

John Sweeney

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Application of an elastic model to the large deformation, high temperature stretching of polypropylene. <i>Polymer</i> , 1997, 38, 5991-5999. | 3.8 | 42 |
| 2 | A shape memory polymer concrete crack closure system activated by electrical current. <i>Smart Materials and Structures</i> , 2018, 27, 075016. | 3.5 | 40 |
| 3 | 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 |
| 4 | High-temperature large strain viscoelastic behavior of polypropylene modeled using an inhomogeneously strained network. <i>Journal of Applied Polymer Science</i> , 1999, 72, 563-575. | 2.6 | 28 |
| 5 | A unified model of stress relaxation and creep applied to oriented polyethylene. <i>Journal of Materials Science</i> , 1990, 25, 697-705. | 3.7 | 27 |
| 6 | Enhanced concrete crack closure with hybrid shape memory polymer tendons. <i>Engineering Structures</i> , 2021, 226, 111330. | 5.3 | 26 |
| 7 | A constitutive model for large multiaxial deformations of solid polypropylene at high temperature. <i>Polymer Engineering and Science</i> , 2009, 49, 1902-1908. | 3.1 | 24 |
| 8 | Application of a large deformation model to unstable tensile stretching of polyethylene. <i>International Journal of Plasticity</i> , 2002, 18, 399-414. | 8.8 | 23 |
| 9 | 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 |
| 10 | Unified model of necking and shear banding in amorphous and semicrystalline polymers. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1095-1105. | 2.6 | 16 |
| 11 | Application of a necking criterion to PET fibers in tension. <i>Journal of Applied Polymer Science</i> , 1999, 74, 3331-3341. | 2.6 | 15 |
| 12 | 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 |
| 13 | Finite-Width correction factors for sen testing of orthotropic materials in opening mode. <i>Journal of Strain Analysis for Engineering Design</i> , 1986, 21, 99-107. | 1.8 | 13 |
| 14 | Analysis of the essential work of fracture method as applied to UHMWPE. <i>Journal of Materials Science</i> , 2010, 45, 448-459. | 3.7 | 12 |
| 15 | Modelling the large strain solid phase deformation behaviour of polymer nanoclay composites. <i>Mechanics of Time-Dependent Materials</i> , 2008, 12, 313-327. | 4.4 | 11 |
| 16 | Modelling the Mechanical and Strain Recovery Behaviour of Partially Crystalline PLA. <i>Polymers</i> , 2019, 11, 1342. | 4.5 | 10 |
| 17 | Viscoplastic constitutive modeling of polymersâ€™ Flow rules and the plane strain response. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1190-1198. | 2.6 | 9 |
| 18 | The modelling of large deformations of pre-oriented polyethylene. <i>Polymer</i> , 2002, 43, 899-907. | 3.8 | 8 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Nanoindentation analysis of oriented polypropylene: Influence of elastic properties in tension and compression. <i>Polymer</i> , 2018, 151, 197-207. | 3.8 | 8 |
| 21 | Finite element simulation of geogrid manufacture using large deformation elastic formulation. <i>Plastics, Rubber and Composites</i> , 2000, 29, 51-58. | 2.0 | 7 |
| 22 | Suppression of necking in polyethylene. <i>Journal of Applied Polymer Science</i> , 2002, 86, 3135-3147. | 2.6 | 6 |
| 23 | Applications and Life Cycle Assessment of Shape Memory Polyethylene Terephthalate in Concrete for Crack Closure. <i>Polymers</i> , 2022, 14, 933. | 4.5 | 6 |
| 24 | Analysis of a proposed method for toughness measurements using torsion testing. <i>Journal of Strain Analysis for Engineering Design</i> , 1985, 20, 1-5. | 1.8 | 4 |
| 25 | Modeling the large-strain constitutive behavior of polycarbonate under isothermal and anisothermal conditions. <i>Journal of Applied Polymer Science</i> , 2005, 96, 2105-2116. | 2.6 | 4 |
| 26 | 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 |
| 27 | Surface profiling of micro-scale structures using partial differential equations. <i>International Journal of Material Forming</i> , 2010, 3, 415-418. | 2.0 | 2 |
| 28 | A multiprocess eyring model for large strain plastic deformation. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2246-2260. | 2.6 | 2 |
| 29 | Development of a Constitutive Model of Polypropylene for Thermoforming. , 2011, , . | | 2 |
| 30 | 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 |
| 31 | Constitutive Modelling of Polylactic Acid at Large Deformation Using Multiaxial Strains. <i>Polymers</i> , 2021, 13, 2967. | 4.5 | 2 |
| 32 | The strain energy released when a crack grows normally from its tip. <i>International Journal of Fracture</i> , 1991, 47, 69-79. | 2.2 | 1 |
| 33 | The large strain response of polypropylene in multiaxial stretching and stress relaxation. , 2011, , . | | 1 |
| 34 | 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 |
| 35 | Revised values of finite width correction factors for sen testing of orthotropic materials. <i>Journal of Strain Analysis for Engineering Design</i> , 1988, 23, 227-228. | 1.8 | 0 |
| 36 | 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 |