

Zhengxian Yang

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,706
citations

201575

27
h-index

182361

51
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58
all docs

58
docs citations

58
times ranked

2104
citing authors

#	ARTICLE	IF	CITATIONS
1	Drastic promotion of the photocathodic protection property of TiO ₂ nanotube films decorated with n-type CuInS ₂ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161895.	2.8	14
2	The effect of TiO ₂ @CoAl-LDH nanosphere on early hydration of cement and its photocatalytic depollution performance under UV-visible light. <i>Construction and Building Materials</i> , 2022, 319, 126227.	3.2	17
3	Influence of liquid-binder ratio on the performance of alkali-activated slag mortar with superabsorbent polymer. <i>Journal of Building Engineering</i> , 2022, 48, 103934.	1.6	5
4	Interaction between cement and asphalt emulsion and its influences on asphalt emulsion demulsification, cement hydration and rheology. <i>Construction and Building Materials</i> , 2022, 329, 127220.	3.2	17
5	Effect of pretreated cow dung fiber on mechanical and shrinkage properties of cementitious composites. <i>Journal of Cleaner Production</i> , 2022, 348, 131374.	4.6	13
6	The Preparation of g-C ₃ N ₄ /CoAl-LDH Nanocomposites and Their Depollution Performances in Cement Mortars under UV-Visible Light. <i>Catalysts</i> , 2022, 12, 443.	1.6	11
7	Effect of superabsorbent polymer introduction on properties of alkali-activated slag mortar. <i>Construction and Building Materials</i> , 2022, 340, 127541.	3.2	16
8	Effect of different lithological stone powders on properties of cementitious materials. <i>Journal of Cleaner Production</i> , 2021, 289, 125820.	4.6	15
9	Influence of binary waste mixtures on road performance of asphalt and asphalt mixture. <i>Journal of Cleaner Production</i> , 2021, 298, 126842.	4.6	33
10	Sustainable use of ferronickel slag in cementitious composites and the effect on chloride penetration resistance. <i>Construction and Building Materials</i> , 2020, 240, 117969.	3.2	27
11	Efficiency and durability of g-C ₃ N ₄ -based coatings applied on mortar under peeling and washing trials. <i>Construction and Building Materials</i> , 2020, 234, 117438.	3.2	5
12	New insights into long-term chloride transport in unsaturated cementitious materials: Role of degree of water saturation. <i>Construction and Building Materials</i> , 2020, 238, 117677.	3.2	10
13	Pore size dependent connectivity and ionic transport in saturated cementitious materials. <i>Construction and Building Materials</i> , 2020, 238, 117680.	3.2	31
14	Influence of different activators on microstructure and strength of alkali-activated nickel slag cementitious materials. <i>Construction and Building Materials</i> , 2020, 235, 117449.	3.2	40
15	Dependence of unsaturated chloride diffusion on the pore structure in cementitious materials. <i>Cement and Concrete Research</i> , 2020, 127, 105919.	4.6	35
16	Investigations of Mixing Technique on the Rheological Properties of Self-Compacting Concrete. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5189.	1.3	4
17	A Review on the Pumping Behavior of Modern Concrete. <i>Journal of Advanced Concrete Technology</i> , 2020, 18, 352-363.	0.8	24
18	Investigation of PEG/mixed metal oxides as a new form-stable phase change material for thermoregulation and improved UV ageing resistance of bitumen. <i>RSC Advances</i> , 2020, 10, 44903-44911.	1.7	17

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19	Photocatalytic NO _x abatement and self-cleaning performance of cementitious composites with g-C ₃ N ₄ nanosheets under visible light. <i>Construction and Building Materials</i> , 2019, 225, 120-131.	3.2	22
20	Preparation and characterization of PEG/surface-modified layered double hydroxides as a new shape-stabilized phase change material. <i>RSC Advances</i> , 2019, 9, 23435-23443.	1.7	15
21	Steel rebar corrosion in artificial reef concrete with sulphoaluminate cement, sea water and marine sand. <i>Construction and Building Materials</i> , 2019, 227, 116685.	3.2	38
22	Ink-bottle Effect and Pore Size Distribution of Cementitious Materials Identified by Pressurization-Depressurization Cycling Mercury Intrusion Porosimetry. <i>Materials</i> , 2019, 12, 1454.	1.3	42
23	Microstructure-Based Relative Humidity in Cementitious System Due to Self-Desiccation. <i>Materials</i> , 2019, 12, 1214.	1.3	4
24	Preliminary investigation of artificial reef concrete with sulphoaluminate cement, marine sand and sea water. <i>Construction and Building Materials</i> , 2019, 211, 837-846.	3.2	33
25	Chloride Penetration in Coastal Concrete Structures: Field Investigation and Model Development. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-16.	1.0	3
26	Life-cycle sustainability assessment of pavement maintenance alternatives: Methodology and case study. <i>Journal of Cleaner Production</i> , 2019, 213, 659-672.	4.6	94
27	Damage assessment of asphalt concrete with composite additives at the FAM-coarse aggregate interfacial zone. <i>Construction and Building Materials</i> , 2019, 198, 587-596.	3.2	3
28	Characteristics and Applications of Sugar Cane Bagasse Ash Waste in Cementitious Materials. <i>Materials</i> , 2019, 12, 39.	1.3	136
29	Recent Advances in Intrinsic Self-Healing Cementitious Materials. <i>Advanced Materials</i> , 2018, 30, e1705679.	11.1	197
30	Laboratory investigation of graphene oxide suspension as a surface sealer for cementitious mortars. <i>Construction and Building Materials</i> , 2018, 162, 65-79.	3.2	14
31	Impact of nanoclay and carbon microfiber in combating the deterioration of asphalt concrete by non-chloride deicers. <i>Construction and Building Materials</i> , 2018, 160, 514-525.	3.2	25
32	Biogenic sulfuric acid corrosion resistance of new artificial reef concrete. <i>Construction and Building Materials</i> , 2018, 158, 33-41.	3.2	35
33	Mechanical behavior of ultra-high performance concrete (UHPC) using recycled fine aggregate cured under different conditions and the mechanism based on integrated microstructural parameters. <i>Construction and Building Materials</i> , 2018, 192, 489-507.	3.2	94
34	Experimental and numerical study of crack behaviour for capsule-based self-healing cementitious materials. <i>Construction and Building Materials</i> , 2017, 156, 219-229.	3.2	26
35	Laboratory Investigation into the Modification of Transport Properties of High-Volume Fly Ash Mortar by Chemical Admixtures. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, 04017184.	1.3	8
36	The effect of two types of modified Mg-Al hydrotalcites on reinforcement corrosion in cement mortar. <i>Cement and Concrete Research</i> , 2017, 100, 186-202.	4.6	36

