Chung-Yuen Hui

List of Publications by Year
in descending order

309 papers	12,464 citations	22099 59 h-index	35952 97 g-index
313 all docs	313 docs citations	313 times ranked	7849 citing authors

#	Article	IF	Citations
1	Failure mechanisms of polymer interfaces reinforced with block copolymers. Macromolecules, 1992, 25, 3075-3088.	2.2	428
2	Constraints on Microcontact Printing Imposed by Stamp Deformation. Langmuir, 2002, 18, 1394-1407.	1.6	396
3	Design of biomimetic fibrillar interfaces: 1. Making contact. Journal of the Royal Society Interface, 2004, 1, 23-33.	1.5	362
4	Fibrous nonlinear elasticity enables positive mechanical feedback between cells and ECMs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14043-14048.	3.3	267
5	Design of biomimetic fibrillar interfaces: 2. Mechanics of enhanced adhesion. Journal of the Royal Society Interface, 2004, 1, 35-48.	1.5	250
6	Elastocapillarity: Surface Tension and the Mechanics of Soft Solids. Annual Review of Condensed Matter Physics, 2017, 8, 99-118.	5.2	247
7	Biologically inspired crack trapping for enhanced adhesion. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10786-10791.	3.3	234
8	Mechanically tunable dry adhesive from wrinkled elastomers. Soft Matter, 2008, 4, 1830.	1.2	207
9	The asymptotic stress and strain field near the tip of a growing crack under creep conditions. International Journal of Fracture, 1981, 17, 409-425.	1.1	202
10	Adhesive contact of cylindrical lens and a flat sheet. Journal of Applied Physics, 1996, 80, 30-37.	1.1	195
11	Crack blunting and the strength of soft elastic solids. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 1489-1516.	1.0	195
12	Fracture toughness of hydrogels: measurement and interpretation. Soft Matter, 2016, 12, 8069-8086.	1.2	181
13	An interface model for the prediction of Young's modulus of layered silicate-elastomer nanocomposites. Polymer Composites, 1998, 19, 608-617.	2.3	179
14	Peeling Single-Stranded DNA from Graphite Surface to Determine Oligonucleotide Binding Energy by Force Spectroscopy. Nano Letters, 2008, 8, 4365-4372.	4.5	176
15	Time Dependent Behavior of a Dual Cross-Link Self-Healing Gel: Theory and Experiments. Macromolecules, 2014, 47, 7243-7250.	2.2	166
16	Caseâ€II diffusion in polymers. I. Transient swelling. Journal of Applied Physics, 1987, 61, 5129-5136.	1.1	162
17	Reinforcement of Polymer Interfaces with Random Copolymers. Physical Review Letters, 1994, 73, 2472-2475.	2.9	154
18	Caseâ€II diffusion in polymers. II. Steadyâ€state front motion. Journal of Applied Physics, 1987, 61, 5137-5149.	1.1	142

