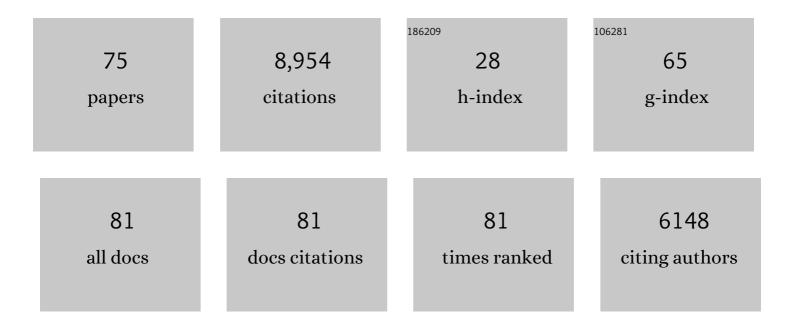
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Autonomic healing of polymer composites. Nature, 2001, 409, 794-797.	13.7	3,747
2	<i>In situ</i> poly(urea-formaldehyde) microencapsulation of dicyclopentadiene. Journal of Microencapsulation, 2003, 20, 719-730.	1.2	644
3	Microcapsule induced toughening in a self-healing polymer composite. Journal of Materials Science, 2004, 39, 1703-1710.	1.7	603
4	Fracture testing of a self-healing polymer composite. Experimental Mechanics, 2002, 42, 372-379.	1.1	567
5	In situ poly(urea-formaldehyde) microencapsulation of dicyclopentadiene. Journal of Microencapsulation, 2003, 20, 719-730.	1.2	398
6	Wax-Protected Catalyst Microspheres for Efficient Self-Healing Materials. Advanced Materials, 2005, 17, 205-208.	11.1	364
7	Retardation and repair of fatigue cracks in a microcapsule toughened epoxy composite—Part II: In situ self-healing. Composites Science and Technology, 2005, 65, 2474-2480.	3.8	351
8	The mechanical properties of poly(ether-ether-ketone) (PEEK) with emphasis on the large compressive strain response. Polymer, 2007, 48, 598-615.	1.8	290
9	Retardation and repair of fatigue cracks in a microcapsule toughened epoxy composite – Part I: Manual infiltration. Composites Science and Technology, 2005, 65, 2466-2473.	3.8	217
10	The role of crystalline phase on fracture and microstructure evolution of polytetrafluoroethylene (PTFE). Polymer, 2005, 46, 3056-3068.	1.8	185
11	The properties of poly(tetrafluoroethylene) (PTFE) in tension. Polymer, 2005, 46, 8128-8140.	1.8	184
12	Fatigue crack propagation in microcapsule-toughened epoxy. Journal of Materials Science, 2006, 41, 6266-6273.	1.7	142
13	The effect of crystallinity on the fracture of polytetrafluoroethylene (PTFE). Materials Science and Engineering C, 2006, 26, 1338-1343.	3.8	89
14	Influence of Molecular Conformation on the Constitutive Response of Polyethylene: A Comparison of HDPE, UHMWPE, and PEX. Experimental Mechanics, 2007, 47, 381-393.	1.1	84
15	Compressive properties of extruded polytetrafluoroethylene. Polymer, 2007, 48, 4184-4195.	1.8	81
16	Mechanical Properties of Low Density Polyethylene. Journal of Dynamic Behavior of Materials, 2016, 2, 411-420.	1.1	77
17	Use of the tapered double-cantilever beam geometry for fracture toughness measurements and its application to the quantification of self-healing. Journal of Strain Analysis for Engineering Design, 2011, 46, 167-186.	1.0	73
18	The influence of temperature and strain rate on the constitutive and damage responses of polychlorotrifluoroethylene (PCTFE, Kel-F 81). Polymer, 2006, 47, 7506-7518.	1.8	66

#	Article	lF	CITATIONS
19	Time–temperature equivalence and adiabatic heating at large strains in high density polyethylene and ultrahigh molecular weight polyethylene. Polymer, 2013, 54, 381-390.	1.8	61
20	In-situ Measurement of Crystalline Lattice Strains in Polytetrafluoroethylene. Experimental Mechanics, 2008, 48, 119-131.	1.1	55
21	Fracture Testing of a Self-Healing Polymer Composite. Experimental Mechanics, 2002, 42, 372-379.	1.1	53
22	Pressure-induced phase change in poly(tetrafluoroethylene) at modest impact velocities. Journal of Applied Physics, 2005, 98, 063521.	1.1	52
23	Effect of surface treatment on the hydrolytic stability of E-glass fiber bundle tensile strength. Composites Science and Technology, 2005, 65, 129-136.	3.8	43
24	A new strain path to inducing phase transitions in semi-crystalline polymers. Polymer, 2007, 48, 2531-2536.	1.8	43
