Zhigang Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6192356/publications.pdf

Version: 2024-02-01

43 papers	1,988 citations	304602 22 h-index	265120 42 g-index
43 all docs	43 docs citations	43 times ranked	946 citing authors

#	Article	IF	Citations
1	Evidence of Glacial Erratic Rollover Revealed by ¹⁰Be and ²⁶Al Concentration Variations. Acta Geologica Sinica, 2022, 96, 369-375.	0.8	1
2	Effect of metal type on the energy absorption of fiber metal laminates under low-velocity impact. Mechanics of Advanced Materials and Structures, 2022, 29, 4582-4598.	1.5	11
3	Mechanical performance of strain-hardening cementitious composites (SHCC) with bacterial addition. Journal of Infrastructure Preservation and Resilience, 2022, 3, .	1.5	11
4	Simulation and Modeling of Dynamic Friction Coefficient of Wet Clutch during Engagement. International Journal of Automotive Technology, 2022, 23, 125-134.	0.7	3
5	Mechanisms of oxygen reduction reaction on B doped <scp> FeN ₄ ï£¿G </scp> and <scp> FeN ₄ ï£¿CNT </scp> catalysts for protonâ€exchange membrane fuel cells. International Journal of Energy Research, 2021, 45, 8524-8535.	2.2	10
6	Row End Detection and Headland Turning Control for an Autonomous Banana-Picking Robot. Machines, 2021, 9, 103.	1.2	13
7	An End-to-End Learning-Based Row-Following System for an Agricultural Robot in Structured Apple Orchards. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	5
8	Sustainable high strength, high ductility engineered cementitious composites (ECC) with substitution of cement by rice husk ash. Journal of Cleaner Production, 2021, 317, 128379.	4.6	80
9	Flexural Performance of Emulsified-Asphalt-Modified ECC for Expansion Joint Use. Advances in Civil Engineering, 2021, 2021, 1-9.	0.4	6
10	Eco-friendly high strength, high ductility engineered cementitious composites (ECC) with substitution of fly ash by rice husk ash. Cement and Concrete Research, 2020, 137, 106200.	4.6	145
11	Use of high strength, high ductility engineered cementitious composites (ECC) to enhance the flexural performance of reinforced concrete beams. Journal of Building Engineering, 2020, 32, 101746.	1.6	50
12	Effect of sub-elevated temperature on mechanical properties of ECC with different fly ash contents. Construction and Building Materials, 2020, 262, 120096.	3.2	18
13	Tailoring an impact resistant engineered cementitious composite (ECC) by incorporation of crumb rubber. Construction and Building Materials, 2020, 262, 120116.	3.2	52
14	A machine learning approach to predict explosive spalling of heated concrete. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	21
15	Static and Fatigue Behavior of Rubber-Sleeved Stud Shear Connectors as Part of Field-Cast Ultra-High Performance Concrete Connections. Materials, 2020, 13, 2269.	1.3	11
16	Paving an engineered cementitious composite (ECC) overlay on concrete airfield pavement for reflective cracking resistance. Construction and Building Materials, 2020, 252, 119048.	3.2	54
17	Bearing Strength of Crumb Rubber Concrete under Partial Area Loading. Materials, 2020, 13, 2446.	1.3	11
18	Prediction of Explosive Spalling of Heated Steel Fiber Reinforced Concrete using Artificial Neural Networks. Journal of Advanced Concrete Technology, 2020, 18, 227-240.	0.8	11

