Contacts with Thin Hydrogel Films. <i>Langmuir</i> , <b>2018</b> , 34, 9617-9626	4	18
165	Modeling the failure of an adhesive layer in a peel test. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 2277-2291	2.6	18

164	A Reexamination of Residual Stresses in Thin Films and of the Validity of Stoney's Estimate. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2000</b> , 122, 267-273	2	18
163	Effect of large deformation and surface stiffening on the transmission of a line load on a neo-Hookean half space. <i>Soft Matter</i> , <b>2018</b> , 14, 1847-1855	3.6	17
162	Large deformation and adhesive contact studies of axisymmetric membranes. <i>Langmuir</i> , <b>2013</b> , 29, 1407-1419		17
161	Evaluation of hypersingular integrals in the boundary element method by complex variable techniques. <i>International Journal of Solids and Structures</i> , <b>1997</b> , 34, 203-221	3.1	17
160	A two-dimensional model for enhanced adhesion of film-terminated fibrillar interfaces by crack trapping. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 123506	2.5	17
159	Small scale geometric and material features at geometric discontinuities and their role in fracture analysis. <i>International Journal of Fracture</i> , <b>2001</b> , 110, 101-121	2.3	17
158	Effect of water incorporation on the diffusion of sodium in Type I silica glass. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 286, 146-161	3.9	17
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