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Prediction of concrete coefficient of thermal expansion and other properties using machine learning

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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> , 2020 , 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> , 2020 , 10, e1450	7.9	28
43	Mixture Optimization of Recycled Aggregate Concrete Using Hybrid Machine Learning Model. <i>Materials</i> , 2020 , 13,	3.5	12
42	New Prediction Model for the Ultimate Axial Capacity of Concrete-Filled Steel Tubes: An Evolutionary Approach. <i>Crystals</i> , 2020 , 10, 741	2.3	38
41	Density functional theory and machine learning guided search for RE ₂ Si ₂ O ₇ with targeted coefficient of thermal expansion. <i>Journal of the American Ceramic Society</i> , 2020 , 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> , 2021 , 1	5.1	1
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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> , 2021 , 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> , 2021 , 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> , 2021 , 9, 1643	2.3	1
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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> , 2021 , 299, 123946	6.7	3
32	Prediction of seven-day compressive strength of field concrete. <i>Construction and Building Materials</i> , 2021 , 305, 124604	6.7	4
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30	Predicting the Permeability of Pervious Concrete Based on the Beetle Antennae Search Algorithm and Random Forest Model. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-11	1.3	35
29	COMPRESSIVE STRENGTH OF RAPID SULFOALUMINATE CEMENT CONCRETE EXPOSED TO ELEVATED TEMPERATURES. <i>Ceramics - Silikaty</i> , 2020 , 299-309	0.6	1

28	Loess Classification by Region Using Machine Learning Property Values and Reliability Assessment Methods. <i>Science of Advanced Materials</i> , 2021 , 13, 1136-1143	2.3	
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24	Machine-learning and high-throughput studies for high-entropy materials. <i>Materials Science and Engineering Reports</i> , 2022 , 147, 100645	30.9	3
23	Machine-Learning-Algorithm to predict the High-Performance concrete compressive strength using multiple data. <i>Journal of Engineering, Design and Technology</i> , 2022 , ahead-of-print,	1.5	2
22	Deep learning and machine learning-based prediction of capillary water absorption of hybrid fiber reinforced self-compacting concrete. <i>Structural Concrete</i> ,	2.6	2
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