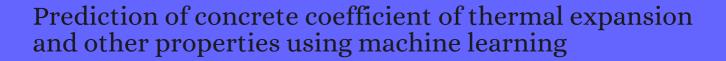
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#	Paper	IF	Citations
45	Development of a prediction method of Rayleigh damping coefficients for free layer damping coatings through machine learning algorithms. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 166, 105237	5.5	17
44	Machine learning and artificial neural network accelerated computational discoveries in materials science. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2020</b> , 10, e1450	7.9	28
43	Mixture Optimization of Recycled Aggregate Concrete Using Hybrid Machine Learning Model. <i>Materials</i> , <b>2020</b> , 13,	3.5	12
42	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. <i>Crystals</i> , <b>2020</b> , 10, 741	2.3	38
41	Density functional theory and machine learning guided search for RE2Si2O7 with targeted coefficient of thermal expansion. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 4489-4497	3.8	3
40	Concrete slump prediction modeling with a fine-tuned convolutional neural network: hybridizing sea lion and dragonfly algorithms. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	1
39	Timber moisture detection using wavelet packet decomposition and convolutional neural network. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 035022	3.4	7
38	Comparative analysis of different machine learning algorithms to predict mechanical properties of concrete. <i>Mechanics of Advanced Materials and Structures</i> , 1-18	1.8	3
37	Random forest-based optimization of UHPFRC under ductility requirements for seismic retrofitting applications. <i>Construction and Building Materials</i> , <b>2021</b> , 285, 122869	6.7	11
36	Classification of cracking sources of different engineering media via machine learning. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2475-2488	3	1
35	Prediction of Mechanical Properties of the Stirrup-Confined Rectangular CFST Stub Columns Using FEM and Machine Learning. <i>Mathematics</i> , <b>2021</b> , 9, 1643	2.3	1
34	Progress in Artificial Intelligence-based Prediction of Concrete Performance. <i>Journal of Advanced Concrete Technology</i> , <b>2021</b> , 19, 924-936	2.3	1
33	Knowledge-enhanced data-driven models for quantifying the effectiveness of PP fibers in spalling prevention of ultra-high performance concrete. <i>Construction and Building Materials</i> , <b>2021</b> , 299, 123946	6.7	3
32	Prediction of seven-day compressive strength of field concrete. <i>Construction and Building Materials</i> , <b>2021</b> , 305, 124604	6.7	4
31	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> , <b>2021</b> , 123, 104728	4.1	5
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29	COMPRESSIVE STRENGTH OF RAPID SULFOALUMINATE CEMENT CONCRETE EXPOSED TO ELEVATED TEMPERATURES. <i>Ceramics - Silikaty</i> , <b>2020</b> , 299-309	0.6	1

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27	A novel experimental setup for the determination of the thermal expansion coefficient of concrete at cryogenic temperatures. <i>Construction and Building Materials</i> , <b>2021</b> , 309, 125134	6.7	1
26	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> , <b>2021</b> , 106972	5.5	1
25	Evaluating the Clogging Behavior of Pervious Concrete (PC) Using the Machine Learning Techniques. <i>CMES - Computer Modeling in Engineering and Sciences</i> , <b>2022</b> , 130, 805-821	1.7	O
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