

# Zhibin Lin

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42  
papers

843  
citations

14  
h-index

28  
g-index

46  
ext. papers

1,147  
ext. citations

4.2  
avg, IF

4.85  
L-index

#	Paper	IF	Citations
42	Bond mechanism and bond strength of GFRP bars to concrete: A review. <i>Composites Part B: Engineering</i> , <b>2016</b> , 98, 56-69	10	111
41	Data-driven support vector machine with optimization techniques for structural health monitoring and damage detection. <i>KSCE Journal of Civil Engineering</i> , <b>2017</b> , 21, 523-534	1.9	108
40	Three-dimensional corrosion pit measurement and statistical mechanical degradation analysis of deformed steel bars subjected to accelerated corrosion. <i>Construction and Building Materials</i> , <b>2014</b> , 70, 104-117	6.7	82
39	Time-Frequency-Based Data-Driven Structural Diagnosis and Damage Detection for Cable-Stayed Bridges. <i>Journal of Bridge Engineering</i> , <b>2018</b> , 23, 04018033	2.7	61
38	Evaluation and prediction of bond strength of GFRP-bar reinforced concrete using artificial neural network optimized with genetic algorithm. <i>Composite Structures</i> , <b>2017</b> , 161, 441-452	5.3	57
37	New strategy for anchorage reliability assessment of GFRP bars to concrete using hybrid artificial neural network with genetic algorithm. <i>Composites Part B: Engineering</i> , <b>2016</b> , 92, 420-433	10	45
36	Prediction of fatigue life of welded details in cable-stayed orthotropic steel deck bridges. <i>Engineering Structures</i> , <b>2016</b> , 127, 344-358	4.7	45
35	Bond durability assessment and long-term degradation prediction for GFRP bars to fiber-reinforced concrete under saline solutions. <i>Composite Structures</i> , <b>2017</b> , 161, 393-406	5.3	36
34	Experimental study on bond durability of glass fiber reinforced polymer bars in concrete exposed to harsh environmental agents: Freeze-thaw cycles and alkaline-saline solution. <i>Composites Part B: Engineering</i> , <b>2017</b> , 116, 406-421	10	34
33	Mechanical, electrochemical, and durability behavior of graphene nano-platelet loaded epoxy-resin composite coatings. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107103	10	22
32	Graphene Reinforced Composites as Protective Coatings for Oil and Gas Pipelines. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	21
31	Deep BBN Learning for Health Assessment toward Decision-Making on Structures under Uncertainties. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 928-940	1.9	20
30	Nano-Engineered Cements with Enhanced Mechanical Performance. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 564-572	3.8	16
29	Improved semi-active control algorithm for hydraulic damper-based braced buildings. <i>Structural Control and Health Monitoring</i> , <b>2017</b> , 24, e1991	4.5	14
28	Enhanced Protective Coatings Based on Nanoparticle fullerene C60 for Oil & Gas Pipeline Corrosion Mitigation. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	14
27	Machine Learning-Enriched Lamb Wave Approaches for Automated Damage Detection. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14
26	Effect of melting point on thermodynamics of thin PCM reinforced residential frame walls in different climate zones. <i>Applied Thermal Engineering</i> , <b>2021</b> , 188, 116615	5.8	14

25	Bond behavior of GFRP bar-concrete interface: Damage evolution assessment and FE simulation implementations. <i>Composite Structures</i> , <b>2016</b> , 155, 63-76	5.3	14
24	Seismic performance and global ductility of RC frames rehabilitated with retrofitted joints by CFRP laminates. <i>Earthquake Engineering and Engineering Vibration</i> , <b>2014</b> , 13, 59-73	2	13
23	Vibration-Based Support Vector Machine for Structural Health Monitoring. <i>Lecture Notes in Civil Engineering</i> , <b>2018</b> , 167-178	0.3	11
22	Modeling inelastic shear lag in steel box beams. <i>Engineering Structures</i> , <b>2012</b> , 41, 90-97	4.7	11
21	Data-driven structural diagnosis and conditional assessment: from shallow to deep learning <b>2018</b> ,		10
20	Comparative Study of Three Carbon Additives: Carbon Nanotubes, Graphene, and Fullerene-C60, for Synthesizing Enhanced Polymer Nanocomposites. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
19	Robust, hydrophobic anti-corrosion coating prepared by PDMS modified epoxy composite with graphite nanoplatelets/nano-silica hybrid nanofillers. <i>Surface and Coatings Technology</i> , <b>2021</b> , 421, 127440	4.4	8
18	Numerical simulation of fatigue behavior for cable-stayed orthotropic steel deck bridges using mixed-dimensional coupling method. <i>KSCE Journal of Civil Engineering</i> , <b>2017</b> , 21, 2338-2350	1.9	7
17	Analytical and Numerical Investigation of Overstrength Factors for Very Short Shear Links in EBFs. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 4473-4482	1.9	7
16	A Revisit of Fatigue Performance Based Welding Quality Criteria in Bridge Welding Provisions and Guidelines		6
15	Numerical Thermal Characterization and Performance Metrics of Building Envelopes Containing Phase Change Materials for Energy-Efficient Buildings. <i>Sustainability</i> , <b>2018</b> , 10, 2657	3.6	6
14	Enabling Damage Identification of Structures Using Time Series-Based Feature Extraction Algorithms. <i>Journal of Aerospace Engineering</i> , <b>2019</b> , 32, 04019014	1.4	5
13	Optimal Design of Active Tuned Mass Dampers for Mitigating Translational-Torsional Motion of Irregular Buildings. <i>Lecture Notes in Civil Engineering</i> , <b>2018</b> , 586-596	0.3	3
12	RF-powered battery-less Wireless Sensor Network <b>2016</b> ,		3
11	Applications of graphite-enabled phase change material composites to improve thermal performance of cementitious materials. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 264, 012013	0.4	3
10	Electrochemical Characterization of Steel Bridge Welds under Simulated Durability Test. <i>Journal of Bridge Engineering</i> , <b>2018</b> , 23, 04018068	2.7	2
9	Nano-modified functional composite coatings for metallic structures: Part II Mechanical and damage tolerance. <i>Surface and Coatings Technology</i> , <b>2020</b> , 401, 126274	4.4	2
8	On-chip thermal management method based on phase change material <b>2017</b> ,		1

7	RF-powered battery-less Wireless Sensor Network in structural monitoring <b>2016</b> ,		1
6	Modeling of Underconstrained Systems with the Force Method. <i>International Journal of Space Structures</i> , <b>2014</b> , 29, 49-59	0.8	1
5	Nano-modified functional composite coatings for metallic structures: Part I-Electrochemical and barrier behavior. <i>Surface and Coatings Technology</i> , <b>2020</b> , 401, 126286	4.4	1
4	Degradation of epoxy coatings exposed to impingement flow <b>2021</b> , 18, 1153-1164		1
3	Morphologic and synergistic effects of GNP/NS binary-filler-based multifunctional coatings with robust anti-corrosion and hydrophobic properties. <i>Progress in Organic Coatings</i> , <b>2021</b> , 157, 106286	4.8	1
2	Experimental Study to Analyze Feasibility of a Novel Panelized Ground-Source Thermoelectric System for Building Space Heating and Cooling. <i>Energies</i> , <b>2022</b> , 15, 209	3.1	1
1	Numerical study of the feasibility of coupling vacuum isolation panels with phase change material for enhanced energy-efficient buildings. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111369	7	0