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19	Adhesion and Fracture of Interfaces Between Immiscible Polymers: from the Molecular to the Continuum Scal. Advances in Polymer Science, 2001, , 53-136.	0.4	141
20	Effect of Stamp Deformation on the Quality of Microcontact Printing:Â Theory and Experiment. Langmuir, 2004, 20, 6430-6438.	1.6	141
21	Simple formulae for the effective moduli of unidirectional aligned composites. Polymer Engineering and Science, 1998, 38, 774-782.	1.5	122
22	Fracture and large strain behavior of self-assembled triblock copolymer gels. Soft Matter, 2009, 5, 447-456.	1.2	120
23	An exact closed form solution for fragmentation of Weibull fibers in a single filament composite with applications to fiber-reinforced ceramics. Journal of the Mechanics and Physics of Solids, 1995, 43, 1551-1585.	2.3	115
24	Can a fibrillar interface be stronger and tougher than a non-fibrillar one?. Journal of the Royal Society Interface, 2005, 2, 505-516.	1.5	113
25	Chain Pullout Fracture of Polymer Interfaces. Macromolecules, 1994, 27, 2019-2024.	2.2	108
26	Effects of Gel Thickness on Microscopic Indentation Measurements ofÂGelÂModulus. Biophysical Journal, 2011, 101, 643-650.	0.2	108
27	Crack tip fields in soft elastic solids subjected to large quasi-static deformation â€" A review. Extreme Mechanics Letters, 2015, 4, 131-155.	2.0	104
28	The Fracture of Highly Deformable Soft Materials: A Tale of Two Length Scales. Annual Review of Condensed Matter Physics, 2021, 12, 71-94.	5.2	103
29	Size effects in the distribution for strength of brittle matrix fibrous composites. International Journal of Solids and Structures, 1997, 34, 545-568.	1.3	101
30	Analysis of a mixed mode fracture specimen: the asymmetric double cantilever beam. Journal of Materials Science, 1993, 28, 5620-5629.	1.7	99
31	Stress and induction field of a spheroidal inclusion or a penny-shaped crack in a transversely isotropic piezo-electric material. International Journal of Solids and Structures, 1996, 33, 2719-2737.	1.3	98
32	Fracture mechanisms of polymer interfaces reinforced with block copolymers: transition from chain pullout to crazing. Macromolecules, 1993, 26, 2928-2934.	2.2	97
33	Micromechanics of crack growth into a craze in a polymer glass. Macromolecules, 1992, 25, 3948-3955.	2.2	92
34	Fracture of dual crosslink gels with permanent and transient crosslinks. Extreme Mechanics Letters, 2016, 6, 52-59.	2.0	87
35	Continuum and Discrete Modeling of Craze Failure at a Crack Tip in a Glassy Polymer. Macromolecules, 1995, 28, 2450-2459.	2.2	83
36	Solid surface tension measured by a liquid drop under a solid film. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10541-10545.	3.3	82

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37	The initial stages of Case II diffusion at low penetrant activities. Polymer, 1988, 29, 673-679.	1.8	78
38	Electrostatic model for an asymmetric combdrive. Journal of Microelectromechanical Systems, 2000, 9, 126-135.	1.7	78
39	Toward single cell traction microscopy within 3D collagen matrices. Experimental Cell Research, 2013, 319, 2396-2408.	1.2	78
40	Fiberâ€Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. Advanced Materials, 2020, 32, e1907180.	11.1	77
41	A micromechanical model of crack growth along polymer interfaces. Mechanics of Materials, 1991, 11, 257-268.	1.7	76
42	A theory for the fracture of thin plates subjected to bending and twisting moments. International Journal of Fracture, 1993, 61, 211-229.	1.1	76
43	The mechanics of tack: Viscoelastic contact on a rough surface. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1485-1495.	2.4	76
44	Collapse of single-walled carbon nanotubes. Journal of Applied Physics, 2005, 97, 074310.	1.1	76
45	Adhesion enhancement in a biomimetic fibrillar interface. Acta Biomaterialia, 2005, 1, 367-375.	4.1	75
46	Mechanics of a Dual Cross-Link Gel with Dynamic Bonds: Steady State Kinetics and Large Deformation Effects. Macromolecules, 2016, 49, 3497-3507.	2.2	74
47	A fracture model for a weak interface in a viscoelastic material (small scale yielding analysis). Journal of Applied Physics, 1992, 72, 3294-3304.	1.1	73
48	A cohesive zone model for the adhesion of cylinders. Journal of Adhesion Science and Technology, 1997, 11, 393-406.	1.4	73
49	Cavity growth from crack-like defects in soft materials. International Journal of Fracture, 2004, 126, 205-221.	1.1	73
50	Enhanced adhesion and compliance of film-terminated fibrillar surfaces. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 2631-2654.	1.0	71
51	Probing in Real Time the Soft Crystallization of DNAâ€Capped Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 380-384.	7.2	71
52	Strengthening polymer interfaces. Faraday Discussions, 1994, 98, 31.	1.6	69
53	Large deformation adhesive contact mechanics of circular membranes with a flat rigid substrate. Journal of the Mechanics and Physics of Solids, 2010, 58, 1225-1242.	2.3	69
54	Effects of surface tension on the adhesive contact of a rigid sphere to a compliant substrate. Soft Matter, 2014, 10, 4625-4632.	1.2	69

