

Alan A Barhorst

List of Publications by Year in descending order

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31
papers

286
citations

1040056

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33
all docs

33
docs citations

33
times ranked

158
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Hypertension as a Contributor to Retinal Hemorrhaging from Abusive Head Trauma. Journal of Healthcare Engineering, 2020, 2020, 1-10.	1.9	3
2	Generalized momenta in constrained non-holonomic systems—Another perspective on the canonical equations of motion. International Journal of Non-Linear Mechanics, 2019, 113, 128-145.	2.6	2
3	Uncovering Neural Commands from Noisy Dermal Signals—An Experimental Verification of a Minimalistic Robotic Exoskeletal Hand Design for Medical Rehabilitation. Data-Enabled Discovery and Applications, 2018, 2, 1.	1.2	0
4	Intercondylar Notch Impingement of the Anterior Cruciate Ligament: A Cadaveric In Vitro Study Using Robots. Journal of Healthcare Engineering, 2018, 2018, 1-27.	1.9	2
5	Uncovering a Troll in the Machine. Data-Enabled Discovery and Applications, 2017, 1, 1.	1.2	0
6	Development of a comprehensive assessment technique to invigorate students' problem-solving skills and deter cheating. International Journal of Mechanical Engineering Education, 2015, 43, 265-285.	1.0	3
7	Probability of data loss between mars tumbleweed rovers. , 2015, , .		1
8	Affordable K-12 robotics programs. , 2011, , .		3
9	Modeling Loose Joints in Elastic Structures—Experimental Results and Validation. JVC/Journal of Vibration and Control, 2009, 15, 549-565.	2.6	5
10	General-order Perturbation with a Skew-symmetric Approach for Structural Health Monitoring of a Modular Beam. JVC/Journal of Vibration and Control, 2009, 15, 1783-1807.	2.6	3
11	Modeling Loose Joints in Elastic Structures—Simulation Algorithm and Results. JVC/Journal of Vibration and Control, 2009, 15, 3-24.	2.6	5
12	A Neuro-Muscular Elasto-Dynamic Model of the Human Arm Part 1: Model Development. Journal of Bionic Engineering, 2009, 6, 93-107.	5.0	2
13	A Neuro-Muscular Elasto-Dynamic Model of the Human Arm Part 2: Musculotendon Dynamics and Related Stress Effects. Journal of Bionic Engineering, 2009, 6, 108-119.	5.0	6
14	Application of hybrid parameter methods to biomechanical systems. , 2008, , .		0
15	Modeling Loose Joints in Elastic Structures—Momentum Transfer Model Development. JVC/Journal of Vibration and Control, 2008, 14, 1803-1841.	2.6	4
16	Modeling Loose Joints in Elastic Structures-Variable Structure Motion Model Development. JVC/Journal of Vibration and Control, 2008, 14, 1767-1797.	2.6	9
17	Stochastic analysis of Poisson impact series using discrete form, spectrum analysis and time correlation. Mechanical Systems and Signal Processing, 2007, 21, 151-164.	8.0	3
18	Elasto-dynamic Model of a Segmented Martian Tumbleweed Concept. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
19	Polynomial Interpolated Taylor Series Method for Parameter Identification of Nonlinear Dynamic System. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 248-256.	1.2	8
20	Nonlinear dynamical model and response of avian cranial kinesis. <i>Journal of Theoretical Biology</i> , 2006, 240, 32-47.	1.7	11
21	Systematic closed form modeling of hybrid parameter multiple body systems. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 63-78.	2.6	14
22	On the efficacy of pseudo-coordinatesâ€”Part 1: moving interior constraints. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 123-135.	2.6	10
23	On the efficacy of pseudo-coordinatesâ€”Part 2: moving boundary constraints. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 137-151.	2.6	10
24	Discrete-Wavelet Analysis of Acoustic Emissions During Fatigue Loading of Carbon Fiber Reinforced Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2001, 20, 222-238.	3.1	11
25	Large-displacement nonlinear sloshing in 2-D circular rigid containers â€” prescribed motion of the container. <i>International Journal for Numerical Methods in Engineering</i> , 1998, 41, 195-210.	2.8	15
26	Flexible multibody systems-fluid interaction. <i>International Journal for Numerical Methods in Engineering</i> , 1998, 41, 409-433.	2.8	6
27	Contact/Impact in Hybrid Parameter Multiple Body Mechanical Systemsâ€”Extensions for Higher-Order Continuum Models. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1998, 120, 142-144.	1.6	3
28	Modeling Fluid-Structure Interaction. <i>Journal of Guidance, Control, and Dynamics</i> , 1997, 20, 1221-1228.	2.8	6
29	Discrete wavelet decomposition of acoustic emission signals from carbon-fiber-reinforced composites. <i>Composites Science and Technology</i> , 1997, 57, 389-403.	7.8	87
30	On predicting the fracture behavior of cfr and gfr composites using wavelet-based ae techniques. <i>Engineering Fracture Mechanics</i> , 1997, 58, 363-385.	4.3	23
31	Modeling Hybrid Parameter Multiple Body systems: A different approach. <i>International Journal of Non-Linear Mechanics</i> , 1995, 30, 1-21.	2.6	26