

Colin R Burvill

List of Publications by Year in descending order

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41
papers

635
citations

516215

16
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642321

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all docs

41
docs citations

41
times ranked

517
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental, regression learner, numerical, and artificial neural network analyses on a complex composite structure subjected to compression loading. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 2437-2453.	1.5	11
2	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuli-Responsive, Toxicity, Immunogenicity, and Clinical Translation. <i>Advanced Science</i> , 2022, 9, e2102678.	5.6	76
3	The use of deep learning algorithms to predict mechanical strain from linear acceleration and angular rates of motion recorded from a horse hoof during exercise. <i>International Journal of Mechanical Sciences</i> , 2022, 216, 106972.	3.6	7
4	Feedforward backpropagation artificial neural networks for predicting mechanical responses in complex nonlinear structures: A study on a long bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 128, 105079.	1.5	14
5	A semi-empirical approach to evaluate the effect of constituent materials on mechanical strengths of CFRP mortar pipes. <i>Structures</i> , 2022, 36, 493-510.	1.7	5
6	Thermal response analysis and parameter prediction of additively manufactured polymers. <i>Applied Thermal Engineering</i> , 2022, 212, 118533.	3.0	11
7	Influence of welding sequences on induced residual stress and distortion in pipes. <i>Construction and Building Materials</i> , 2022, 342, 127995.	3.2	9
8	Static and dynamic deformation response of smart laminated composite plates induced by inclined piezoelectric actuators. <i>Journal of Composite Materials</i> , 2022, 56, 3269-3293.	1.2	10
9	Mechanical characterization of particulated FRP composite pipes: A comprehensive experimental study. <i>Polymer Testing</i> , 2021, 93, 107001.	2.3	25
10	Analytical solution of the electro-mechanical flexural coupling between piezoelectric actuators and flexible-spring boundary structure in smart composite plates. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	21
11	A new analytical solution for elastic flexure of thick multi-layered composite hybrid plates resting on Winkler elastic foundation in air and water. <i>Ocean Engineering</i> , 2021, 235, 109372.	1.9	18
12	Linear elastic and hyperelastic studies of equine hoof mechanical response at different hydration levels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 121, 104622.	1.5	6
13	What can artificial intelligence and machine learning tell us? A review of applications to equine biomechanical research. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 123, 104728.	1.5	18
14	Prediction of displacement in the equine third metacarpal bone using a neural network prediction algorithm. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 849-863.	3.3	19
15	Prediction of load in a long bone using an artificial neural network prediction algorithm. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103527.	1.5	19
16	Flexural and free vibration control of smart epoxy composite beams using shape memory alloy wires actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1557-1566.	1.4	17
17	A novel smart assistive knee brace incorporated with shape memory alloy wire actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1543-1556.	1.4	14
18	Prediction of load-displacement curve in a complex structure using artificial neural networks: A study on a long bone. <i>International Journal of Engineering Science</i> , 2020, 154, 103319.	2.7	40

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19	Uniaxial and biaxial ratcheting behavior of pressurized AISI 316L pipe under cyclic loading: Experiment and simulation. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105693.	3.6	22
20	Localized failure analysis of internally pressurized laminated ellipsoidal woven GFRP composite domes: Analytical, numerical, and experimental studies. <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 1235-1250.	1.9	51
21	Accuracy Quantification of the Reverse Engineering and High-Order Finite Element Analysis of Equine MC3 Forelimb. <i>Journal of Equine Veterinary Science</i> , 2019, 78, 94-106.	0.4	11
22	Fatigue life reduction of GFRP composites due to delamination associated with the introduction of functional discontinuities. <i>Composites Part B: Engineering</i> , 2019, 163, 536-547.	5.9	19
23	An investigation on measurement accuracy of digitizing methods in turbine blade reverse engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1653-1671.	1.5	14
24	Fracture of laminated woven GFRP composite pressure vessels under combined low-velocity impact and internal pressure. <i>Archives of Civil and Mechanical Engineering</i> , 2018, 18, 1715-1728.	1.9	18
25	A quadratic piezoelectric multi-layer shell element for FE analysis of smart laminated composite plates induced by MFC actuators. <i>Smart Materials and Structures</i> , 2018, 27, 095004.	1.8	24
26	Investigation of end force distributions during wood bending using a novel differential-end-force sensor. <i>International Wood Products Journal</i> , 2015, 6, 123-130.	0.6	1
27	Industrial environmental performance evaluation: A Markov-based model considering data uncertainty. <i>Environmental Modelling and Software</i> , 2014, 60, 1-17.	1.9	7
28	The role of government, universities, and businesses in advancing technology for SMEs's innovativeness. <i>Journal of Chinese Economic and Business Studies</i> , 2014, 12, 171-180.	1.6	21
29	Motion planning for underactuated bipedal mechanisms with kinematic constraints. , 2013, , .		1
30	Determining an Optimum Model for the Bending of Eucalyptus regnans Wood Heated by Microwave Energy. <i>Forest Products Journal</i> , 2013, 63, 101-111.	0.2	0
31	Tuning natural modes of vibration by prestress in the design of a harmonic gong. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 926-934.	0.5	5
32	Mechanical loading of the distal end of the third metacarpal bone in horses during walking and trotting. <i>American Journal of Veterinary Research</i> , 2010, 71, 508-514.	0.3	21
33	Applicability of published data for fatigue-limited design. <i>Quality and Reliability Engineering International</i> , 2009, 25, 921-932.	1.4	4
34	Influence of Muscle-Tendon Wrapping on Calculations of Joint Reaction Forces in the Equine Distal Forelimb. <i>Journal of Biomedicine and Biotechnology</i> , 2008, 2008, 1-9.	3.0	32
35	Calculation of Joint Reaction Forces in the Equine Distal Forelimb during Walking and Trotting. , 2007, , .		2
36	Enhancing the Quality Function Deployment Conceptual Design Tool. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2007, 129, 701-708.	1.7	15

#	ARTICLE	IF	CITATIONS
37	A modular approach for incorporating mechanistic actuation to manual tasks. , 2006, , .		0
38	Determination of mechanical loading components of the equine metacarpus from measurements of strain during walking. Equine Veterinary Journal, 2006, 38, 440-444.	0.9	9
39	Implementation issues for an inexpensive inverted-pendulum mobile robot. , 2006, , .		3
40	Decoding of the coupling between brain and skin activities in olfactory stimulation by analysis of EEG and GSR signals. Waves in Random and Complex Media, 0, , 1-15.	1.6	8
41	Decoding of facial muscle-brain relation by information-based analysis of electromyogram (EMG) and electroencephalogram (EEG) signals. Waves in Random and Complex Media, 0, , 1-10.	1.6	7