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55	Adhesion Selectivity Using Rippled Surfaces. Advanced Functional Materials, 2011, 21, 547-555.	7.8	68
56	Interface shear stresses induced by non-uniform heating of a film on a substrate. Thin Solid Films, 1993, 224, 159-167.	0.8	66
57	A constitutive model for the large deformation of a self-healing gel. Soft Matter, 2012, 8, 8209.	1.2	63
58	Why K? High order singularities and small scale yielding. International Journal of Fracture, 1995, 72, 97-120.	1.1	62
59	The mechanics of contact and adhesion of periodically rough surfaces. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1195-1214.	2.4	60
60	Modeling the soft backing layer thickness effect on adhesion of elastic microfiber arrays. Journal of Applied Physics, 2008, 104, 044301.	1.1	60
61	An experimental investigation of fracture by cavitation of model elastomeric networks. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1409-1422.	2.4	60
62	Indentation of a rigid sphere into an elastic substrate with surface tension and adhesion. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140727.	1.0	60
63	Optimum toughening of homopolymer interfaces with block copolymers. Macromolecules, 1993, 26, 6011-6020.	2.2	59
64	How Compliance Compensates for Surface Roughness in Fibrillar Adhesion. Journal of Adhesion, 2005, 81, 699-721.	1.8	58
65	A contact mechanics method for characterizing the elastic properties and permeability of gels. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 359-370.	2.4	57
66	Effect of backing layer thickness on adhesion of single-level elastomer fiber arrays. Applied Physics Letters, 2007, 91, .	1.5	57
67	The single-filament-composite test: a new statistical theory for estimating the interfacial shear strength and Weibull parameters for fiber strength. Composites Science and Technology, 1998, 57, 1707-1725.	3.8	56
68	Gel mechanics: A comparison of the theories of Biot and Tanaka, Hocker, and Benedek. Journal of Chemical Physics, 2005, 123, 154905.	1.2	55
69	Finite strain analysis of crack tip fields in incompressible hyperelastic solids loaded in plane stress. Journal of the Mechanics and Physics of Solids, 2011, 59, 672-695.	2.3	55
70	Finite Strain Crack Tip Fields in Soft Incompressible Elastic Solids. Langmuir, 2008, 24, 14245-14253.	1.6	54
71	Surface energy effects for cavity growth and nucleation in an incompressible neo-Hookean materialâ€"â€"modeling and experiment. International Journal of Solids and Structures, 2004, 41, 6111-6127.	1.3	53
72	Strongly enhanced static friction using a film-terminated fibrillar interface. Soft Matter, 2008, 4, 618.	1.2	53

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73	Adhesion between single-walled carbon nanotubes. Journal of Applied Physics, 2005, 97, 074304.	1.1	52
74	Flattening of a patterned compliant solid by surface stress. Soft Matter, 2014, 10, 4084-4090.	1.2	52
75	Mechanics of sintering thin films â€" II. Cracking due to self-stress. Mechanics of Materials, 1991, 11, 221-234.	1.7	51
76	Viscoelastic contract, work of adhesion and the JKR technique. Journal Physics D: Applied Physics, 1999, 32, 2250-2260.	1.3	51
77	Elastica solution for a nanotube formed by self-adhesion of a folded thin film. Journal of Applied Physics, 2004, 96, 3429-3434.	1.1	51
78	Fracture Toughness and Failure Mechanisms of Epoxy/Rubber-Modified Polystyrene (HIPS) Interfaces Reinforced by Grafted Chains. Macromolecules, 1996, 29, 4728-4736.	2.2	50
79	Mechanics of contact and adhesion between viscoelastic spheres: An analysis of hysteresis during loading and unloading. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 772-793.	2.4	50
80	Interface fracture and viscoelastic deformation in finite size specimens. Journal of Applied Physics, 1992, 72, 3305-3316.	1.1	48
81	Mechanical and swelling properties of PDMS interpenetrating polymer networks. Polymer, 2006, 47, 6226-6235.	1.8	48
82	Effect of Rate on Adhesion and Static Friction of a Film-Terminated Fibrillar Interface. Langmuir, 2009, 25, 2765-2771.	1.6	48
83	Cohesive Zone Models and Fracture. Journal of Adhesion, 2011, 87, 1-52.	1.8	48
84	Analysis of adhesion and interface debonding in laminated safety glass. Journal of Adhesion Science and Technology, 1997, 11, 49-63.	1.4	46
85	Strengthening Polymer Interfaces with Triblock Copolymers. Macromolecules, 1997, 30, 549-560.	2.2	46
86	Rheology of a dual crosslink self-healing gel: Theory and measurement using parallel-plate torsional rheometry. Journal of Rheology, 2015, 59, 643-665.	1.3	46
87	Extreme cavity expansion in soft solids: Damage without fracture. Science Advances, 2020, 6, eaaz0418.	4.7	45
88	Fracture Toughness of Polymer Interface Reinforced With Diblock Copolymer:Â Effect of Homopolymer Molecular Weight. Macromolecules, 1996, 29, 7536-7543.	2.2	44
89	Adhesion, friction, and compliance of bio-mimetic and bio-inspired structured interfaces. Materials Science and Engineering Reports, 2011, 72, 253-253.	14.8	44
90	Gravity and Surface Tension Effects on the Shape Change of Soft Materials. Langmuir, 2013, 29, 8665-8674.	1.6	44

