

# Colin R Burvill

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

635  
citations

516215

16  
h-index

642321

23  
g-index

41  
all docs

41  
docs citations

41  
times ranked

517  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Mechanical characterization of particulated FRP composite pipes: A comprehensive experimental study. <i>Polymer Testing</i> , 2021, 93, 107001.	2.3	25
6	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
7	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
8	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
9	The role of government, universities, and businesses in advancing technology for SMEs' innovativeness. <i>Journal of Chinese Economic and Business Studies</i> , 2014, 12, 171-180.	1.6	21
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	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	An investigation on measurement accuracy of digitizing methods in turbine blade reverse engineering. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1653-1671.	1.5	14
20	A novel smart assistive knee brace incorporated with shape memory alloy wire actuator. Journal of Intelligent Material Systems and Structures, 2020, 31, 1543-1556.	1.4	14
21	Feedforward backpropagation artificial neural networks for predicting mechanical responses in complex nonlinear structures: A study on a long bone. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 128, 105079.	1.5	14
22	Accuracy Quantification of the Reverse Engineering and High-Order Finite Element Analysis of Equine MC3 Forelimb. Journal of Equine Veterinary Science, 2019, 78, 94-106.	0.4	11
23	Experimental, regression learner, numerical, and artificial neural network analyses on a complex composite structure subjected to compression loading. Mechanics of Advanced Materials and Structures, 2022, 29, 2437-2453.	1.5	11
24	Thermal response analysis and parameter prediction of additively manufactured polymers. Applied Thermal Engineering, 2022, 212, 118533.	3.0	11
25	Static and dynamic deformation response of smart laminated composite plates induced by inclined piezoelectric actuators. Journal of Composite Materials, 2022, 56, 3269-3293.	1.2	10
26	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
27	Influence of welding sequences on induced residual stress and distortion in pipes. Construction and Building Materials, 2022, 342, 127995.	3.2	9
28	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
29	Industrial environmental performance evaluation: A Markov-based model considering data uncertainty. Environmental Modelling and Software, 2014, 60, 1-17.	1.9	7
30	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
31	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. International Journal of Mechanical Sciences, 2022, 216, 106972.	3.6	7
32	Linear elastic and hyperelastic studies of equine hoof mechanical response at different hydration levels. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104622.	1.5	6
33	Tuning natural modes of vibration by prestress in the design of a harmonic gong. Journal of the Acoustical Society of America, 2012, 131, 926-934.	0.5	5
34	A semi-empirical approach to evaluate the effect of constituent materials on mechanical strengths of GFRP mortar pipes. Structures, 2022, 36, 493-510.	1.7	5
35	Applicability of published data for fatigue-limited design. Quality and Reliability Engineering International, 2009, 25, 921-932.	1.4	4
36	Implementation issues for an inexpensive inverted-pendulum mobile robot. , 2006, , .		3

#	ARTICLE	IF	CITATIONS
37	Calculation of Joint Reaction Forces in the Equine Distal Forelimb during Walking and Trotting. , 2007, , .		2
38	Motion planning for underactuated bipedal mechanisms with kinematic constraints. , 2013, , .		1
39	Investigation of end force distributions during wood bending using a novel differential-end-force sensor. International Wood Products Journal, 2015, 6, 123-130.	0.6	1
40	A modular approach for incorporating mechanistic actuation to manual tasks. , 2006, , .		0
41	Determining an Optimum Model for the Bending of Eucalyptus regnans Wood Heated by Microwave Energy. Forest Products Journal, 2013, 63, 101-111.	0.2	0