

David A Dillard

List of Publications by Year in descending order

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222
papers

4,527
citations

117625

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236
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docs citations

236
times ranked

2803
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture Mechanics Tests in Adhesively Bonded Joints: A Literature Review. <i>Journal of Adhesion</i> , 2014, 90, 955-992.	3.0	166
2	A theoretical and numerical study of a thin clamped circular film under an external load in the presence of a tensile residual stress. <i>Thin Solid Films</i> , 2003, 425, 150-162.	1.8	149
3	Viscoelastic Stress Analysis of Constrained Proton Exchange Membranes Under Humidity Cycling. <i>Journal of Fuel Cell Science and Technology</i> , 2009, 6, .	0.8	101
4	Two- and three-dimensional geometrical nonlinear finite elements for analysis of adhesive joints. <i>International Journal of Adhesion and Adhesives</i> , 2001, 21, 17-34.	2.9	91
5	A review of Winkler's foundation and its profound influence on adhesion and soft matter applications. <i>Soft Matter</i> , 2018, 14, 3669-3683.	2.7	90
6	Fatigue and creep to leak tests of proton exchange membranes using pressure-loaded blisters. <i>Journal of Power Sources</i> , 2009, 194, 873-879.	7.8	83
7	Structure-property relationships of void-free phenolic epoxy matrix materials. <i>Polymer</i> , 2000, 41, 5053-5062.	3.8	78
8	Environmental aging effects on the durability of electrically conductive adhesive joints. <i>International Journal of Adhesion and Adhesives</i> , 2003, 23, 235-250.	2.9	78
9	The effect of the T-stress on crack path selection in adhesively bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 2001, 21, 357-368.	2.9	77
10	The Effect of Mechanical Fatigue on the Lifetimes of Membrane Electrode Assemblies. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	70
11	The cracked lap shear specimen revisited—a closed form solution. <i>International Journal of Solids and Structures</i> , 1996, 33, 1725-1743.	2.7	62
12	Residual Stress Development in Adhesive Joints Subjected to Thermal Cycling. <i>Journal of Adhesion</i> , 1998, 65, 277-306.	3.0	61
13	Environmental aging of high-performance polymeric composites: Effects on durability. <i>Composites Science and Technology</i> , 1995, 53, 399-409.	7.8	57
14	A Stress Singularity Approach for the Prediction of Fatigue Crack Initiation in Adhesive Bonds. Part 1: Theory. <i>Journal of Adhesion</i> , 1999, 70, 119-138.	3.0	54
15	Determining the impact resistance of electrically conductive adhesives using a falling wedge test. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2003, 26, 554-562.	1.3	53
16	Title is missing!. <i>International Journal of Fracture</i> , 2002, 114, 167-190.	2.2	52
17	The Constrained Blister—A Nearly Constant Strain Energy Release Rate Test for Adhesives. <i>Journal of Adhesion</i> , 1989, 27, 197-211.	3.0	51
18	Characterizing the effect of print orientation on interface integrity of multi-material jetting additive manufacturing. <i>Additive Manufacturing</i> , 2018, 22, 447-461.	3.0	51