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91	Phase Angle Effects on Fracture Toughness of Polymer Interfaces Reinforced with Block Copolymers. Macromolecules, 1994, 27, 4382-4390.	2.2	43
92	Temperature dependence of case II diffusion. Polymer, 1988, 29, 1131-1136.	1.8	42
93	Deformation near a liquid contact line on an elastic substrate. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140085.	1.0	42
94	Adhesive contact between a rippled elastic surface and a rigid spherical indenter: from partial to full contact. Soft Matter, 2011, 7, 10728.	1.2	41
95	Fracture mechanics of a self-healing hydrogel with covalent and physical crosslinks: A numerical study. Journal of the Mechanics and Physics of Solids, 2018, 120, 79-95.	2.3	41
96	Mechanics of sintering thin films â€" I. Formulation and analytical results. Mechanics of Materials, 1990, 9, 107-119.	1.7	40
97	Mapping Three-Dimensional Stress and Strain Fields within a Soft Hydrogel Using a Fluorescence Microscope. Biophysical Journal, 2012, 102, 2241-2250.	0.2	40
98	Superior fracture resistance of fiber reinforced polyampholyte hydrogels achieved by extraordinarily large energy-dissipative process zones. Journal of Materials Chemistry A, 2019, 7, 13431-13440.	5.2	40
99	The Role of Viscoelastic Adhesive Contact in the Sintering of Polymeric Particles. Journal of Colloid and Interface Science, 2001, 237, 267-282.	5.0	38
100	Collapse of microchannels during anodic bonding: Theory and experiments. Journal of Applied Physics, 2004, 95, 2800-2808.	1.1	38
101	Residual thermal stresses and calculation of the critical metal particle size for interfacial crack extension in metal-ceramic matrix composites. Acta Materialia, 1996, 44, 279-287.	3.8	37
102	Detailed simulation of craze fibril failure at a crack tip in a glassy polymer. Acta Materialia, 1997, 45, 3555-3563.	3.8	37
103	Contact measurement of internal fluid flow within poly(n-isopropylacrylamide) gels. Journal of Chemical Physics, 2007, 127, 094906.	1.2	37
104	Surface Tension, Surface Energy, and Chemical Potential Due to Their Difference. Langmuir, 2013, 29, 11310-11316.	1.6	37
105	Propagation of a brittle fracture in a viscoelastic fluid. Soft Matter, 2011, 7, 9474.	1.2	36
106	Measurement of Interfacial Fracture Toughness Under Combined Mechanical and Thermal Stresses. Journal of Electronic Packaging, Transactions of the ASME, 1998, 120, 349-353.	1.2	35
107	Design of bio-inspired fibrillar interfaces for contact and adhesion â€" theory and experiments. Journal of Adhesion Science and Technology, 2007, 21, 1259-1280.	1.4	35
108	Detachment of stretched viscoelastic fibrils. European Physical Journal E, 2008, 25, 253-266.	0.7	35