25	Soft recovery of polytetrafluoroethylene shocked through the crystalline phase II-III transition. Journal of Applied Physics, 2007, 101, 024916.	1.1	40
26	The effect of shock-wave profile on dynamic brittle failure. Journal of Applied Physics, 2013, 113, .	1.1	30
27	The influence of temperature and strain rate on the tensile and compressive constitutive response of four fluoropolymers. European Physical Journal Special Topics, 2006, 134, 935-940.	0.2	28
28	Effect of halogenation on the shock properties of semicrystalline thermoplastics. Journal of Applied Physics, 2007, 102, 063510.	1.1	28
29	Dynamic-Tensile-Extrusion for investigating large strain and high strain rate behavior of polymers. Polymer Testing, 2012, 31, 1031-1037.	2.3	28
30	Shock, release and Taylor impact of the semicrystalline thermoplastic polytetrafluoroethylene. Journal of Applied Physics, 2008, 103, .	1.1	27
31	Mixed-mode-I/II fracture of polytetrafluoroethylene. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 468-470, 253-258.	2.6	26
32	Constitutive modeling of shock response of polytetrafluoroethylene. Journal of Applied Physics, 2011, 110, 033530.	1.1	20
33	Phase transition modeling of polytetrafluoroethylene during Taylor impact. Journal of Applied Physics, 2014, 116, .	1.1	19
34	New Developments in Proton Radiography at the Los Alamos Neutron Science Center (LANSCE). Experimental Mechanics, 2016, 56, 111-120.	1.1	18
35	The Effects of Changing Chemistry on the Shock Response of Basic Polymers. Journal of Dynamic Behavior of Materials, 2016, 2, 326-336.	1.1	17
36	High-density polyethylene damage at extreme tensile conditions. Journal of Physics: Conference Series, 2014, 500, 112011.	0.3	13

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37	Some Observations on Measuring Sound Speeds in Polymers Using Time-of-Flight. Experimental Techniques, 2016, 40, 1085-1097.	0.9	13
38	Thermomechanical model for monotonic and cyclic loading of PEEK. Mechanics of Materials, 2019, 129, 113-138.	1.7	13
39	In situ measurement of crystalline lattice strains in phase IV polytetrafluoroethylene. Journal of Neutron Research, 2007, 15, 139-146.	0.4	11
40	Fracture and Fatigue Behavior of a Self-Healing Polymer Composite. Materials Research Society Symposia Proceedings, 2002, 735, 11221.	0.1	10
41	Interdisciplinary Research: A Student's Perspective. Journal of Chemical Education, 2002, 79, 13.	1.1	9
42	DYNAMIC-TENSILE-EXTRUSION RESPONSE OF FLUOROPOLYMERS. , 2009, , .		8
43	Influence of necking propensity on the dynamic-tensile-extrusion response of fluoropolymers. , 2009, ,		5
44	The effect of microstructure on Rayleigh-Taylor instability growth in solids. Journal of Physics: Conference Series, 2014, 500, 112048.	0.3	4
45	Journal of Dynamic Behavior of Materials: A New Forum for Knowledge Exchange on Dynamic Material Response, High Strain-Rate Effects, Shock, and Materials Under Extreme Loading. Journal of Dynamic Behavior of Materials, 2015, 1, 1-3.	1.1	4
46	Extreme Tensile Damage and Failure in Glassy Polymers via Dynamic-Tensile-Extrusion. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 107-112.	0.3	4
47	Shock and Recovery of Polytetrafluoroethylene Above and Below the Phase II to Phase III Transition. AIP Conference Proceedings, 2006, , .	0.3	3
48	Mechanics of Organic, Implant, and Bioinspired Materials. Experimental Mechanics, 2007, 47, 301-302.	1.1	3
49	INFLUENCE OF POLYETHYLENE MOLECULAR CONFORMATION ON TAYLOR IMPACT MEASUREMENTS: A COMPARISON OF HDPE, UHMWPE, AND PEX. AIP Conference Proceedings, 2008, , .	0.3	3
