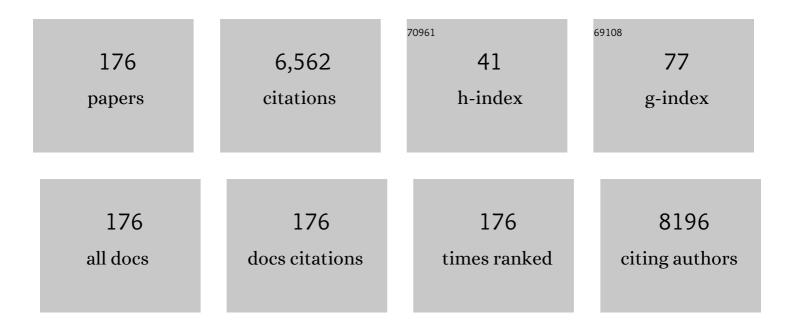
List of Publications by Year in descending order

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LOSEDH RUDC

#	Article	IF	CITATIONS
1	An Artificial Solid Electrolyte Interphase with High Liâ€Ion Conductivity, Mechanical Strength, and Flexibility for Stable Lithium Metal Anodes. Advanced Materials, 2017, 29, 1605531.	11.1	747
2	A Silicaâ€Aerogelâ€Reinforced Composite Polymer Electrolyte with High Ionic Conductivity and High Modulus. Advanced Materials, 2018, 30, e1802661.	11.1	392
3	Design and understanding of encapsulated perovskite solar cells to withstand temperature cycling. Energy and Environmental Science, 2018, 11, 144-150.	15.6	314
4	Engineering Stress in Perovskite Solar Cells to Improve Stability. Advanced Energy Materials, 2018, 8, 1802139.	10.2	271
5	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics. Science, 2022, 375, 1411-1417.	6.0	230
6	Interlayer adhesion in roll-to-roll processed flexible inverted polymer solar cells. Solar Energy Materials and Solar Cells, 2012, 97, 171-175.	3.0	184
7	Adhesion and reliability of copper interconnects with Ta and TaN barrier layers. Journal of Materials Research, 2000, 15, 203-211.	1.2	165
8	Plasticity contributions to interface adhesion in thin-film interconnect structures. Journal of Materials Research, 2000, 15, 2758-2769.	1.2	164
9	Mechanical integrity of solution-processed perovskite solar cells. Extreme Mechanics Letters, 2016, 9, 353-358.	2.0	150
10	Local heating associated with crack tip plasticity in Zr–Ti–Ni–Cu–Be bulk amorphous metals. Journal of Materials Research, 1999, 14, 638-643.	1.2	149
11	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. ACS Energy Letters, 2018, 3, 1225-1232.	8.8	148
12	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702116.	10.2	130
13	Broadband Emission with a Massive Stokes Shift from Sulfonium Pb–Br Hybrids. Chemistry of Materials, 2017, 29, 7083-7087.	3.2	123
14	An Intrinsically Stretchable Highâ€Performance Polymer Semiconductor with Low Crystallinity. Advanced Functional Materials, 2019, 29, 1905340.	7.8	120
15	Decohesion Kinetics of PEDOT:PSS Conducting Polymer Films. Advanced Functional Materials, 2014, 24, 1325-1332.	7.8	110
16	Cohesion and device reliability in organic bulk heterojunction photovoltaic cells. Solar Energy Materials and Solar Cells, 2012, 99, 182-189.	3.0	91
17	Behavior of Cyclic Fatigue Cracks in Monolithic Silicon Nitride. Journal of the American Ceramic Society, 1995, 78, 2291-2300.	1.9	89
18	Moisture-assisted subcritical debonding of a polymer/metal interface. Journal of Applied Physics, 2002, 91, 1293-1303.	1.1	85

