

John Sweeney

List of Publications by Year in descending order

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36
papers

450
citations

687363

13
h-index

752698

20
g-index

51
all docs

51
docs citations

51
times ranked

375
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications and Life Cycle Assessment of Shape Memory Polyethylene Terephthalate in Concrete for Crack Closure. <i>Polymers</i> , 2022, 14, 933.	4.5	6
2	Enhanced concrete crack closure with hybrid shape memory polymer tendons. <i>Engineering Structures</i> , 2021, 226, 111330.	5.3	26
3	Constitutive Modelling of Polylactic Acid at Large Deformation Using Multiaxial Strains. <i>Polymers</i> , 2021, 13, 2967.	4.5	2
4	Modelling the Mechanical and Strain Recovery Behaviour of Partially Crystalline PLA. <i>Polymers</i> , 2019, 11, 1342.	4.5	10
5	Nanoindentation analysis of oriented polypropylene: Influence of elastic properties in tension and compression. <i>Polymer</i> , 2018, 151, 197-207.	3.8	8
6	Application of activated barrier hopping theory to viscoplastic modeling of glassy polymers. <i>Mechanics of Time-Dependent Materials</i> , 2018, 22, 145-165.	4.4	1
7	A shape memory polymer concrete crack closure system activated by electrical current. <i>Smart Materials and Structures</i> , 2018, 27, 075016.	3.5	40
8	Development of high shrinkage polyethylene terephthalate (PET) shape memory polymer tendons for concrete crack closure. <i>Smart Materials and Structures</i> , 2017, 26, 045006.	3.5	14
9	The Use of a New Viscous Process in Constitutive Models of Polymers. <i>Key Engineering Materials</i> , 2015, 651-653, 812-817.	0.4	2
10	Modelling of loading, stress relaxation and stress recovery in a shape memory polymer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 37, 12-23.	3.1	17
11	The large strain response of polypropylene in multiaxial stretching and stress relaxation. <i>International Journal of Material Forming</i> , 2013, 6, 519-525.	2.0	0
12	Simulation of the plug-assisted thermoforming of polypropylene using a large strain thermally coupled constitutive model. <i>Journal of Materials Processing Technology</i> , 2013, 213, 1588-1600.	6.3	37
13	A material model for multiaxial stretching and stress relaxation of polypropylene under process conditions. <i>Mechanics of Materials</i> , 2012, 54, 55-69.	3.2	8
14	A multiprocess eyring model for large strain plastic deformation. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2246-2260.	2.6	2
15	Modeling the tensile behavior of ultra-high-molecular-weight polyethylene with a novel flow rule. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2936-2944.	2.6	4
16	The large strain response of polypropylene in multiaxial stretching and stress relaxation. , 2011, , .		1
17	Development of a Constitutive Model of Polypropylene for Thermoforming. , 2011, , .		2
18	Surface profiling of micro-scale structures using partial differential equations. <i>International Journal of Material Forming</i> , 2010, 3, 415-418.	2.0	2

#	ARTICLE	IF	CITATIONS
19	Analysis of the essential work of fracture method as applied to UHMWPE. Journal of Materials Science, 2010, 45, 448-459.	3.7	12
20	Viscoplastic constitutive modeling of polymers—Flow rules and the plane strain response. Journal of Applied Polymer Science, 2009, 111, 1190-1198.	2.6	9
21	A constitutive model for large multiaxial deformations of solid polypropylene at high temperature. Polymer Engineering and Science, 2009, 49, 1902-1908.	3.1	24
22	Modelling the large strain solid phase deformation behaviour of polymer nanoclay composites. Mechanics of Time-Dependent Materials, 2008, 12, 313-327.	4.4	11
23	Unified model of necking and shear banding in amorphous and semicrystalline polymers. Journal of Applied Polymer Science, 2007, 106, 1095-1105.	2.6	16
24	Modeling the large-strain constitutive behavior of polycarbonate under isothermal and anisothermal conditions. Journal of Applied Polymer Science, 2005, 96, 2105-2116.	2.6	4
25	Suppression of necking in polyethylene. Journal of Applied Polymer Science, 2002, 86, 3135-3147.	2.6	6
26	Application of a large deformation model to unstable tensile stretching of polyethylene. International Journal of Plasticity, 2002, 18, 399-414.	8.8	23
27	The modelling of large deformations of pre-oriented polyethylene. Polymer, 2002, 43, 899-907.	3.8	8
28	Finite element simulation of geogrid manufacture using large deformation elastic formulation. Plastics, Rubber and Composites, 2000, 29, 51-58.	2.0	7
29	High-temperature large strain viscoelastic behavior of polypropylene modeled using an inhomogeneously strained network. Journal of Applied Polymer Science, 1999, 72, 563-575.	2.6	28
30	Application of a necking criterion to PET fibers in tension. Journal of Applied Polymer Science, 1999, 74, 3331-3341.	2.6	15
31	Application of an elastic model to the large deformation, high temperature stretching of polypropylene. Polymer, 1997, 38, 5991-5999.	3.8	42
32	The strain energy released when a crack grows normally from its tip. International Journal of Fracture, 1991, 47, 69-79.	2.2	1
33	A unified model of stress relaxation and creep applied to oriented polyethylene. Journal of Materials Science, 1990, 25, 697-705.	3.7	27
34	Revised values of finite width correction factors for sen testing of orthotropic materials. Journal of Strain Analysis for Engineering Design, 1988, 23, 227-228.	1.8	0
35	Finite-Width correction factors for sen testing of orthotropic materials in opening mode. Journal of Strain Analysis for Engineering Design, 1986, 21, 99-107.	1.8	13
36	Analysis of a proposed method for toughness measurements using torsion testing. Journal of Strain Analysis for Engineering Design, 1985, 20, 1-5.	1.8	4