

# Feng Xing

## List of Publications by Year in descending order

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113  
papers

4,127  
citations

117571

34  
h-index

128225

60  
g-index

113  
all docs

113  
docs citations

113  
times ranked

4635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binding Mechanism of CSA Cement on Premixed Clâ” and Its Governing Parameters. Journal of Materials in Civil Engineering, 2022, 34, .	1.3	5
2	Molecular Simulation Study on Mechanical Properties of Microcapsule-Based Self-Healing Cementitious Materials. Polymers, 2022, 14, 611.	2.0	8
3	Bond degradation of rebar and concrete confined with corroded stirrups: effects of concrete grade and casting position. Magazine of Concrete Research, 2022, 74, 1039-1055.	0.9	3
4	Experimental and theoretical study on the mechanical behavior of concrete confined by corroded stirrups. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	1.3	1
5	Effects of Seawater, NaCl, and Na <sub>2</sub> SO <sub>4</sub> Solution Mixing on Hydration Process of Cement Paste. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	20
6	Interfacial Binding Energy between Calcium-Silicate-Hydrates and Epoxy Resin: A Molecular Dynamics Study. Polymers, 2021, 13, 1683.	2.0	12
7	Cement-Based Piezoelectric Ceramic Composites for Sensing Elements: A Comprehensive State-of-the-Art Review. Sensors, 2021, 21, 3230.	2.1	19
8	Degradation mechanism of cement mortar exposed to combined sulfateâ”chloride attack under cyclic wettingâ”drying condition. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	9
9	Quantitative evaluation of cement paste carbonation using Raman spectroscopy. Npj Materials Degradation, 2021, 5, .	2.6	19
10	Enhanced Tensile Strength of Monolithic Epoxy with Highly Dispersed TiO <sub>2</sub> -Graphene Nanocomposites. Journal of Composites Science, 2021, 5, 191.	1.4	1
11	Effect of phosphogypsum on the properties of magnesium phosphate cement paste with low magnesium-to-phosphate ratio. Science of the Total Environment, 2021, 798, 149262.	3.9	22
12	Interfacial jamming reinforced Pickering emulgel for arbitrary architected nanocomposite with connected nanomaterial matrix. Nature Communications, 2021, 12, 111.	5.8	24
13	C-FRCM Jacket Confinement for RC Columns under Impressed Current Cathodic Protection. Journal of Composites for Construction, 2020, 24, .	1.7	15
14	Insights into the Microstructure of Hydrothermal Synthesized Nanoscale K <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -H <sub>2</sub> O Particles. Nanomaterials, 2020, 10, 63.	1.9	7
15	Recent advances in solar-driven evaporation systems. Journal of Materials Chemistry A, 2020, 8, 25571-25600.	5.2	77
16	Molecular Dynamics Study on Mechanical Properties of Interface between Urea-Formaldehyde Resin and Calcium-Silicate-Hydrates. Materials, 2020, 13, 4054.	1.3	6
17	Chloride Distribution and Steel Corrosion in a Concrete Bridge after Long-Term Exposure to Natural Marine Environment. Materials, 2020, 13, 3900.	1.3	20
18	Re-analyzing the mechanical properties of corroded steel bar based on similarity measure. SN Applied Sciences, 2020, 2, 1.	1.5	0