JOSEPH BURG

#	Article	IF	CITATIONS
19	Computational prediction of the molecular configuration of three-dimensional network polymers. Nature Materials, 2021, 20, 1422-1430.	13.3	84
20	Rapid Open-Air Fabrication of Perovskite Solar Modules. Joule, 2020, 4, 2675-2692.	11.7	78
21	Scaffold-reinforced perovskite compound solar cells. Energy and Environmental Science, 2017, 10, 2500-2508.	15.6	77
22	Influence of Bulky Organoâ€Ammonium Halide Additive Choice on the Flexibility and Efficiency of Perovskite Light‣mitting Devices. Advanced Functional Materials, 2018, 28, 1802060.	7.8	76
23	Thermalâ€Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. Advanced Materials, 2020, 32, e1907030.	11.1	75
24	Superior mechanical properties of dense and porous organic/inorganic hybrid thin films. Journal of Sol-Gel Science and Technology, 2008, 48, 187-193.	1.1	68
25	Molecular Origins of the Mechanical Behavior of Hybrid Glasses. Advanced Functional Materials, 2010, 20, 2884-2892.	7.8	68
26	Environmental mechanisms of debonding in photovoltaic backsheets. Solar Energy Materials and Solar Cells, 2014, 120, 87-93.	3.0	66
27	High Performance Rollâ€toâ€Roll Produced Fullereneâ€Free Organic Photovoltaic Devices via Temperatureâ€Controlled Slot Die Coating. Advanced Functional Materials, 2019, 29, 1805825.	7.8	64
28	Adhesion of benzocyclobutene-passivated silicon in epoxy layered structures. Journal of Materials Research, 2001, 16, 243-255.	1.2	62
29	Atmospheric Plasma Deposited Dense Silica Coatings on Plastics. ACS Applied Materials & Interfaces, 2012, 4, 6587-6598.	4.0	62
30	Rapid Aqueous Spray Fabrication of Robust NiO _x : A Simple and Scalable Platform for Efficient Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803600.	10.2	62
31	Molecular-Scale Understanding of Cohesion and Fracture in P3HT:Fullerene Blends. ACS Applied Materials & Interfaces, 2015, 7, 9957-9964.	4.0	60
32	A catalytic alloy approach for graphene on epitaxial SiC on silicon wafers. Journal of Materials Research, 2015, 30, 609-616.	1.2	60
33	Molecular Intercalation and Cohesion of Organic Bulk Heterojunction Photovoltaic Devices. Advanced Functional Materials, 2013, 23, 2863-2871.	7.8	59
34	Entanglements in <scp>P3HT</scp> and their influence on thinâ€film mechanical properties: Insights from molecular dynamics simulations. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 934-942.	2.4	59
35	Fracture of nanoporous methyl silsesquioxane thin-film glasses. Journal of Materials Research, 2006, 21, 882-894.	1.2	58
36	Indentation fracture toughness of amorphous steel. Journal of Materials Research, 2005, 20, 783-786.	1.2	51

JOSEPH BURG

#	Article	IF	CITATIONS
37	Fundamental limits of material toughening in molecularly confined polymers. Nature Materials, 2016, 15, 294-298.	13.3	49
38	Adhesion of polymer thin-films and patterned lines. International Journal of Fracture, 2003, 119/120, 475-485.	1.1	48
39	Fracture and Subcritical Crackâ€Growth Behavior of Yâ€Siâ€Alâ€Oâ€N Glasses and Si ₃ N ₄ Ceramics. Journal of the American Ceramic Society, 2000, 83, 585-596.	1.9	46
40	Cross-Linkable, Solvent-Resistant Fullerene Contacts for Robust and Efficient Perovskite Solar Cells with Increased <i>J</i> _{SC} and <i>V</i> _{OC} . ACS Applied Materials & Interfaces, 2016, 8, 25896-25904.	4.0	45
41	Understanding age-induced alterations to the biomechanical barrier function of human stratum corneum. Journal of Dermatological Science, 2015, 80, 94-101.	1.0	44
42	Rapid route to efficient, scalable, and robust perovskite photovoltaics in air. Energy and Environmental Science, 2018, 11, 2102-2113.	15.6	43
43	Hole-Transport Layer Molecular Weight and Doping Effects on Perovskite Solar Cell Efficiency and Mechanical Behavior. ACS Applied Materials & Interfaces, 2019, 11, 23757-23764.	4.0	42
44	Mechanical Relaxation Time Scales in a Zr–Ti–Ni–Cu–Be Bulk Metallic Glass. Journal of Materials Research, 2002, 17, 1254-1257.	1.2	41
45	A Mechanomodulatory Device to Minimize Incisional Scar Formation. Advances in Wound Care, 2013, 2, 185-194.	2.6	41
46	Understanding mechanical behavior and reliability of organic electronic materials. MRS Bulletin, 2017, 42, 115-123.	1.7	39
47	Improved stability and efficiency of perovskite solar cells with submicron flexible barrier films deposited in air. Journal of Materials Chemistry A, 2017, 5, 22975-22983.	5.2	38
48	Synthesis and use of a hyper-connecting cross-linking agent in the hole-transporting layer of perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 19267-19279.	5.2	38
49	Comment on "Light-induced lattice expansion leads to high-efficiency perovskite solar cells― Science, 2020, 368, .	6.0	38
50	Adhesion and debonding kinetics of photovoltaic encapsulation in moist environments. Progress in Photovoltaics: Research and Applications, 2016, 24, 183-194.	4.4	37
51	Effects of UV cure on glass structure and fracture properties of nanoporous carbon-doped oxide thin films. Journal of Applied Physics, 2008, 104, 043513.	1.1	32
52	Molecular structure and fracture properties of ZrOX/Epoxysilane hybrid films. Journal of Sol-Gel Science and Technology, 2010, 55, 360-368.	1.1	31
53	Subcritical Crackâ€Growth Behavior of Borosilicate Class under Cyclic Loads: Evidence of a Mechanical Fatigue Effect. Journal of the American Ceramic Society, 1997, 80, 773-776.	1.9	30
54	Effects of fatigue loading and PMMA precoating on the adhesion and subcritical debonding of prosthetic-PMMA interfaces. , 2000, 51, 172-183.		30

