

John J Lesko

List of Publications by Year in descending order

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73
papers

3,374
citations

304743

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73
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docs citations

73
times ranked

2647
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Nature of Freezing/Melting Water in Ionic Polysulfones. <i>Macromolecules</i> , 2021, 54, 6477-6488.	4.8	3
2	Hydration, Ion Distribution, and Ionic Network Formation in Sulfonated Poly(arylene ether sulfones). <i>Macromolecules</i> , 2021, 54, 302-315.	4.8	7
3	Response of composite engineering structures to combined fire and mechanical loading and fatigue durability. , 2020, , 165-202.		0
4	Synthesis and characterization of post-sulfonated poly(arylene ether sulfone) membranes for potential applications in water desalination. <i>Polymer</i> , 2019, 177, 250-261.	3.8	17
5	Synthesis and characterization of a phosphine oxide based poly(arylene ether ketone) and blends with poly(2,6-dimethyl-1,4-phenylene oxide) for gas separations. <i>Polymer</i> , 2018, 138, 156-168.	3.8	9
6	Synthesis and characterization of polybenzimidazole membranes for gas separation with improved gas permeability: A grafting and blending approach. <i>Journal of Membrane Science</i> , 2018, 564, 587-597.	8.2	19
7	Poly(2,6-dimethyl-1,4-phenylene oxide) blends with a poly(arylene ether ketone) for gas separation membranes. <i>Polymer</i> , 2017, 114, 135-143.	3.8	18
8	Synthesis and Membrane Properties of Sulfonated Poly(arylene ether sulfone) Statistical Copolymers for Electrolysis of Water: Influence of Meta- and Para-Substituted Comonomers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20067-20075.	8.0	28
9	Structure-property relationships of crosslinked disulfonated poly(arylene ether sulfone) membranes for desalination of water. <i>Polymer</i> , 2017, 132, 286-293.	3.8	11
10	Mechanistic Approach to Structural Fire Modeling of Composites. <i>Fire Technology</i> , 2011, 47, 941-983.	3.0	12
11	Investigation of 3D Moisture Diffusion Coefficients and Damage in a Pultruded E-glass/Polyester Structural Composite. <i>Journal of Composite Materials</i> , 2009, 43, 75-96.	2.4	23
12	Testing of Hygrothermally Aged E-Glass/Epoxy Cylindrical Laminates Using a Novel Fixture for Simulating Internal Pressure. <i>Journal of Composites for Construction</i> , 2009, 13, 325-331.	3.2	9
13	Conformable Tire Patch Loading for FRP Composite Bridge Deck. <i>Journal of Composites for Construction</i> , 2009, 13, 575-581.	3.2	13
14	Performance Evaluation of FRP Composite Deck Considering for Local Deformation Effects. <i>Journal of Composites for Construction</i> , 2009, 13, 332-338.	3.2	9
15	Future home uninterruptible renewable energy system with vehicle-to-grid technology. , 2009, , .		91
16	Service life modelling of fibre composites: A unified approach. <i>Composites Science and Technology</i> , 2008, 68, 3330-3336.	7.8	21
17	Experimental investigations on temperature-dependent thermo-physical and mechanical properties of pultruded GFRP composites. <i>Thermochimica Acta</i> , 2008, 469, 28-35.	2.7	65
18	Residual strength prediction of composite materials: Random spectrum loading. <i>Engineering Fracture Mechanics</i> , 2008, 75, 2707-2724.	4.3	43