#	Article	IF	Citations
19	Combination of Polypropylene Mesh and in Situ Injectable Mussel-Inspired Hydrogel in Laparoscopic Hernia Repair for Preventing Post-Surgical Adhesions in the Piglet Model. ACS Biomaterials Science and Engineering, 2020, 6, 1735-1743.	2.6	30
20	Neural network models to predict explosive spalling of PP fiber reinforced concrete under heating. Journal of Building Engineering, 2020, 32, 101472.	1.6	15
21	Using Green Supplementary Materials to Achieve More Ductile ECC. Materials, 2019, 12, 858.	1.3	40
22	Experimental Study on Damage Detection in ECC-Concrete Composite Beams Using Piezoelectric Transducers. Sensors, 2019, 19, 2799.	2.1	7
23	A Comparative Life Cycle Assessment (LCA) of Warm Mix Asphalt (WMA) and Hot Mix Asphalt (HMA) Pavement: A Case Study in China. Advances in Civil Engineering, 2019, 2019, 1-12.	0.4	20
24	Multiple-scale investigations on self-healing induced mechanical property recovery of ECC. Cement and Concrete Composites, 2019, 103, 293-302.	4.6	74
25	Matrix design of light weight, high strength, high ductility ECC. Construction and Building Materials, 2019, 210, 188-197.	3.2	122
26	Experimental and theoretical investigation of oxidative methane activation on Pdâ€“Pt catalysts. RSC Advances, 2019, 9, 11385-11395.	1.7	1
27	Use of Genetically Modified Bacteria to Repair Cracks in Concrete. Materials, 2019, 12, 3912.	1.3	13
28	Influence of bacterial incorporation on mechanical properties of engineered cementitious composites (ECC). Construction and Building Materials, 2019, 196, 195-203.	3.2	58
29	Feasibility study of ECC with self-healing capacity applied on the long-span steel bridge deck overlay. International Journal of Pavement Engineering, 2019, 20, 884-893.	2.2	33
30	¹⁰Be Exposure Ages Obtained From Quaternary Glacial Landforms on the Tibetan Plateau and in the Surrounding Area. Acta Geologica Sinica, 2018, 92, 786-800.	0.8	9
31	Matrix tailoring of Engineered Cementitious Composites (ECC) with non-oil-coated, low tensile strength PVA fiber. Construction and Building Materials, 2018, 161, 420-431.	3.2	142
32	Improving High-Throughput Phenotyping Using Fusion of Close-Range Hyperspectral Camera and Low-Cost Depth Sensor. Sensors, 2018, 18, 2711.	2.1	21
33	Investigation on the adhesive characteristics of Engineered Cementitious Composites (ECC) to steel bridge deck. Construction and Building Materials, 2018, 191, 679-691.	3.2	54
34	Self-healing ability of Engineered Cementitious Composites (ECC) under different exposure environments. Construction and Building Materials, 2017, 156, 142-151.	3.2	84
35	Ductile Concrete Material with Self-Healing Capacity for Jointless Concrete Pavement Use. Transportation Research Record, 2017, 2640, 78-83.	1.0	34
36	Low E Modulus Early Strength Engineered Cementitious Composites Material. Transportation Research Record, 2015, 2481, 41-47.	1.0	32

#	Article	IF	Citations
37	Investigation on Properties of ECC Incorporating Crumb Rubber of Different Sizes. Journal of Advanced Concrete Technology, 2015, 13, 241-251.	0.8	92
38	Tailoring Engineered Cementitious Composites with local ingredients. Construction and Building Materials, 2015, 101, 584-595.	3.2	141
39	Mechanical performance of ECC with high-volume fly ash after sub-elevated temperatures. Construction and Building Materials, 2015, 99, 82-89.	3.2	155
40	Preparation of poly(<scp>l</scp>â€lactic acid)â€modified polypropylene mesh and its antiadhesion in experimental abdominal wall defect repair. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 12-21.	1.6	30
41	Investigating mechanical properties and self-healing behavior of micro-cracked ECC with different volume of fly ash. Construction and Building Materials, 2014, 52, 17-23.	3.2	195
42	Effect of self-healing on water permeability and mechanical property of Medium-Early-Strength Engineered Cementitious Composites. Construction and Building Materials, 2014, 68, 92-101.	3.2	70
43	Comparison of Tensile Properties of Strain Hardening Cementitious Composite Cured in Normal and Accelerated Conditions. Journal of Testing and Evaluation, 2012, 40, 20120075.	0.4	3