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37	Micromechanical Properties of a New Polymeric Microcapsule for Self-Healing Cementitious Materials. <i>Materials</i> , 2016, 9, 1025.	1.3	71
38	Synthesis and characterization of a new polymeric microcapsule and feasibility investigation in self-healing cementitious materials. <i>Construction and Building Materials</i> , 2016, 105, 487-495.	3.2	141
39	Laboratory investigation of the influence of two types of modified hydrotalcites on chloride ingress into cement mortar. <i>Cement and Concrete Composites</i> , 2015, 58, 105-113.	4.6	56
40	Effect on Mechanical Properties and Chloride Penetration Resistance of Modified Hydrotalcite in Cement Mortar. , 2015, , 115-124.		0
41	Synthesis and characterization of modified hydrotalcites and their ion exchange characteristics in chloride-rich simulated concrete pore solution. <i>Cement and Concrete Composites</i> , 2014, 47, 87-93.	4.6	66
42	Modified hydrotalcites as a new emerging class of smart additive of reinforced concrete for anticorrosion applications: A literature review. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 1066-1074.	0.8	57
43	Aminobenzoate modified MgAl hydrotalcites as a novel smart additive of reinforced concrete for anticorrosion applications. <i>Construction and Building Materials</i> , 2013, 47, 1436-1443.	3.2	53
44	Transport Properties of Carbon-Nanotube/Cement Composites. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 184-189.	1.2	120
45	A New Smart Additive of Reinforced Concrete Based on Modified Hydrotalcites: Preparation, Characterization and Anticorrosion Applications. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1488, 103.	0.1	0
46	Longevity of corrosion inhibitors and performance of anti-icing products after pavement application: A case study. <i>Cold Regions Science and Technology</i> , 2012, 83-84, 89-97.	1.6	5
47	Possibilities for improving corrosion protection of reinforced concrete by modified hydrotalcites â€“ a literature review. , 2012, , 95-105.		4
48	A self-healing cementitious composite using oil core/silica gel shell microcapsules. <i>Cement and Concrete Composites</i> , 2011, 33, 506-512.	4.6	260
49	Strength and corrosion properties of Portland cement mortar and concrete with mineral admixtures. <i>Construction and Building Materials</i> , 2011, 25, 3245-3256.	3.2	71
50	Freezeâ€“thaw damage and chemical change of a portland cement concrete in the presence of diluted deicers. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 933-946.	1.3	146
51	Surface-sulfonated polystyrene microspheres improve crack resistance of carbon microfiber-reinforced Portland cement mortar. <i>Journal of Materials Science</i> , 2010, 45, 3497-3505.	1.7	19
52	Laboratory Assessment of a Self-Healing Cementitious Composite. <i>Transportation Research Record</i> , 2010, 2142, 9-17.	1.0	50
53	Corrosion of Deicers to Metals in Transportation Infrastructure: Introduction and Recent Developments. <i>Corrosion Reviews</i> , 2009, 27, 23-52.	1.0	108
54	An electrochemical and microstructural characterization of steel-mortar admixed with corrosion inhibitors. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 52-66.	0.9	28

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55	Effect of styrene-butadiene rubber latex on the chloride permeability and microstructure of Portland cement mortar. <i>Construction and Building Materials</i> , 2009, 23, 2283-2290.	3.2	157
56	Feasibility investigation of self-healing cementitious composite using oil core/silica gel shell passive smart microcapsules. <i>Proceedings of SPIE</i> , 2009, , .	0.8	5
57	Deicer Impacts on Pavement Materials: Introduction and Recent Developments. <i>Open Civil Engineering Journal</i> , 2009, 3, 16-27.	0.4	126