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19	The nonlinear viscoelastic characterization of graphite/epoxy composites. <i>Polymer Engineering and Science</i> , 1987, 27, 116-123.	3.1	49
20	Observations of Decreased Fracture Toughness for Mixed Mode Fracture Testing of Adhesively Bonded Joints. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 1515-1530.	2.6	49
21	Characterizing the fracture resistance of proton exchange membranes. <i>Journal of Power Sources</i> , 2008, 185, 374-380.	7.8	48
22	Stacked solder bumping technology for improved solder joint reliability. <i>Microelectronics Reliability</i> , 2001, 41, 1979-1992.	1.7	47
23	Solid-state cladding on thin automotive sheet metals enabled by additive friction stir deposition. <i>Journal of Materials Processing Technology</i> , 2021, 291, 117045.	6.3	46
24	Advances in Structural Adhesive Bonding. , 2010, , .		46
25	A bending-to-stretching analysis of the blister test in the presence of tensile residual stress. <i>International Journal of Solids and Structures</i> , 2005, 42, 2771-2784.	2.7	42
26	A study of the fracture efficiency parameter of blister tests for films and coatings. <i>Journal of Adhesion Science and Technology</i> , 1994, 8, 663-678.	2.6	40
27	On the Use of Pressure-Loaded Blister Tests to Characterize the Strength and Durability of Proton Exchange Membranes. <i>Journal of Fuel Cell Science and Technology</i> , 2009, 6, .	0.8	40
28	Time-dependent matrix cracking in cross-ply laminates. <i>Composites Science and Technology</i> , 1990, 39, 1-12.	7.8	39
29	Hygrothermal characterization of the viscoelastic properties of Gore-Select® 57 proton exchange membrane. <i>Mechanics of Time-Dependent Materials</i> , 2008, 12, 221-236.	4.4	39
30	A Test Method for Accelerated Humidity Conditioning and Estimation of Adhesive Bond Durability. <i>Journal of Adhesion</i> , 1997, 60, 153-162.	3.0	38
31	Analysis of cohesive failure in adhesively bonded joints with the SSPH meshless method. <i>International Journal of Adhesion and Adhesives</i> , 2014, 51, 67-80.	2.9	38
32	The Peninsula Blister Test: A High and Constant Strain Energy Release Rate Fracture Specimen for Adhesives. <i>Journal of Adhesion</i> , 1991, 33, 253-271.	3.0	36
33	A theoretical and numerical study of thin film delamination using the pull-off test. <i>International Journal of Solids and Structures</i> , 2004, 41, 717-730.	2.7	36
34	The effect of surface treatments on interfacial fatigue crack initiation in aluminum/epoxy bonds. <i>International Journal of Fracture</i> , 2002, 114, 191-202.	2.2	35
35	Interphases Developed from Fiber Sizings and Their Chemical-Structural Relationship to Composite Compressive Performance. <i>Journal of Adhesion</i> , 1994, 45, 43-57.	3.0	34
36	Physical aging behavior of high-performance composites. <i>Composites Science and Technology</i> , 1995, 54, 405-415.	7.8	34

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37	Effect of Mode-Mixity on the Fracture Toughness of Ti-6Al-4V/FM-5 Adhesive Joints. International Journal of Fracture, 1999, 96, 215-228.	2.2	34
38	Development of a simple mixed-mode fracture test and the resulting fracture energy envelope for an adhesive bond. International Journal of Fracture, 2007, 148, 261-271.	2.2	34
39	Evaluating the time and temperature dependent biaxial strength of Gore-Select [®] series 57 proton exchange membrane using a pressure loaded blister test. Journal of Power Sources, 2010, 195, 527-531.	7.8	34
40	Impact damage resistance and tolerance of high-performance polymeric composites subjected to environmental aging. Composites Science and Technology, 1996, 56, 1129-1140.	7.8	33
41	Mixed mode fracture testing of adhesively bonded wood specimens using a dual actuator load frame. Holzforschung, 2010, 64, .	1.9	33
42	Experimental Measurement of Stress and Strain in Nafion Membrane during Hydration Cycles. Journal of the Electrochemical Society, 2011, 159, B173-B184.	2.9	33
43	Transient Moisture Effects in Fibers and Composite Materials. Journal of Composite Materials, 1990, 24, 994-1009.	2.4	32
44	Transient moisture effects in materials. Journal of Materials Science, 1991, 26, 5113-5126.	3.7	31
45	Temperature and stress effects in the creep of aramid fibers under transient moisture conditions and discussions on the mechanisms. Journal of Polymer Science, Part B: Polymer Physics, 1992, 30, 1391-1400.	2.1	31
46	Deflections and buckling of a bent elastica in contact with a flat surface. International Journal of Solids and Structures, 1999, 36, 1209-1229.	2.7	31
47	Numerical analysis of directionally unstable crack propagation in adhesively bonded joints. International Journal of Solids and Structures, 2001, 38, 6907-6924.	2.7	31
48	Adhesion of a flat punch adhered to a thin pre-stressed membrane. Journal of Adhesion, 2003, 79, 123-140.	3.0	31
49	Effect of residual stress on the energy release rate of wedge and DCB test specimens. International Journal of Adhesion and Adhesives, 2006, 26, 285-294.	2.9	31
50	Mullins effect recovery of a nanoparticle-filled polymer. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2207-2214.	2.1	31
51	A Stress Singularity Approach for the Prediction of Fatigue Crack Initiation in Adhesive Bonds. Part 2: Experimental. Journal of Adhesion, 1999, 70, 139-154.	3.0	30
52	Finite element analysis of bonded insulated rail joints. International Journal of Adhesion and Adhesives, 2008, 28, 142-150.	2.9	30
53	Design and characterization of thermosetting polyimide structural adhesive and composite matrix systems. Journal of Polymer Science Part A, 1997, 35, 2943-2954.	2.3	29
54	Analysis of the Notched Coating Adhesion Test. Journal of Adhesion, 1999, 69, 99-120.	3.0	29