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109	Stability of Nanoporous Materials. Macromolecular Rapid Communications, 2004, 25, 1487-1490.	2.0	34
110	The effect of aspect ratio on adhesion and stiffness for soft elastic fibres. Journal of the Royal Society Interface, 2011, 8, 1166-1175.	1.5	34
111	Viscoelastic crack healing and adhesion. Journal of Applied Physics, 1999, 86, 4232-4241.	1.1	33
112	Effect of the Monomer Ratio on the Strengthening of Polymer Phase Boundaries by Random Copolymers. Macromolecules, 1997, 30, 6727-6736.	2.2	32
113	Adhesion of a Fibrillar Interface on Wet and Rough Surfaces. Journal of Adhesion, 2010, 86, 39-61.	1.8	32
114	Axisymmetric membrane in adhesive contact with rigid substrates: Analytical solutions under large deformation. International Journal of Solids and Structures, 2012, 49, 672-683.	1.3	32
115	Failure of Elastomeric Polymers Due to Rate Dependent Bond Rupture. Langmuir, 2004, 20, 6052-6064.	1.6	31
116	Planar equilibrium shapes of a liquid drop on a membrane. Soft Matter, 2015, 11, 8960-8967.	1.2	31
117	Measurement of the fracture toughness of polymer-non-polymer interfaces. Journal of Materials Science, 1993, 28, 4234-4244.	1.7	30
118	The accuracy of the geometric assumptions in the JKR (JohnsonKendallRoberts) theory of adhesion. Journal of Adhesion Science and Technology, 2000, 14, 1297-1319.	1.4	29
119	Model-Independent Extraction of Adhesion Energy from Indentation Experiments. Langmuir, 2008, 24, 9401-9409.	1.6	29
120	Aspects of cohesive zone models and crack growth in rate-dependent materials. International Journal of Fracture, 1991, 52, 119-144.	1.1	29
121	Thermal Fluctuations Limit the Adhesive Strength of Compliant Solids. Journal of Adhesion, 2006, 82, 671-696.	1.8	28
122	Mechanics of Bioinspired and Biomimetic Fibrillar Interfaces. MRS Bulletin, 2007, 32, 492-495.	1.7	28
123	Molecular weight dependence of the fracture toughness of glassy polymers arising from crack propagation through a craze. Polymer Engineering and Science, 1995, 35, 419-425.	1.5	27
124	The energy release rate of a pressurized crack in soft elastic materials: effects of surface tension and large deformation. Soft Matter, 2014, 10, 7723-7729.	1.2	27
125	Interplay between intermolecular interactions and chain pullout in the adhesion of elastomer. Macromolecules, 1994, 27, 608-609.	2.2	26
126	Title is missing!. International Journal of Fracture, 2000, 104, 387-407.	1.1	26