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55	Effect of solution pH on the accelerated cracking of nanoporous thin-film glasses. Journal of Materials Research, 2005, 20, 680-687.	1.2	30
56	Adhesion Measurement of Interfaces in Multilayer Interconnect Structures. Materials Research Society Symposia Proceedings, 1997, 473, 3.	0.1	29
57	Controlling Interdiffusion, Interfacial Composition, and Adhesion in Polymer Solar Cells. Advanced Materials Interfaces, 2014, 1, 1400135.	1.9	28
58	Highly Transparent Multifunctional Bilayer Coatings on Polymers Using Low-Temperature Atmospheric Plasma Deposition. ACS Nano, 2014, 8, 7186-7191.	7.3	27
59	Beyond Fullerenes: Indacenodithiophene-Based Organic Charge-Transport Layer toward Upscaling of Low-Cost Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 22143-22155.	4.0	27
60	Temperature dependence of positron annihilation in a Zr–Ti–Ni–Cu–Be bulk metallic glass. Journal of Materials Research, 2003, 18, 2021-2024.	1.2	25
61	Depth dependence of ultraviolet curing of organosilicate low-k thin films. Journal of Applied Physics, 2008, 103, .	1.1	25
62	Adhesion and degradation of hard coatings on poly (methyl methacrylate) substrates. Thin Solid Films, 2011, 519, 1907-1913.	0.8	25
63	Toward Sustainable Multifunctional Coatings Containing Nanocellulose in a Hybrid Glass Matrix. ACS Nano, 2018, 12, 5495-5503.	7.3	25
64	Open Air Plasma Deposition of Superhydrophilic Titania Coatings. Advanced Functional Materials, 2019, 29, 1806421.	7.8	25
65	Perspectives on intrinsic toughening strategies and passivation of perovskite films with organic additives. Solar Energy Materials and Solar Cells, 2020, 209, 110433.	3.0	25
66	Engineering the Mechanical Properties of Polymer Networks with Precise Doping of Primary Defects. ACS Applied Materials & Interfaces, 2017, 9, 42217-42224.	4.0	23
67	Open-Air Plasma-Deposited Multilayer Thin-Film Moisture Barriers. ACS Applied Materials & Interfaces, 2020, 12, 26405-26412.	4.0	22
68	Fatigue crack growth in micro-machined single-crystal silicon. Journal of Materials Research, 2004, 19, 2635-2640.	1.2	21
69	Hyperconnected molecular glass network architectures with exceptional elastic properties. Nature Communications, 2017, 8, 1019.	5.8	21
70	Tearing and reliability of photovoltaic module backsheets. Progress in Photovoltaics: Research and Applications, 2019, 27, 693-705.	4.4	21
71	Elastic and thermal expansion asymmetry in dense molecular materials. Nature Materials, 2016, 15, 974-980.	13.3	20
72	Conductive Transparent TiN _x /TiO ₂ Hybrid Films Deposited on Plastics in Air Using Atmospheric Plasma Processing. Advanced Functional Materials, 2014, 24, 3075-3081.	7.8	19