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55	Impact of material concentration and distribution on composite parts manufactured via multi-material jetting. <i>Rapid Prototyping Journal</i> , 2018, 24, 872-879.	3.2	29
56	Constitutive equation for elastic indentation of a thin-walled bio-mimetic microcapsule by an atomic force microscope tip. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 27, 241-248.	5.0	28
57	Effect of boundary conditions and spacers on single-lap joints loaded in tension or compression. <i>International Journal of Adhesion and Adhesives</i> , 2006, 26, 629-638.	2.9	28
58	Bending of Plates on Thin Elastomeric Foundations. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1989, 56, 382-386.	2.2	27
59	Effect of work of adhesion on contact of a pressurized blister with a flat surface. <i>International Journal of Adhesion and Adhesives</i> , 2003, 23, 207-214.	2.9	27
60	Strain energy release rates of a pressure sensitive adhesive measured by the shaft-loaded blister test. <i>Journal of Adhesion</i> , 2003, 79, 69-97.	3.0	27
61	Evaluating the Rate-Dependent Fracture Toughness of an Automotive Adhesive. <i>Journal of Adhesion</i> , 2008, 84, 143-163.	3.0	27
62	Crack Path Selection in Adhesively-Bonded Joints: The Role of Material Properties. <i>Journal of Adhesion</i> , 2001, 75, 405-434.	3.0	26
63	Rate-Dependent Cohesive Zone Modeling of Unstable Crack Growth in an Epoxy Adhesive. <i>Mechanics of Advanced Materials and Structures</i> , 2009, 16, 12-19.	2.6	26
64	Characterizing fracture energy of proton exchange membranes using a knife slit test. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 333-343.	2.1	26
65	Characterizing acrylic foam pressure sensitive adhesive tapes for structural glazing applicationsâ€”Part I: DMA and ramp-to-fail results. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 639-649.	2.9	26
66	Active Membranes on Rigidity Tunable Foundations for Programmable, Rapidly Switchable Adhesion. <i>Advanced Materials Technologies</i> , 2020, 5, 2000676.	5.8	26
67	A tapered bondline thickness double cantilever beam (DCB) specimen geometry for combinatorial fracture studies of adhesive bonds. <i>International Journal of Adhesion and Adhesives</i> , 2014, 55, 155-160.	2.9	25
68	Revisiting the generalized scaling law for adhesion: role of compliance and extension to progressive failure. <i>Soft Matter</i> , 2017, 13, 7529-7536.	2.7	24
69	An Elementary Plate Theory Prediction for Strain Energy Release Rate of the Constrained Blister Test. <i>Journal of Adhesion</i> , 1990, 31, 177-189.	3.0	23
70	Characterizing acrylic foam pressure sensitive adhesive tapes for structural glazing applicationsâ€”Part II: Creep rupture results. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 650-659.	2.9	23
71	On the Use of a Driven Wedge Test to Acquire Dynamic Fracture Energies of Bonded Beam Specimens. <i>Journal of Adhesion</i> , 2011, 87, 395-423.	3.0	23
72	Spiral Tunneling Cracks Induced by Environmental Stress Cracking in LaRCâ„¢-TPI Adhesives. <i>Journal of Adhesion</i> , 1994, 44, 51-67.	3.0	22