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19	Modeling the variable amplitude fatigue of composite materials: A review and evaluation of the state of the art for spectrum loading. <i>International Journal of Fatigue</i> , 2008, 30, 2064-2086.	5.7	158
20	Design Recommendations for a FRP Bridge Deck Supported on Steel Superstructure. <i>Journal of Composites for Construction</i> , 2008, 12, 660-668.	3.2	11
21	Development and Evaluation of an Adhesively Bonded Panel-to-Panel Joint for a FRP Bridge Deck System. <i>Journal of Composites for Construction</i> , 2008, 12, 224-233.	3.2	22
22	The use of a modified microindentation technique to evaluate enviro-mechanical changes in composite interphase properties. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 35-50.	2.6	6
23	Measurement of the Timoshenko Shear Stiffness. II: Effect of Transverse Compressibility. <i>Journal of Composites for Construction</i> , 2007, 11, 343-349.	3.2	6
24	Failure analysis of a hybrid composite structural beam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 691-698.	7.6	10
25	Compression creep rupture behavior of a glass/vinyl ester composite subject to isothermal and one-sided heat flux conditions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1462-1472.	7.6	34
26	Measurement of the Timoshenko Shear Stiffness. I: Effect of Warping. <i>Journal of Composites for Construction</i> , 2007, 11, 336-342.	3.2	11
27	Compression creep rupture behavior of a glass/vinyl ester composite laminate subject to fire loading conditions. <i>Composites Science and Technology</i> , 2007, 67, 3187-3195.	7.8	17
28	Composite life under sustained compression and one sided simulated fire exposure: Characterization and prediction. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1092-1100.	7.6	62
29	Relaxation of Proton Conductivity and Stress in Proton Exchange Membranes Under Strain. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006, 128, 503-508.	1.4	37
30	Tensile behavior of Nafion and sulfonated poly(arylene ether sulfone) copolymer membranes and its morphological correlations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1453-1465.	2.1	65
31	Modeling the remaining strength of structural composite materials subjected to fatigue. <i>International Journal of Fatigue</i> , 2006, 28, 1100-1108.	5.7	23
32	Synthesis and characterization of controlled molecular weight disulfonated poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 4210-4217.	3.8	96
33	The Thermo-Viscoelastic, Viscoplastic Characterization of Vetrotex 324â••Derakane 510A-40 Through Tg. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006, 128, 586-594.	1.4	6
34	Post-Curing Effects on Marine VARTM FRP Composite Material Properties for Test and Implementation. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2006, 128, 34-40.	1.4	17
35	Laboratory and Field Performance of Cellular Fiber-Reinforced Polymer Composite Bridge Deck Systems. <i>Journal of Composites for Construction</i> , 2005, 9, 458-467.	3.2	36
36	Determination of Bridge Design Parameters through Field Evaluation of the Route 601 Bridge Utilizing Fiber-Reinforced Polymer Girders. <i>Journal of Performance of Constructed Facilities</i> , 2005, 19, 17-27.	2.0	9

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37	Pultruded Carbon Fiber/Vinyl Ester Composites Processed with Different Fiber Sizing Agents. Part II: Enviro-Mechanical Durability. Journal of Materials in Civil Engineering, 2005, 17, 334-342.	2.9	10
38	Pultruded Carbon Fiber/Vinyl Ester Composites Processed with Different Fiber Sizing Agents. Part III: Theoretical Aspects. Journal of Materials in Civil Engineering, 2005, 17, 343-352.	2.9	7
39	Simulation of Response of Composite Structures Under Fire Exposure. Science and Engineering of Composite Materials, 2005, 12, 93-102.	1.4	10
40	Pultruded Carbon Fiber/Vinyl Ester Composites Processed with Different Fiber Sizing Agents. Part I: Processing and Static Mechanical Performance. Journal of Materials in Civil Engineering, 2005, 17, 320-333.	2.9	20
41	Evaluation of In-Service Performance of Tomâ€™s Creek Bridge Fiber-Reinforced Polymer Superstructure. Journal of Performance of Constructed Facilities, 2004, 18, 147-158.	2.0	11
42	Seals and Sealants in PEM Fuel Cell Environments: Material, Design, and Durability Challenges. , 2004, , 553.		9
43	Higher-order free vibrations of sandwich beams with a locally damaged core. International Journal of Solids and Structures, 2004, 41, 6529-6547.	2.7	14
44	REHABILITATION DESIGN AND EVALUATION OF THE HAWTHORNE STREET BRIDGE FRP DECK INSTALLATION. , 2004, , 738-746.		0
45	Durability and Performance of Press Molded Polymer Composite Monopolar Plates. , 2004, , .		0
46	Cellular polymer composites based on bi-component fibers. Composites Science and Technology, 2003, 63, 1403-1410.	7.8	7
47	Durability Gap Analysis for Fiber-Reinforced Polymer Composites in Civil Infrastructure. Journal of Composites for Construction, 2003, 7, 238-247.	3.2	376
48	Effects of surface treatment and weave structure on interlaminar fracture behaviour of plain glass woven fabric composites: Part II. Report of the 2nd round robin test results. Composite Interfaces, 2002, 9, 207-218.	2.3	4
49	Fiber-Reinforced Polymer Composites for Constructionâ€™State-of-the-Art Review. Journal of Composites for Construction, 2002, 6, 73-87.	3.2	1,370
50	Effects of molecular relaxation behavior on sized carbon fiberâ€™vinyl ester matrix composite properties. Polymer, 2001, 42, 1633-1645.	3.8	39
51	Characterization and Durability of FRP Structural Shapes and Materials. , 2001, , .		1
52	Characterization of fatigue and combined environment on durability performance of glass/vinyl ester composite for infrastructure applications. International Journal of Fatigue, 2000, 22, 53-64.	5.7	82
53	Latent nucleophilic initiators for melt processing phenolicâ€™epoxy matrix composites. Polymer, 2000, 41, 9033-9048.	3.8	16
54	Effect of surface treatment on mode I interlaminar fracture behaviour of plain glass woven fabric composites: Part I. Report of the 2nd round-robin test results. Composite Interfaces, 2000, 7, 227-242.	2.3	15