#	ARTICLE	IF	CITATIONS
19	Bond Performance of Carbon Fiber-Reinforced Polymer Bar with Dual Functions of Reinforcement and Cathodic Protection for Reinforced Concrete Structures. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-13.	0.8	4
20	Bonding Performance of Fiber-Reinforced Polymer-to-Concrete Joints under the Effect of Corrosion Cracking. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 342-357.	1.2	1
21	Effect of Graphene Oxide/Graphene Hybrid on Mechanical Properties of Cement Mortar and Mechanism Investigation. <i>Nanomaterials</i> , 2020, 10, 113.	1.9	34
22	Anodic and Mechanical Behavior of Carbon Fiber Reinforced Polymer as a Dual-Functional Material in Chloride-Contaminated Concrete. <i>Materials</i> , 2020, 13, 222.	1.3	7
23	Experimental Study on FRP-to-Concrete Bonded Joints with FRP Sheet Anchor System. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-13.	1.0	1
24	Laboratory investigation of the mode-I fracture of sandstone caused by a combination of freeze-thaw cycles and chemical solutions. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 3689-3706.	1.6	16
25	Influence of Graphene Oxide on Interfacial Transition Zone of Mortar. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-11.	1.5	21
26	Output-Only Damage Detection of Shear Building Structures Using an Autoregressive Model-Enhanced Optimal Subpattern Assignment Metric. <i>Sensors</i> , 2020, 20, 2050.	2.1	7
27	Investigation on the electrochemical and mechanical performance of CFRP and steel-fiber composite bar used for impressed current cathodic protection anode. <i>Construction and Building Materials</i> , 2020, 255, 119377.	3.2	32
28	Chloride-induced corrosion behavior of reinforced cement mortar with MWCNTs. <i>Science and Engineering of Composite Materials</i> , 2020, 27, 281-289.	0.6	5
29	Development of limestone calcined clay cement concrete in South China and its bond behavior with steel reinforcement. <i>Journal of Zhejiang University: Science A</i> , 2020, 21, 892-907.	1.3	19
30	Sustainable recycling of intact carbon fibres from end-of-service-life composites. <i>Green Chemistry</i> , 2019, 21, 4757-4768.	4.6	19
31	Free vibration of two taut cables interconnected by a damper. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2423.	1.9	19
32	Experimental and theoretical investigation on the hybrid CFRP-ECC flexural strengthening of RC beams with corroded longitudinal reinforcement. <i>Engineering Structures</i> , 2019, 200, 109717.	2.6	72
33	Enhanced calcite precipitation for crack healing by bacteria isolated under low-nitrogen conditions. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7971-7982.	1.7	8
34	Synthesis and Properties of Red Mud-Based Nanoferrite Clinker. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	1.5	4
35	Salt-Triggered Release of Hydrophobic Agents from Polyelectrolyte Capsules Generated via One-Step Interfacial Multilevel and Multicomponent Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38353-38360.	4.0	7
36	Combined Impressed Current Cathodic Protection and FRCM Strengthening for Corrosion-Prone Concrete Structures. <i>Journal of Composites for Construction</i> , 2019, 23, .	1.7	40

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37	Effect of Agriculture and Construction Wastes on the Properties of Magnesium Oxychloride Cement Mortar with Tourmaline Powder. <i>Materials</i> , 2019, 12, 115.	1.3	20
38	Recycling of carbon fibre reinforced plastics by electrically driven heterogeneous catalytic degradation of epoxy resin. <i>Green Chemistry</i> , 2019, 21, 1635-1647.	4.6	97
39	A review on the mechanical properties for thin film and block structure characterised by using nanoscratch test. <i>Nanotechnology Reviews</i> , 2019, 8, 628-644.	2.6	38
40	Corrosion Features of the Reinforcing Bar in Concrete with Intelligent OH <sup>-</sup> Regulation of Microcapsules. <i>Materials</i> , 2019, 12, 3966.	1.3	8
41	Stress-Strain Relation of FRP-Confined Predamaged Concrete Prisms with Square Sections of Different Corner Radii Subjected to Monotonic Axial Compression. <i>Journal of Composites for Construction</i> , 2019, 23, .	1.7	47
42	Recent Advances in Intrinsic Self-Healing Cementitious Materials. <i>Advanced Materials</i> , 2018, 30, e1705679.	11.1	197
43	Novel concept of the smart NIR-light-controlled drug release of black phosphorus nanostructure for cancer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 501-506.	3.3	657
44	A proposed strengthening model considering interaction of concrete-stirrup-FRP system for RC beams shear-strengthened with EB-FRP sheets. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 685-700.	1.6	8
45	Damping and frequency of a model cable attached with a pre-tensioned shape memory alloy wire: Experiment and analysis. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2106.	1.9	24
46	Working mechanism of post-curing polycarboxylate superplasticizers containing acrylate segments. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45753.	1.3	31
47	Few-layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700221.	4.4	311
48	Ion-triggered calcium hydroxide microcapsules for enhanced corrosion resistance of steel bars. <i>RSC Advances</i> , 2018, 8, 39536-39544.	1.7	22
49	Effects of Aggregate Types on the Stress-Strain Behavior of Fiber Reinforced Polymer (FRP)-Confined Lightweight Concrete. <i>Sensors</i> , 2018, 18, 3525.	2.1	21
50	Effect of a Healing Agent on the Curing Reaction Kinetics and Its Mechanism in a Self-Healing System. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2241.	1.3	18
51	Turbulent wind characteristics in typhoon Hagupit based on field measurements. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771880593.	1.3	4
52	Mechanical Properties of Hybrid Ultra-High Performance Engineered Cementitious Composites Incorporating Steel and Polyethylene Fibers. <i>Materials</i> , 2018, 11, 1448.	1.3	71
53	Effect of a Synthetic Nano-CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -H <sub>2</sub> O Gel on the Early-Stage Shrinkage Performance of Alkali-Activated Slag Mortars. <i>Materials</i> , 2018, 11, 1128.	1.3	17
54	Uniformly Dispersed and Re-Agglomerated Graphene Oxide-Based Cement Pastes: A Comparison of Rheological Properties, Mechanical Properties and Microstructure. <i>Nanomaterials</i> , 2018, 8, 31.	1.9	38