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127	Title is missing!. International Journal of Fracture, 2001, 109, 1-28.	1.1	26
128	Friction of Poroelastic Contacts with Thin Hydrogel Films. Langmuir, 2018, 34, 9617-9626.	1.6	26
129	The Effective Thermal Conductivity of a Packing of Spheres. Journal of Applied Mechanics, Transactions ASME, 1990, 57, 789-791.	1.1	25
130	Barnacles resist removal by crack trapping. Journal of the Royal Society Interface, 2011, 8, 868-879.	1.5	25
131	Time-temperature equivalence in a PVA dual cross-link self-healing hydrogel. Journal of Rheology, 2018, 62, 991-1000.	1.3	25
132	The mechanics of self-similar crack growth in an elastic power-law creeping material. International Journal of Solids and Structures, 1986, 22, 357-372.	1.3	24
133	Estimation of interfacial shear strength: an application of a new statistical theory for single fiber composite test. Composites Science and Technology, 1999, 59, 2037-2046.	3.8	24
134	Rheological properties and adhesive failure of thin viscoelastic layers. Journal of Rheology, 2002, 46, 273-294.	1.3	24
135	Adhesive contact of a rigid circular cylinder to a soft elastic substrate â€" the role of surface tension. Soft Matter, 2015, 11, 3844-3851.	1.2	24
136	Time dependent fracture of soft materials: linear <i>versus</i> nonlinear viscoelasticity. Soft Matter, 2020, 16, 6163-6179.	1.2	24
137	Analysis of fragmentation in the single filament composite: Roles of fiber strength distributions and exclusion zone models. Journal of the Mechanics and Physics of Solids, 1996, 44, 1715-1737.	2.3	23
138	Strength statistics of adhesive contact between a fibrillar structure and a rough substrate. Journal of the Royal Society Interface, 2008, 5, 441-448.	1.5	23
139	Mechanism of Sliding Friction on a Film-Terminated Fibrillar Interface. Langmuir, 2009, 25, 2772-2780.	1.6	23
140	The surface stress of biomedical silicones is a stimulant of cellular response. Science Advances, 2020, 6, eaay0076.	4.7	23
141	Stress Relaxation Near the Tip of a Stationary Mode I Crack in a Poroelastic Solid. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	22
142	Modeling the failure of an adhesive layer in a peel test. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2277-2291.	2.4	21
143	Large deformation contact mechanics of long rectangular membranes. I. Adhesionless contact. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130424.	1.0	21
144	Mechanics of an adhesive tape in a zero degree peel test: effect of large deformation and material nonlinearity. Soft Matter, 2018, 14, 9681-9692.	1.2	21

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145	A boundary element method for calculating the K field for cracks along a bimaterial interface. Computational Mechanics, 1994, 15, 58-78.	2.2	20
146	Steam pressure induced in crack-like cavities in moisture saturated polymer matrix composites during rapid heating. International Journal of Solids and Structures, 2005, 42, 1055-1072.	1.3	20
147	Compliance of a microfibril subjected to shear and normal loads. Journal of the Royal Society Interface, 2008, 5, 1087-1097.	1.5	20
148	Adhesion of Microchannel-Based Complementary Surfaces. Langmuir, 2012, 28, 4213-4222.	1.6	20
149	Droplets on an elastic membrane: Configurational energy balance and modified Young equation. Journal of the Mechanics and Physics of Solids, 2020, 138, 103902.	2.3	20
150	Evaluation of hypersingular integrals in the boundary element method by complex variable techniques. International Journal of Solids and Structures, 1997, 34, 203-221.	1.3	19
151	Title is missing!. International Journal of Fracture, 2001, 110, 101-121.	1.1	19
152	Crack tip stress based kinetic fracture model of a PVA dual-crosslink hydrogel. Extreme Mechanics Letters, 2019, 29, 100457.	2.0	19
153	Stress Intensity Factors for Plate Bending and Shearing Problems. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 719-722.	1.1	18
154	A Reexamination of Residual Stresses in Thin Films and of the Validity of Stoneyâ€™s Estimate. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 267-273.	1.2	18
155	Effect of water incorporation on the diffusion of sodium in Type I silica glass. Journal of Non-Crystalline Solids, 2001, 286, 146-161.	1.5	18
156	A two-dimensional model for enhanced adhesion of film-terminated fibrillar interfaces by crack trapping. Journal of Applied Physics, 2008, 104, .	1.1	18
157	The effect of preload on the pull-off force in indentation tests of microfibre arrays. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 961-981.	1.0	18
158	Large Deformation and Adhesive Contact Studies of Axisymmetric Membranes. Langmuir, 2013, 29, 1407-1419.	1.6	18
159	Effect of large deformation and surface stiffening on the transmission of a line load on a neo-Hookean half space. Soft Matter, 2018, 14, 1847-1855.	1.2	18
160	Mechanical stress compromises multicomponent efflux complexes in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25462-25467.	3.3	18
161	A Thermo-Mechanical Approach for Fatigue Testing of Polymer Bimaterial Interfaces. Journal of Electronic Packaging, Transactions of the ASME, 1998, 120, 372-378.	1.2	17
162	Large deformation of soft elastic materials in adhesive contact with a rigid cylindrical flat punch. Soft Matter, 2008, 4, 1909.	1.2	17