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73	Tough, void-free, flame retardant phenolic matrix materials. <i>Construction and Building Materials</i> , 1999, 13, 343-353.	7.2	22
74	Linear Hygrothermal Viscoelastic Characterization of Nafion NRE 211 Proton Exchange Membrane. <i>Fuel Cells</i> , 2012, 12, 787-799.	2.4	22
75	Comparison of the performance of SSPH and MLS basis functions for two-dimensional linear elastostatics problems including quasistatic crack propagation. <i>Computational Mechanics</i> , 2013, 51, 19-34.	4.0	22
76	Using the fracture efficiency to compare adhesion tests. <i>International Journal of Solids and Structures</i> , 1997, 34, 509-525.	2.7	21
77	Cathodic weakening of elastomer-to-metal adhesive bonds: accelerated testing and modeling. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1235-1264.	2.6	21
78	Buckling of elastic beams embedded in granular media. <i>Extreme Mechanics Letters</i> , 2016, 9, 237-244.	4.1	21
79	Environmental aging of the Ti-6Al-4V/FM-5 polyimide adhesive bonded system: implications of physical and chemical aging on durability. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 615-637.	2.6	20
80	Elastic Analysis of the Loop Tack Test for Pressure Sensitive Adhesives. <i>Journal of Adhesion</i> , 2001, 76, 37-53.	3.0	20
81	Effect of substrate flexibility on solder joint reliability. <i>Microelectronics Reliability</i> , 2002, 42, 1883-1891.	1.7	20
82	Bimaterial curvature measurements for the CTE of adhesives: optimization, modeling, and stability. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 149-164.	2.6	20
83	Viscoelastic Stress Model and Mechanical Characterization of Perfluorosulfonic Acid (PFSA) Polymer Electrolyte Membranes. , 2005, , 161.		20
84	A Model for the Diffusion of Moisture in Adhesive Joints. Part III: Numerical Simulations. <i>Journal of Adhesion</i> , 1989, 27, 41-62.	3.0	19
85	Assessing the effects of shear, compression, and peel on the cathodic degradation of elastomer-to-metal adhesive bonds. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 147-163.	2.9	19
86	Analysis of tapered, adhesively bonded, insulated rail joints. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2007, 221, 195-204.	2.0	19
87	Stresses between Adherends with Different Curvatures. <i>Journal of Adhesion</i> , 1988, 26, 59-69.	3.0	18
88	A Model for the Diffusion of Moisture in Adhesive Joints. Part I: Equations Governing Diffusion. <i>Journal of Adhesion</i> , 1989, 27, 1-18.	3.0	18
89	The Effect of Compressibility on the Stress Distributions in Thin Elastomeric Blocks and Annular Bushings. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992, 59, 902-908.	2.2	18
90	Network Structure and Properties of Dimethacrylate-Styrene Matrix Materials. <i>Journal of Composite Materials</i> , 2000, 34, 1512-1528.	2.4	18