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55	Network Structure and Properties of Dimethacrylate-Styrene Matrix Materials. Journal of Composite Materials, 2000, 34, 1512-1528.	2.4	18
56	Laboratory and Field Testing of Composite Bridge Superstructure. Journal of Composites for Construction, 2000, 4, 120-128.	3.2	38
57	Fatigue Model for Fiber-Reinforced Polymeric Composites. Journal of Materials in Civil Engineering, 2000, 12, 97-104.	2.9	23
58	Performance of Tube and Plate Fiberglass Composite Bridge Deck. Journal of Composites for Construction, 2000, 4, 48-55.	3.2	51
59	Influence of Matrix Chemistry on the Short Term, Hydrothermal Aging of Vinyl Ester Matrix and Composites under Both Isothermal and Thermal Spiking Conditions. Journal of Composite Materials, 1999, 33, 1918-1938.	2.4	21
60	Sizing of carbon fibres with aqueous solutions of poly(vinyl pyrrolidone). Polymer, 1998, 39, 2607-2613.	3.8	26
61	Fatigue performance of carbon fibre/vinyl ester composites: the effect of two dissimilar polymeric sizing agents. Polymer, 1998, 39, 3417-3424.	3.8	36
62	The Effect of Polyamic Acid Binder Concentration on the Processability and Properties of LaRC TPI Composites Made by Suspension Prepregging. Journal of Thermoplastic Composite Materials, 1997, 10, 85-105.	4.2	2
63	Interdiffusion at the interface between poly(vinylpyrrolidone) and epoxy. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 331-346.	2.1	23
64	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
65	<title>Nondestructive evaluation of critical composite material structural elements</title> . , 1996, , .		1
66	Characterization of the Fiber-Matrix Interphase and its Influence on Mechanical Properties of Unidirectional Composites. Journal of Composite Materials, 1996, 30, 309-332.	2.4	34
67	Fiber Fracture in Unidirectional Composites. Journal of Composite Materials, 1995, 29, 208-228.	2.4	20
68	The Effect of Fiber-Matrix Interphase Properties on the Quasi-Static Performance of Thermoplastic Composites. Journal of Thermoplastic Composite Materials, 1994, 7, 311-324.	4.2	6
69	Embedded Extrinsic Fabry-Perot Fiber Optic Strain Rosette Sensors. Journal of Intelligent Material Systems and Structures, 1994, 5, 412-417.	2.5	8
70	Damage mechanisms and failure modes in cross-ply laminates under monotonic tensile loading: The influence of fiber sizing. Applied Composite Materials, 1994, 1, 283-300.	2.5	4
71	Micromechanical Model of Composite Materials Subjected to Ball Indentation. Journal of Composite Materials, 1993, 27, 303-329.	2.4	10
72	Embedded Fabry-Perot fiber optic strain sensors in the macromodel composites. Optical Engineering, 1992, 31, 13.	1.0	17

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73	Elevated Temperature Cyclic Fatigue of Silicon Carbide Fiber Reinforced Silicon Carbide Matrix Composites. Ceramic Engineering and Science Proceedings, 0, , 2-12.	0.1	4