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73	Aqueous solution diffusion in hydrophobic nanoporous thin-film glasses. Journal of Materials Research, 2007, 22, 710-718.	1.2	18
74	Dual Precursor Atmospheric Plasma Deposition of Transparent Bilayer Protective Coatings on Plastics. ACS Applied Materials & Interfaces, 2015, 7, 17929-17934.	4.0	18
75	Role of Stress Factors on the Adhesion of Interfaces in R2R Fabricated Organic Photovoltaics. Advanced Energy Materials, 2016, 6, 1501927.	10.2	18
76	Interface Separation in Residually-Stressed Thin-Film Structures. Journal of Materials Science, 2003, 11, 309-317.	1.2	17
77	Toughening Thinâ€Film Structures with Ceramic‣ike Amorphous Silicon Carbide Films. Small, 2014, 10, 253-257.	5.2	17
78	The effect of anneal, solar irradiation and humidity on the adhesion/cohesion properties of P3HT:PCBM based inverted polymer solar cells. , 2012, , .		15
79	The Role of Catalyst Adhesion in ALD-TiO ₂ Protection of Water Splitting Silicon Anodes. ACS Applied Materials & Interfaces, 2018, 10, 37103-37109.	4.0	15
80	Time-dependant intercellular delamination of human stratum corneum. Journal of Materials Science, 2007, 42, 8986-8994.	1.7	14
81	Integration Challenges of Nanoporous Low Dielectric Constant Materials. IEEE Transactions on Device and Materials Reliability, 2009, 9, 509-515.	1.5	14
82	Crystallization kinetics of rapid spray plasma processed multiple cation perovskites in open air. Journal of Materials Chemistry A, 2020, 8, 169-176.	5.2	14
83	High-Throughput Open-Air Plasma Activation of Metal-Oxide Thin Films with Low Thermal Budget. ACS Applied Materials & Interfaces, 2018, 10, 37223-37232.	4.0	13
84	Progressive Debonding of Multilayer Interconnect Structures. Materials Research Society Symposia Proceedings, 1997, 473, 21.	0.1	12
85	Effects of an adhesion promoter on the debond resistance of a metal-polymethylmethacrylate interface. Journal of Biomedical Materials Research Part B, 2001, 54, 419-427.	3.0	11
86	Carbon-Bridge Incorporation in Organosilicate Coatings Using Oxidative Atmospheric Plasma Deposition. ACS Applied Materials & Interfaces, 2016, 8, 1309-1318.	4.0	11
87	Synthesis of Polyimides in Molecular-Scale Confinement for Low-Density Hybrid Nanocomposites. Nano Letters, 2017, 17, 7040-7044.	4.5	11
88	Measurement of the biomechanical function and structure of ex vivo drying skin using raman spectral analysis and its modulation with emollient mixtures. Experimental Dermatology, 2018, 27, 901-908.	1.4	11
89	Design of Ultrastiff Organosilicate Hybrid Glasses. Advanced Functional Materials, 2019, 29, 1904890.	7.8	11
90	Robust, High-Performing Maize–Perovskite-Based Solar Cells with Improved Stability. ACS Applied Energy Materials, 2021, 4, 11194-11203.	2.5	11