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91	Postbuckling and vibration of a flexible strip clamped at its ends to a hinged substrate. International Journal of Solids and Structures, 2004, 41, 859-870.	2.7	18
92	Advances in anaerobic and cyanoacrylate adhesives. , 2010, , 96-131.		18
93	Numerical analysis of the dual actuator load test applied to fracture characterization of bonded joints. International Journal of Solids and Structures, 2011, 48, 1572-1578.	2.7	18
94	Debonding of confined elastomeric layer using cohesive zone model. International Journal of Adhesion and Adhesives, 2016, 66, 114-127.	2.9	18
95	An Evaluation of Chemical Aging/Oxidation in High Performance Composites Using the Vickers Micro-Indentation Technique. Journal of Composite Materials, 1996, 30, 210-230.	2.4	17
96	Effect of physical aging and variable stress history on the strain response of polymeric composites. Composites Science and Technology, 1997, 57, 1271-1279.	7.8	17
97	Pressure and shear stress distributions of an elastomer constrained by a cylinder of finite length. International Journal of Solids and Structures, 2001, 38, 6839-6849.	2.7	17
98	Environmental aging effects on thermal and mechanical properties of electrically conductive adhesives. Journal of Adhesion, 2003, 79, 699-723.	3.0	17
99	Advances in polyurethane structural adhesives. , 2010, , 35-65.		17
100	The development of a modified double-cantilever-beam specimen for measuring the fracture energy of rubber to metal bonds. Experimental Mechanics, 1988, 28, 38-44.	2.0	16
101	A stable numerical solution method for in-plane loading of nonlinear viscoelastic laminated orthotropic materials. Composite Structures, 1989, 13, 251-274.	5.8	16
102	Fracture characterization of bonded joints using the dual actuator load apparatus. Journal of Adhesion Science and Technology, 2014, 28, 512-524.	2.6	16
103	The mechano-sorptive behavior of flexible water-blown polyurethane foams. Journal of Applied Polymer Science, 1993, 50, 293-301.	2.6	15
104	Numerical validation of a crack equivalent method for mixed-mode I+II fracture characterization of bonded joints. Engineering Fracture Mechanics, 2013, 107, 38-47.	4.3	15
105	Photoactive Polyesters Containing <i>o</i> -Nitro Benzyl Ester Functionality for Photodeactivatable Adhesion. Journal of Adhesion, 2013, 89, 548-558.	3.0	15
106	Effect of work of adhesion on contact of an elastica with a flat surface. Journal of Adhesion Science and Technology, 2001, 15, 565-581.	2.6	14
107	Characterization of mixed-mode I/II fracture properties of adhesively bonded yellow-poplar by a dual actuator test frame instrument. Holzforschung, 2012, 66, 623-631.	1.9	14
108	Characterizing fracture performance and the interaction of propagating cracks with locally weakened interfaces in adhesive joints. International Journal of Adhesion and Adhesives, 2018, 82, 196-205.	2.9	14

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109	Characterizing Dynamic Fracture Behavior of Adhesive Joints under Quasi-Static and Impact Loading. Journal of ASTM International, 2005, 2, 12955.	0.2	14
110	Multi-layer in-situ for evaluation of dynamic mechanical properties of pressure sensitive adhesives. International Journal of Adhesion and Adhesives, 2007, 27, 536-546.	2.9	13
111	Advances in structural silicone adhesives. , 2010, , 66-95.		13
112	Numerical Analysis of the Constrained Blister Test. Journal of Adhesion, 1990, 33, 63-74.	3.0	12
113	A Comparison of Energy Release Rates in Different Membrane Blister and Peel Tests. Journal of Adhesion, 1996, 56, 59-78.	3.0	12
114	On the problem of shear-locking in finite elements based on shear deformable plate theory. International Journal of Solids and Structures, 1997, 34, 859-875.	2.7	12
115	Developments in testing adhesive joints. , 2010, , 389-436.		12
116	Strain rate and temperature dependence of a nanoparticle-filled poly(dimethylsiloxane) undergoing shear deformation. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 929-937.	2.1	12
117	Effect of confinement and interfacial adhesion on peeling of a flexible plate from an elastomeric layer. International Journal of Solids and Structures, 2017, 110-111, 385-403.	2.7	12
118	Embedded piezoelectric sensors to measure peel stresses in adhesive joints. Experimental Mechanics, 1994, 34, 194-201.	2.0	11
119	Fundamentals of stress transfer in bonded systems. , 2002, , 1-44.		11
120	EVALUATION OF THE LONG-TERM DURABILITY OF HIGH-PERFORMANCE POLYIMIDE ADHESIVES FOR BONDING TITANIUM. Journal of Adhesion, 2004, 80, 1153-1172.	3.0	11
121	Advances in nanoparticle reinforcement in structural adhesives. , 2010, , 151-182.		11
122	Advances in acrylic structural adhesives. , 2010, , 132-150.		11
123	Morphological Factors Affecting the Behavior of Water in Proton Exchange Membrane Materials. ECS Transactions, 2011, 41, 87-100.	0.5	11
124	Development of a High Precision Method to Characterize Poisson's Ratios of Encapsulant Gels Using a Flat Disk Configuration. Experimental Mechanics, 2012, 52, 1397-1405.	2.0	11
125	Characterizing the constitutive properties and developing a stress model for adhesive bond-line readout. International Journal of Adhesion and Adhesives, 2013, 40, 149-157.	2.9	11
126	Friction of extensible strips: An extended shear lag model with experimental evaluation. International Journal of Solids and Structures, 2017, 124, 125-134.	2.7	11