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55	Free vibration of a taut cable with a damper and a concentrated mass. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2251.	1.9	13
56	Flexural Fatigue Properties of Ultra-High Performance Engineered Cementitious Composites (UHP-ECC) Reinforced by Polymer Fibers. <i>Polymers</i> , 2018, 10, 892.	2.0	37
57	Water Transport Behavior of Concrete: Boundary Condition and Water Influential Depth. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	6
58	Experimental Study on Mechanical Properties and Porosity of Organic Microcapsules Based Self-Healing Cementitious Composite. <i>Materials</i> , 2017, 10, 20.	1.3	61
59	A Comprehensive Review of the Study and Development of Microcapsule Based Self-Resilience Systems for Concrete Structures at Shenzhen University. <i>Materials</i> , 2017, 10, 2.	1.3	71
60	Optimization of a Binary Concrete Crack Self-Healing System Containing Bacteria and Oxygen. <i>Materials</i> , 2017, 10, 116.	1.3	34
61	Self-Sealing Cementitious Materials by Using Water-Swelling Rubber Particles. <i>Materials</i> , 2017, 10, 979.	1.3	3
62	Nano-Silica Sol-Gel and Carbon Nanotube Coupling Effect on the Performance of Cement-Based Materials. <i>Nanomaterials</i> , 2017, 7, 185.	1.9	32
63	Effects of Various Surfactants on the Dispersion of MWCNTsâ€™OH in Aqueous Solution. <i>Nanomaterials</i> , 2017, 7, 262.	1.9	74
64	Dynamic Mechanical Properties and Microstructure of Graphene Oxide Nanosheets Reinforced Cement Composites. <i>Nanomaterials</i> , 2017, 7, 407.	1.9	70
65	Pozzolanic Reactivity of Silica Fume and Ground Rice Husk Ash as Reactive Silica in a Cementitious System: A Comparative Study. <i>Materials</i> , 2016, 9, 146.	1.3	52
66	Micromechanical Properties of a New Polymeric Microcapsule for Self-Healing Cementitious Materials. <i>Materials</i> , 2016, 9, 1025.	1.3	71
67	FRP-Confined Recycled Coarse Aggregate Concrete: Experimental Investigation and Model Comparison. <i>Polymers</i> , 2016, 8, 375.	2.0	37
68	Application of electrical resistance tomography to damage detection in concrete. , 2016, , .		5
69	In-Situ Structural Health Monitoring of a Reinforced Concrete Frame Embedded with Cement-Based Piezoelectric Smart Composites. <i>Research in Nondestructive Evaluation</i> , 2016, 27, 216-229.	0.5	22
70	Interaction of silylated superplasticizers with cementitious materials. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	16
71	Modeling the synergetic effect of various factors on chloride transport in nonsaturated concrete. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 1336-1346.	0.4	3
72	Degradation of carbon fiber reinforced polymer from cathodic protection process on exposure to NaOH and simulated pore water solutions. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 5273-5283.	1.3	25

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73	Self-immunity microcapsules for corrosion protection of steel bar in reinforced concrete. <i>Scientific Reports</i> , 2015, 5, 18484.	1.6	51
74	Free vibrations of a two-cable network with near-support dampers and a cross-link. <i>Structural Control and Health Monitoring</i> , 2015, 22, 1173-1192.	1.9	43
75	Polarization Induced Deterioration of Reinforced Concrete with CFRP Anode. <i>Materials</i> , 2015, 8, 4316-4331.	1.3	11
76	Properties of Cement Mortar by Use of Hot-Melt Polyamides as Substitute for Fine Aggregate. <i>Materials</i> , 2015, 8, 3714-3731.	1.3	5
77	Influence of Ultrafine 2CaO-SiO <sub>2</sub> Powder on Hydration Properties of Reactive Powder Concrete. <i>Materials</i> , 2015, 8, 6195-6207.	1.3	14
78	Investigation on the Mechanical Properties of a Cement-Based Material Containing Carbon Nanotube under Drying and Freeze-Thaw Conditions. <i>Materials</i> , 2015, 8, 8780-8792.	1.3	90
79	Strength Deterioration of Concrete in Sulfate Environment: An Experimental Study and Theoretical Modeling. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-13.	1.0	26
80	The Study on Cracking Strength of AIIs to Release the Early-Age Stress of Mass Concrete. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8.	1.0	0
81	Damping Property of a Cement-Based Material Containing Carbon Nanotube. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	41
82	Experimental study of bond-slip performance of corroded reinforced concrete under cyclic loading. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401557378.	0.8	12
83	Factorial Design Approach in Proportioning Prestressed Self-Compacting Concrete. <i>Materials</i> , 2015, 8, 1089-1107.	1.3	3
84	A novel capsule-based self-recovery system with a chloride ion trigger. <i>Scientific Reports</i> , 2015, 5, 10866.	1.6	63
85	Properties of Chemically Combusted Calcium Carbide Residue and Its Influence on Cement Properties. <i>Materials</i> , 2015, 8, 638-651.	1.3	31
86	Bond behavior of FRP-to-concrete interface under sulfate attack: An experimental study and modeling of bond degradation. <i>Construction and Building Materials</i> , 2015, 85, 9-21.	3.2	89
87	Coupling effect of concrete strength and bonding length on bond behaviors of fiber reinforced polymer-concrete interface. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 421-432.	1.6	18
88	In situ stress monitoring of the concrete beam under static loading with cement-based piezoelectric sensors. <i>Nondestructive Testing and Evaluation</i> , 2015, 30, 312-326.	1.1	11
89	Study on the Carbonation Behavior of Cement Mortar by Electrochemical Impedance Spectroscopy. <i>Materials</i> , 2014, 7, 218-231.	1.3	69
90	Study on Surface Permeability of Concrete under Immersion. <i>Materials</i> , 2014, 7, 876-886.	1.3	27