50	Effect of shock wave duration on dynamic failure of tungsten heavy alloy. Journal of Physics: Conference Series, 2014, 500, 112012.	0.3	3
51	On compression and damage evolution in two thermoplastics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160495.	1.0	3
52	Celebrating 75 Years of the Society for Experimental Mechanics and the Study of Dynamic Behavior of Materials. Journal of Dynamic Behavior of Materials, 2018, 4, 1-5.	1.1	3
53	AN INVESTIGATION OF SURFACE VELOCIMETRY OF SHOCKED POLYETHYLENE USING HETV. AIP Conference Proceedings, 2008, , .	0.3	2
54	Characterization of shocked beryllium. Journal of Physics: Conference Series, 2014, 500, 112013.	0.3	2

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55	The Taylor cylinder response of PC and PMMA. AIP Conference Proceedings, 2018, , .	0.3	2
56	Incipient and Progressive Damage in Polyethylene Under Extreme Tensile Conditions. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 267-273.	0.3	2
57	In Situ and Postmortem Measures of Damage in Polymers at High Strain-Rates. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 53-59.	0.3	2
58	Some Observations on Measuring Sound Speeds in Polymers Using Time-of-Flight. Experimental Techniques, 2015, 40, n/a-n/a.	0.9	2
59	The Trinity High-Explosive Implosion System: The Foundation for Precision Explosive Applications. Nuclear Technology, 2021, 207, S204-S221.	0.7	2
60	The Taylor Impact and Large Strain Response of Poly(Ether-Etherketone) (PEEK). AIP Conference Proceedings, 2006, , .	0.3	1
61	CONSTITUTIVE MODELING OF SHOCK RESPONSE OF PTFE. , 2009, , .		1
62	Three-dimensional characterisation and simulation of deformation and damage during Taylor impact in PTFE. Journal of Physics: Conference Series, 2014, 500, 182035.	0.3	1
63	Constitutive modeling of the dynamic-tensile-extrusion test of PTFE. AIP Conference Proceedings, 2017,	0.3	1
64	Contributions to Dynamic Behaviour of Materials Professor John Edwin Field, FRS 1936–2020. Journal of Dynamic Behavior of Materials, 2021, 7, 353-382.	1.1	1
65	The Shock Induced Mechanical Response of the Fluorinated Tri-polymer, Viton B. Journal of Dynamic Behavior of Materials, 2021, 7, 436-446.	1.1	1
66	Mechanical Characterization and Preliminary Modeling of PEEK. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 209-218.	0.3	1
67	EFFECT OF PULSE DURATION ON POLYTETRAFLUOROETHYLENE SHOCKED ABOVE THE CRYSTALLINE PHASE II–III TRANSITION. , 2008, , .		0
68	SHEAR STRENGTH AND ITS VARIATION ACCORDING TO STRUCTURE IN SHOCK LOADED POLYETHLYLENE. , 2008, , .		0
69	On compression and damage evolution in PTFE and PEEK. AIP Conference Proceedings, 2017, , .	0.3	0
70	The response of a commercial fluorinated tri-polymer to 1-D shock loading. AIP Conference Proceedings, 2018, , .	0.3	0
71	Rate dependent response and failure of a ductile epoxy and carbon fiber reinforced epoxy composite. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 401-402.	0.3	0
72	Large-Strain Time-Temperature Equivalence and Adiabatic Heating of Polyethylene. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 67-74.	0.3	0

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7	73	Inverse Measurement of Stiffness by the Normalization Technique for J-Integral Fracture Toughness. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 17-21.	0.3	0
7	74	Quantitative Visualization of High-Rate Material Response with Dynamic Proton Radiography. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 405-411.	0.3	0
7	75	Characterization and Modeling of PEEK in Histories with Reverse Loading. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 65-69.	0.3	0