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127	Examining T-peel specimen bond length effects: Experimental and numerical explorations of transitions to steady-state debonding. <i>International Journal of Solids and Structures</i> , 2019, 180-181, 72-83.	2.7	11
128	Real-time characterization of hydrogel viscoelastic properties and sol-gel phase transitions using cantilever sensors. <i>Journal of Rheology</i> , 2020, 64, 837-850.	2.6	11
129	Analysis of interfacial stresses for elastomeric disks in compression. <i>Polymer Engineering and Science</i> , 1988, 28, 655-659.	3.1	10
130	A study of the mechanism of cathodic debonding of adhesively bonded neoprene rubber from steel. <i>Journal of Adhesion Science and Technology</i> , 1988, 2, 77-94.	2.6	10
131	Viscoelastic Behavior of Laminated Composite Materials. <i>Composite Materials Series</i> , 1991, , 339-384.	0.2	10
132	Micromechanical Model of Composite Materials Subjected to Ball Indentation. <i>Journal of Composite Materials</i> , 1993, 27, 303-329.	2.4	10
133	An Evaluation of Acrylic Pressure Sensitive Adhesive Tapes for Bonding Wood in Building Construction Applications. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 1349-1381.	2.6	10
134	On buckling of a thin plate on an elastomeric foundation. <i>International Journal of Mechanical Sciences</i> , 2018, 149, 429-435.	6.7	10
135	Mechanical properties of tissue-mimicking composites formed by material jetting additive manufacturing. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104938.	3.1	10
136	A mechanistic evaluation of cathodic debonding of elastomer to metal bonds. <i>Journal of Adhesion Science and Technology</i> , 1989, 3, 421-440.	2.6	9
137	Crack path selection in adhesively bonded joints. , 2002, , 389-442.		9
138	Plasma and Silane Surface Modification of SiC/Si: Adhesion and Durability for the Epoxy-SiC System. <i>Journal of Adhesion</i> , 2006, 82, 331-353.	3.0	9
139	Cathodic delamination of elastomer-to-metal adhesive joints: Experimental data and empirical modeling. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 108-121.	2.9	9
140	Tests of Adhesives to Augment Nails in Wind Uplift Resistance of Roofs. <i>Journal of Structural Engineering</i> , 2009, 135, 88-93.	3.4	9
141	Designing adhesive joints for fatigue and creep load conditions. , 2010, , 469-515.		9
142	Improving adhesive joint design using fracture mechanics. , 2010, , 350-388.		9
143	Peel Stress Distributions between Adherends with Varying Curvature Mismatch. <i>Journal of Adhesion</i> , 1990, 33, 107-122.	3.0	8
144	Nondestructive evaluation of model adhesive joints by PVDF piezoelectric film sensors. <i>Experimental Mechanics</i> , 1993, 33, 102-109.	2.0	8