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91	Del1 Knockout Mice Developed More Severe Osteoarthritis Associated with Increased Susceptibility of Chondrocytes to Apoptosis. PLoS ONE, 2016, 11, e0160684.	1.1	11
92	Molecular ontrolled Fracture and Release of Templated Nanoporous Organosilicate Thin Films. Advanced Materials, 2008, 20, 3159-3164.	11.1	10
93	Nanoscale Interfacial Engineering for Flexible Barrier Films. Nano Letters, 2015, 15, 6751-6755.	4.5	10
94	Optically Transparent Protective Coating for Plastics Using Dual Spray and Atmospheric Plasma Deposition. Advanced Materials Interfaces, 2018, 5, 1701433.	1.9	10
95	Open-air spray plasma deposited UV-absorbing nanocomposite coatings. Nanoscale, 2018, 10, 14525-14533.	2.8	10
96	Lipid Loss Increases Stratum Corneum Stress and Drying Rates. Skin Pharmacology and Physiology, 2020, 33, 180-188.	1.1	10
97	Perspectives of Open-Air Processing to Enable Perovskite Solar Cell Manufacturing. Frontiers in Energy Research, 2021, 9, .	1.2	10
98	Bilayer metal gate electrodes with tunable work function: Adhesion and interface characterization. Journal of Applied Physics, 2010, 108, .	1.1	9
99	Effects of barrier composition and electroplating chemistry on adhesion and voiding in copper/dielectric diffusion barrier films. Journal of Applied Physics, 2011, 110, 044312.	1.1	9
100	Heterogeneous Solution Deposition of High-Performance Adhesive Hybrid Films. ACS Applied Materials & Interfaces, 2013, 5, 9891-9895.	4.0	9
101	Surface Chemical Functionalization to Achieve Extreme Levels of Molecular Confinement in Hybrid Nanocomposites. Advanced Functional Materials, 2019, 29, 1903132.	7.8	9
102	Mechanical and Microstructural Properties of Stratum Corneum. Materials Research Society Symposia Proceedings, 2002, 724, N2.7.1.	0.1	9
103	Electrical technique for monitoring crack growth in thin-film fracture mechanics specimens. Journal of Materials Research, 2004, 19, 3139-3144.	1.2	8
104	Tailoring UV cure depth profiles for optimal mechanical properties of organosilicate thin films. Applied Physics Letters, 2009, 95, 071902.	1.5	8
105	Moisture-assisted cracking and atomistic crack path meandering in oxidized hydrogenated amorphous silicon carbide films. Journal of Applied Physics, 2013, 113, .	1.1	8
106	Electrically Conductive Copper Core–Shell Nanowires through Benzenethiol-Directed Assembly. Nano Letters, 2018, 18, 4900-4907.	4.5	8
107	Comprehensive characterization of the structure and properties of human stratum corneum relating to barrier function and skin hydration: modulation by a moisturizer formulation. Experimental Dermatology, 2021, 30, 1352-1357.	1.4	8
108	Benchmarking Four Point Bend Adhesion Testing: The Effect of Test Parameters On Adhesion Energy. AIP Conference Proceedings, 2005, , .	0.3	7

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109	Molecular Design for Moisture Insensitivity of Compositionally Graded Hybrid Films. ACS Applied Materials & Interfaces, 2015, 7, 6812-6818.	4.0	7
110	Using Unentangled Oligomers To Toughen Materials. ACS Applied Materials & Interfaces, 2018, 10, 27549-27554.	4.0	7
111	Molecular design of confined organic network hybrids with controlled deformation rate sensitivity and moisture resistance. Acta Materialia, 2018, 142, 162-171.	3.8	6
112	Scalable open-air deposition of compact ETL TiO _x on perovskite for fullerene-free solar cells. Journal of Materials Chemistry A, 2020, 8, 22858-22866.	5.2	6
113	Multiaxial Lenticular Stress-Strain Relationship of Native Myocardium is Preserved by Infarct-Induced Natural Heart Regeneration in Neonatal Mice. Scientific Reports, 2020, 10, 7319.	1.6	6
114	Low temperature open-air plasma deposition of amorphous tin oxide for perovskite solar cells. Thin Solid Films, 2021, 730, 138708.	0.8	6
115	Role of friction and loading parameters in four-point bend adhesion measurements. Journal of Materials Research, 2008, 23, 87-96.	1.2	5
116	Selective Deposition of Compositionally Graded Hybrid Adhesive Films. Advanced Materials Interfaces, 2015, 2, 1500262.	1.9	5
117	Organothiolâ€Based Hybrid‣ayer Strategy for Highâ€Performance Copper Adhesion and Stressâ€Migration via Simultaneous Oxide Reduction. Advanced Materials Interfaces, 2016, 3, 1600118.	1.9	5
118	Role of Carbon Bridge Length of Organosilicate Precursors on the Atmospheric Plasma Deposition of Transparent Bilayer Protective Coatings on Plastics. Plasma Processes and Polymers, 2016, 13, 1053-1060.	1.6	5
119	A graphene platform on silicon for the Internet of Everything. , 2018, , .		5
120	Low-temperature sprayed SnO _{<i>x</i>} nanocomposite films with enhanced hole blocking for efficient large area perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 21332-21339.	5.2	5
121	Adhesion and Progressive Debonding of Polymer/Metal Interfaces: Effects of Temperature and Environment. Materials Research Society Symposia Proceedings, 1999, 563, 263.	0.1	4
122	Effect of Moisture and Graded-Layer Mechanical Properties on Deformation and Interfacial Adhesion. Materials Research Society Symposia Proceedings, 2003, 778, 751.	0.1	4
123	Hybrid coupling layers for bulk metallic glass adhesion. Journal of Materials Research, 2013, 28, 3164-3169.	1.2	4
124	Effect of Mechanical Constraint on Tearing Energy of Polymer Membranes. Macromolecular Materials and Engineering, 2016, 301, 1096-1103.	1.7	4
125	The Effect of Fatigue on the Adhesion and Subcritical Debonding of Benzocyclobutene/Silicon Dioxide Interfaces. Materials Research Society Symposia Proceedings, 2000, 612, 131.	0.1	3
126	Fatigue Processes in Silicon MEMS Devices. Materials Research Society Symposia Proceedings, 2001, 682, 1.	0.1	3