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91	Experimental Investigation on Pore Structure Characterization of Concrete Exposed to Water and Chlorides. <i>Materials</i> , 2014, 7, 6646-6659.	1.3	50
92	Acoustic Emission Behavior of Early Age Concrete Monitored by Embedded Sensors. <i>Materials</i> , 2014, 7, 6908-6918.	1.3	24
93	Pull-Out Strength and Bond Behavior of Prestressing Strands in Prestressed Self-Consolidating Concrete. <i>Materials</i> , 2014, 7, 6930-6946.	1.3	8
94	Electrical and Mechanical Performance of Carbon Fiber-Reinforced Polymer Used as the Impressed Current Anode Material. <i>Materials</i> , 2014, 7, 5438-5453.	1.3	39
95	Permeation Properties and Pore Structure of Surface Layer of Fly Ash Concrete. <i>Materials</i> , 2014, 7, 4282-4296.	1.3	55
96	Surface Chloride Concentration of Concrete under Shallow Immersion Conditions. <i>Materials</i> , 2014, 7, 6620-6631.	1.3	19
97	Damping of Full-Scale Stay Cable with Viscous Damper: Experiment and Analysis. <i>Advances in Structural Engineering</i> , 2014, 17, 265-274.	1.2	39
98	Influence of cement matrix on properties of 1â€“3 connectivity cement-based piezoelectric composite. <i>Advances in Cement Research</i> , 2014, 26, 302-307.	0.7	3
99	Free vibration of taut cable with a damper and a spring. <i>Structural Control and Health Monitoring</i> , 2014, 21, 996-1014.	1.9	38
100	Study on water sorptivity of the surface layer of concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1941-1951.	1.3	63
101	Experimental Study on Cementitious Composites Embedded with Organic Microcapsules. <i>Materials</i> , 2013, 6, 4064-4081.	1.3	108
102	Experimental Investigation on the Durability of Glass Fiber-Reinforced Polymer Composites Containing Nanocomposite. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-11.	1.5	10
103	A MICROCAPSULE TECHNOLOGY BASED SELF-HEALING SYSTEM FOR CONCRETE STRUCTURES. <i>Journal of Earthquake and Tsunami</i> , 2013, 07, 1350014.	0.7	31
104	The Effect of Recycled Glass Powder and Reject Fly Ash on the Mechanical Properties of Fibre-Reinforced Ultrahigh Performance Concrete. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-8.	1.0	48
105	Coupling effects of influence factors on probability of corrosion initiation time of reinforced concrete. <i>Central South University</i> , 2011, 18, 223-229.	0.5	15
106	Analytic model of non-uniform corrosion induced cracking of reinforced concrete structure. <i>Journal of Central South University</i> , 2011, 18, 940-945.	1.2	12
107	Rehabilitation decision-making for buildings in the Wenchuan area. <i>Construction Management and Economics</i> , 2011, 29, 569-578.	1.8	6
108	Effect of chloride content on bond behavior between FRP and concrete. <i>Transactions of Tianjin University</i> , 2010, 16, 405-410.	3.3	5

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109	Hollow Alumina Microsphere Chain Networks. Journal of the American Ceramic Society, 2009, 92, 280-282.	1.9	4
110	Healing effectiveness of cracks rehabilitation in reinforced concrete using electrodeposition method. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 917-922.	0.4	35
111	Dielectric, Piezoelectric, and Elastic Properties of Cement-Based Piezoelectric Ceramic Composites. Journal of the American Ceramic Society, 2008, 91, 2886-2891.	1.9	39
112	Bundled Silicon Nitride Nanorings. Crystal Growth and Design, 2008, 8, 3921-3923.	1.4	24
113	A comparison between alkali-activated slag/fly ash binders prepared with natural seawater and deionized water. Journal of the American Ceramic Society, 0, , .	1.9	3