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145	Solvent Effects on High Temperature Polyimides and their Bonded Joints. Journal of Adhesion, 1999, 69, 83-98.	3.0	8
146	Experiments on contact of a loop with a substrate to measure work of adhesion. Journal of Adhesion, 2003, 79, 559-579.	3.0	8
147	EXPERIMENTS AND INELASTIC ANALYSIS OF THE LOOP TACK TEST FOR PRESSURE-SENSITIVE ADHESIVES. Journal of Adhesion, 2004, 80, 203-221.	3.0	8
148	Tear Resistance of Proton Exchange Membranes. , 2005, , 153.		8
149	Advances in bonding plastics. , 2010, , 237-264.		8
150	Using standard adhesion tests to characterize performance of material system options for insulated rail joints. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2011, 225, 509-522.	2.0	8
151	The implications of the fiber truss concept for creep properties of laminated composites. Composite Structures, 1989, 11, 85-100.	5.8	7
152	Dye Penetrant Induced Micro cracking in High Performance Thermoplastic Polyimide Composites. Journal of Composite Materials, 1998, 32, 31-48.	2.4	7
153	Postbuckling of Elastic Columns with Second-Mode Imperfection. Journal of Engineering Mechanics - ASCE, 2006, 132, 898-901.	2.9	7
154	Dynamic Fracture Analysis of Adhesively Bonded Joints Using Explicit Methods. AIAA Journal, 2007, 45, 2778-2784.	2.6	7
155	Selecting the right joint design and fabrication techniques. , 2010, , 295-315.		7
156	Equilibria and instabilities of a Slinky: Discrete model. International Journal of Non-Linear Mechanics, 2014, 65, 236-244.	2.6	7
157	Molecular modeling of the elastomeric properties of repeating units and building blocks of resilin, a disordered elastic protein. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 110-121.	3.1	7
158	Tear propagation in vaginal tissue under inflation. Acta Biomaterialia, 2021, 127, 193-204.	8.3	7
159	A Preliminary Study of the Use of Kynar® Piezoelectric Film to Measure Peel Stresses in Adhesive Joints. Journal of Adhesion, 1989, 29, 245-255.	3.0	6
160	A Model for the Diffusion of Moisture in Adhesive Joints. Part II: Experimental. Journal of Adhesion, 1989, 27, 19-40.	3.0	6
161	Anisotropy in the thermal shrinkage of polyimide film. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 3222-3229.	2.1	6
162	Adhesive Layer Shrinkage in Bonds Subjected to Thermal Cycling. Mechanics of Time-Dependent Materials, 2003, 7, 21-39.	4.4	6

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163	Improvements in bonding metals (steel, aluminium). , 2010, , 185-236.		6
164	Estimating the Stresses in Linear Viscoelastic Sealants Subjected to Thermally-Driven Deformations. Journal of Adhesion, 2011, 87, 162-178.	3.0	6
165	Collapse of Heavy Cantilevered Elastica With Frictional Internal Support. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	6
166	Analysis of Carbon Nanotubes and Graphene Nanoribbons With Folded Racket Shapes. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	1.4	6
167	Effect of areal density and fiber orientation on the deformation of thermomechanical bonds in a nonwoven fabric. Polymer Engineering and Science, 2019, 59, 311-322.	3.1	6
168	Fracture characterization of overmold composite adhesion. Journal of Thermoplastic Composite Materials, 2022, 35, 977-997.	4.2	6
169	TESTING OF VISCOELASTICITY OF SINGLE FIBERS UNDER TRANSIENT MOISTURE CONDITIONS. Experimental Techniques, 1991, 15, 47-49.	1.5	5
170	Improving Bonding to Piezoelectric Poly(vinylidene fluoride) for Sensor Applications. Journal of Adhesion, 1992, 36, 213-227.	3.0	5
171	The use of an eccentric compressive load to aid in precracking single edge notch bend specimens. Journal of Materials Science Letters, 1993, 12, 1258-1260.	0.5	5
172	Fracture mechanics of adhesive bonds. , 2005, , 189-208.		5
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