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127	Multi-Scale Simulations of Interfacial Fracture of Nanoscale Thin-Film Structures: Effect of Length Scales and Residual Stresses. Materials Research Society Symposia Proceedings, 2003, 778, 931.	0.1	3
128	Debonding Under Fatigue Loading at Polymer/Inorganic Interfaces. Materials Research Society Symposia Proceedings, 2004, 821, 99.	0.1	3
129	Assessing the Effect of Die Sealing in Cu/Low-k Structures. , 2007, , .		3
130	Effects of e-beam curing on glass structureand mechanical properties of nanoporous organosilicate thin films. International Journal of Materials Research, 2010, 101, 228-235.	0.1	3
131	Moisture-assisted failure mechanisms in underfill epoxy/silicon systems for microelectronic packaging. , 2014, , .		3
132	Optical properties of metal oxynitride thin films grown with atmospheric plasma deposition. Journal Physics D: Applied Physics, 2016, 49, 395302.	1.3	3
133	Quantitative adhesion characterization of antireflective coatings in multijunction photovoltaics. Solar Energy Materials and Solar Cells, 2016, 153, 78-83.	3.0	3
134	The Effects of Terminal Groups on Elastic Asymmetries in Hybrid Molecular Materials. Journal of Physical Chemistry B, 2017, 121, 9753-9759.	1.2	3
135	Mechanically reliable hybrid organosilicate glasses for advanced interconnects. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 060601.	0.6	3
136	Ectoine disperses keratin and alters hydration kinetics in stratum corneum. Biochemistry and Biophysics Reports, 2021, 28, 101134.	0.7	3
137	Polyimide Hybrid Nanocomposites with Controlled Polymer Filling and Polymer–Matrix Interaction. ACS Applied Materials & Interfaces, 2022, 14, 28239-28246.	4.0	3
138	Environmental and Stress State Effects on Fracture and Fatigue Crack-Growth in Zr-Ti-Ni-Cu-Be Bulk Amorphous Metals. Materials Research Society Symposia Proceedings, 1998, 554, 355.	0.1	2
139	Fracture Properties of Porous MSSQ Films: Impact of Porogen Loading and Burnout. Materials Research Society Symposia Proceedings, 2006, 914, 1.	0.1	2
140	Quantitative Roadmap for Optimizing CMP of Ultra-Low-k Dielectrics. , 2008, , .		2
141	Solution chemistry effects on cracking and damage evolution during chemical-mechanical planarization. Journal of Materials Research, 2010, 25, 1904-1909.	1.2	2
142	Controlling kinetics of heterogeneous sol–gel solution for high-performance adhesive hybrid films. Journal of Sol-Gel Science and Technology, 2016, 77, 620-626.	1.1	2
143	Study of Crack Propagation at an Oxide/Polymer Interface Under Varying Loading Conditions. Materials Research Society Symposia Proceedings, 1999, 594, 407.	0.1	1
144	Atomic Force Microscopy Studies of Fracture Surfaces From Oxide / Polymer Interfaces. Materials Research Society Symposia Proceedings, 2000, 654, 271.	0.1	1