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163	Finite strain stress fields near the tip of an interface crack between a soft incompressible elastic material and a rigid substrate. European Physical Journal E, 2009, 29, 61-72.	0.7	17
164	Delamination of moisture saturated graphite/polyimide composites due to rapid heating. Composites Part B: Engineering, 2010, 41, 568-577.	5.9	17
165	Lubricated steady sliding of a rigid sphere on a soft elastic substrate: hydrodynamic friction in the Hertz limit. Soft Matter, 2020, 16, 2760-2773.	1.2	17
166	Metamodeling of constitutive model using Gaussian process machine learning. Journal of the Mechanics and Physics of Solids, 2021, 154, 104532.	2.3	17
167	Steady state crack growth in viscoelastic solids: A comparative study. Journal of the Mechanics and Physics of Solids, 2022, 159, 104748.	2.3	17
168	On creep of unidirectional fiber composites with fiber damage. Acta Metallurgica Et Materialia, 1995, 43, 2615-2623.	1.9	16
169	Statistics of fragmentation in a single-fiber composite under matrix yielding and debonding with application to the strength of multi-fiber composites. Composites Science and Technology, 2000, 60, 2107-2128.	3.8	16
170	Decohesion of a rigid punch from an elastic layer: Transition from â€œflaw sensitiveâ€•to â€œflaw insensitiveâ€•regime. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3628-3637.	2.4	16
171	Coarse-Grained Model of SNARE-Mediated Docking. Biophysical Journal, 2015, 108, 2258-2269.	0.2	16
172	Surface tension measurement from the indentation of clamped thin films. Soft Matter, 2016, 12, 5121-5126.	1.2	16
173	Large deformation effect in Mode I crack opening displacement of an Agar gel: A comparison of experiment and theory. Extreme Mechanics Letters, 2016, 9, 66-73.	2.0	16
174	Mechanics of zero degree peel test on a tape â€"Âeffects of large deformation, material nonlinearity, and finite bond length. Extreme Mechanics Letters, 2019, 32, 100518.	2.0	16
175	Size effect on elastic stress concentrations in unidirectional fiber reinforced soft composites. Extreme Mechanics Letters, 2019, 33, 100573.	2.0	16
176	The extension of cracks at high temperature by growth and coalescence of voids. International Journal of Fracture, 1984, 25, 53-67.	1.1	15
177	Cohesive properties of nickel-alumina interfaces determined via simulation of ductile bridging experiments. International Journal of Solids and Structures, 1999, 36, 5573-5595.	1.3	15
178	An adaptive algorithm for tracking 3D bead displacements: application in biological experiments. Measurement Science and Technology, 2014, 25, 055701.	1.4	15
179	Effect of surface tension on the adhesion between a rigid flat punch and a semi-infinite neo-Hookean half-space. Extreme Mechanics Letters, 2016, 9, 310-316.	2.0	15
180	Crack propagation in a PVA dual-crosslink hydrogel: Crack tip fields measured using digital image correlation. Mechanics of Materials, 2019, 138, 103158.	1.7	15

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181	Theory of Chain Pull-Out and Stability of Weak Polymer Interfaces. 1. Macromolecules, 1996, 29, 4090-4100.	2.2	14
182	Effects of finite notch width on the fracture of chevron â€" notched specimens. International Journal of Fracture, 1998, 94, 189-198.	1.1	14
183	Characterization of underfill/passivation interfacial adhesion for direct chip attach assemblies using fracture toughness and hydro-thermal fatigue measurements. , 0, , .		14
184	An easy-to-implement numerical simulation method for adhesive contact problems involving asymmetric adhesive contact. Journal Physics D: Applied Physics, 2011, 44, 405303.	1.3	14
185	Effect of elastocapillarity on the swelling kinetics of hydrogels. Journal of the Mechanics and Physics of Solids, 2020, 145, 104132.	2.3	14
186	Analyses of the fiber push-out test. International Journal of Solids and Structures, 1993, 30, 1313-1329.	1.3	13
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