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145	Adhesion of Pressure Sensitive Adhesives with Applications in Transdermal Drug Delivery. Materials Research Society Symposia Proceedings, 2000, 662, 1.	0.1	1
146	Effect of Composition and Bead Settling on Debonding of Underfill Layers. Materials Research Society Symposia Proceedings, 2001, 682, 1.	0.1	1
147	Adhesion Mechanisms of Silane Adhesion Promoters in Microelectronic Packaging. Materials Research Society Symposia Proceedings, 2001, 682, 1.	0.1	1
148	Mechanical properties of hydrogenated amorphous silicon carbide thin films. , 2010, , .		1
149	Degradation of silicone encapsulants in CPV optics. , 2016, , .		1
150	Thermomechanical asymmetries in ULK dielectric glasses. , 2016, , .		1
151	Photovoltaic Devices: High Performance Rollâ€ŧoâ€Roll Produced Fullereneâ€Free Organic Photovoltaic Devices via Temperatureâ€Controlled Slot Die Coating (Adv. Funct. Mater. 6/2019). Advanced Functional Materials, 2019, 29, 1970037.	7.8	1
152	Self-aligned concentrating immersion-lens arrays for patterning and efficiency recovery in scaffold-reinforced perovskite solar cells. Applied Materials Today, 2020, 20, 100704.	2.3	1
153	Proceed with Caution: Mouse Deep Digit Flexor Tendon Injury Model. Plastic and Reconstructive Surgery - Global Open, 2021, 9, e3359.	0.3	1
154	Biomechanical Analysis of the Ross Procedure in an Ex Vivo Left Heart Simulator. World Journal for Pediatric & Congenital Heart Surgery, 2022, 13, 166-174.	0.3	1
155	Insights into the Mechanical Properties of Ultrathin Perfluoropolyether–Silane Coatings. Langmuir, 2022, 38, 6435-6442.	1.6	1
156	Gas cluster etching for the universal preparation of polymer composites for nano chemical and mechanical analysis with AFM. Applied Surface Science, 2022, 599, 153954.	3.1	1
157	Effects of Hydrogen on the Internal Time Scales in Zr-Ti-Ni-Cu-Be Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2000, 644, 1031.	0.1	0
158	Fracture and Fatigue Crack Growth of Bulk Metallic Glass Alloys and their Composites. Materials Research Society Symposia Proceedings, 2000, 644, 951.	0.1	0
159	Studies of Silane Adhesion Promoters on Silica Filler Particles for use in Microelectronic Packaging. Materials Research Society Symposia Proceedings, 2001, 710, 1.	0.1	0
160	Elevated Temperature Fatigue Crack Propagation of a Zr-Ti-Cu-Ni-Be Bulk Metallic Glass. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
161	Transient Fatigue Crack-Growth Behavior and Damage Zones in Zr-Based Bulk Metallic Glass. Materials Research Society Symposia Proceedings, 2003, 806, 286.	0.1	0
162	Unusual fracture behavior of nanoporous polymeric thin-films. Materials Research Society Symposia Proceedings, 2005, 880, 1.	0.1	0

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163	The Role of Nanoscale Confinement of Adhesion Promoting Molecules on the Adhesion and Resistance to Moisture Attack at the Polymer/Silicon Nitride Interface. Materials Research Society Symposia Proceedings, 2006, 924, 1.	0.1	0
164	A Novel Bonding Technique Using Metal-Induced Crystallization of Amorphous Silicon. Materials Research Society Symposia Proceedings, 2007, 989, 1.	0.1	0
165	Thermomechanical reliability for emerging device technologies: Implications for ULK integration, 3-D structures and packaging. , 2009, , .		0
166	Can understanding the effect of solar UV radiation on skin's biomechanical function help prevent skin damage?. Expert Review of Dermatology, 2013, 8, 5-6.	0.3	0
167	Highly compressed nano-layers in epitaxial silicon carbide membranes for MEMs sensors. , 2014, , .		0
168	Low-cost, single-step hybrid bond/barrier films for Cu bondlines in advanced packaging. , 2015, , .		0
169	Cross-linkable styrene-functionalized fullerenes as electron-selective contacts for robust and efficient perovskite solar cells. , 2016, , .		0
170	Adhesion of antireflective coatings in multijunction photovoltaics. , 2016, , .		0
171	Transforming the P4 process to enhance mechanical and fracture properties of ULKs. , 2016, , .		0
172	Spray deposition of compositionally graded hybrid layers for high-performance adhesion. , 2016, , .		0
173	Nonaffine Deformations in ULK Dielectric Glasses. , 2018, , .		0
174	Polymer-Assisted Perovskite Assembly: from Lab-Scale to Roll-to-Roll printed Solar Cells. , 0, , .		0
175	Open-Air Plasma-Deposited Multilayer Thin Film Moisture Barriers for Perovskite Solar Cells. , 2020, , .		0
176	Design of Mechanically Reliable ULK Glasses. , 2020, , .		0