Pizhong Qiao

List of Publications by Citations

258 papers	6,752 citations	43 h-index	71 g-index
284 ext. papers	7,731 ext. citations	3.9 avg, IF	6.68 L-index

#	Paper	IF	Citations
258	Vibration-based Damage Identification Methods: A Review and Comparative Study. *Structural Health Monitoring*, **2011**, 10, 83-111	4.4	1168
257	Curvature mode shape-based damage detection in composite laminated plates. *Composite Structures*, **2007**, 80, 409-428	5.3	171
256	Modeling and characterization of fiber-reinforced plastic honeycomb sandwich panels for highway bridge applications. *Composite Structures*, **2001**, 52, 441-452	5.3	161
255	An improved peridynamic approach for quasi-static elastic deformation and brittle fracture analysis. *International Journal of Mechanical Sciences*, **2015**, 94-95, 111-122	5.5	117
254	A 2-D continuous wavelet transform of mode shape data for damage detection of plate structures. *International Journal of Solids and Structures*, **2009**, 46, 4379-4395	3.1	116
253	Local Buckling of Composite FRP Shapes by Discrete Plate Analysis. *Journal of Structural Engineering*, **2001**, 127, 245-255	3	100
252	Analysis and design of pultruded FRP shapes under bending. *Composites Part B: Engineering*, **1996**, 27, 295-305	10	100
251	Explicit local buckling analysis and design of fiber reinforced plastic composite structural shapes. *Composite Structures*, **2005**, 70, 468-483	5.3	98
250	Experimental Damage Identification of Carbon/Epoxy Composite Beams Using Curvature Mode Shapes. *Structural Health Monitoring*, **2004**, 3, 333-353	4.4	97
249	Impact Mechanics and High-Energy Absorbing Materials: Review. *Journal of Aerospace Engineering*, **2008**, 21, 235-248	1.4	94
248	Novel beam analysis of end notched flexure specimen for mode-II fracture. *Engineering Fracture Mechanics*, **2004**, 71, 219-231	4.2	90
247	Interface crack between two shear deformable elastic layers. *Journal of the Mechanics and Physics of Solids*, **2004**, 52, 891-905	5	87
246	Modeling of dynamic responses of CNT-reinforced composite cylindrical shells under impact loads. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 313, 889-903	5.7	79
245	Curvature Mode Shape-based Damage Assessment of Carbon/Epoxy Composite Beams. *Journal of Intelligent Material Systems and Structures*, **2007**, 18, 189-208	2.3	78
244	Mechanics and fracture of crack tip deformable bi-material interface. *International Journal of Solids and Structures*, **2004**, 41, 7423-7444	3.1	74
243	Vibration of beams with arbitrary discontinuities and boundary conditions. *Journal of Sound and Vibration*, **2007**, 308, 12-27	3.9	71
242	Higher-order impact modeling of sandwich structures with flexible core. *International Journal of Solids and Structures*, **2005**, 42, 5460-5490	3.1	70

241	Impact analysis of fiber reinforced polymer honeycomb composite sandwich beams. *Composites Part B: Engineering*, **2007**, 38, 739-750	10	63
240	Nonlinear low-velocity impact analysis of temperature-dependent nanotube-reinforced composite plates. *Composite Structures*, **2014**, 108, 423-434	5.3	61
239	An extended peridynamic approach for deformation and fracture analysis. *Engineering Fracture Mechanics*, **2015**, 141, 196-211	4.2	61
238	Improved Damage Detection for Beam-type Structures using a Uniform Load Surface. *Structural Health Monitoring*, **2007**, 6, 99-110	4.4	60
237	Active Vibration Damping of Composite Beam using Smart Sensors and Actuators. *Journal of Aerospace Engineering*, **2002**, 15, 97-103	1.4	59
236	Semi-analytical solutions to buckling and free vibration analysis of carbon nanotube-reinforced composite thin plates. *Composite Structures*, **2016**, 144, 33-43	5.3	58
235	Waveform fractal dimension for mode shape-based damage identification of beam-type structures. *International Journal of Solids and Structures*, **2008**, 45, 5946-5961	3.1	57
234	Flexural–torsional buckling of fiber-reinforced plastic composite cantilever I-beams. *Composite Structures*, **2003**, 60, 205-217	5.3	56
233	Novel Laplacian scheme and multiresolution modal curvatures for structural damage identification. *Mechanical Systems and Signal Processing*, **2009**, 23, 1223-1242	7.8	54
232	Analytical and Experimental Study of Lateral and Distortional Buckling of FRP Wide-Flange Beams. *Journal of Composites for Construction*, **1997**, 1, 150-159	3.3	54
231	Damage detection of fiber-reinforced polymer honeycomb sandwich beams. *Composite Structures*, **2005**, 67, 365-373	5.3	54
230	A systematic analysis and design approach for single-span FRP deck/stringer bridges. *Composites Part B: Engineering*, **2000**, 31, 593-609	10	54
229	Homogenized elastic properties of honeycomb sandwich with skin effect. *International Journal of Solids and Structures*, **2002**, 39, 2153-2188	3.1	53
228	Flexural–torsional buckling of fiber-reinforced plastic composite open channel beams. *Composite Structures*, **2005**, 68, 211-224	5.3	53
227	Flexural-torsional buckling of pultruded fiber reinforced plastic composite I-beams: experimental and analytical evaluations. *Composite Structures*, **1997**, 38, 241-250	5.3	50
226	Molecular dynamics evaluation of strain rate and size effects on mechanical properties of FCC nickel nanowires. *Computational Materials Science*, **2011**, 50, 903-910	3.2	49
225	On the energy release rate and mode mix of delaminated shear deformable composite plates. *International Journal of Solids and Structures*, **2004**, 41, 2757-2779	3.1	49
224	Cohesive fracture simulation and failure modes of FRP–concrete bonded interfaces. *Theoretical and Applied Fracture Mechanics*, **2008**, 49, 213-225	3.7	48

223	Integrated wavelet transform and its application to vibration mode shapes for the damage detection of beam-type structures. *Smart Materials and Structures*, **2008**, 17, 055014	3.4	47
222	Explicit local buckling analysis of rotationally restrained composite plates under uniaxial compression. *Engineering Structures*, **2008**, 30, 126-140	4.7	47
221	Evaluation of Fracture Energy of Composite-Concrete Bonded Interfaces Using Three-Point Bend Tests. *Journal of Composites for Construction*, **2004**, 8, 352-359	3.3	47
220	Analysis of tapered ENF specimen and characterization of bonded interface fracture under Mode-II loading. *International Journal of Solids and Structures*, **2003**, 40, 1865-1884	3.1	47
219	Novel joint deformation models and their application to delamination fracture analysis. *Composites Science and Technology*, **2005**, 65, 1826-1839	8.6	46
218	Modeling and experimental detection of damage in various materials using the pulse-echo method and piezoelectric sensors/actuators. *Smart Materials and Structures*, **2005**, 14, 1083-1100	3.4	45
217	Damage and progressive failure of concrete structures using non-local peridynamic modeling. *Science China Technological Sciences*, **2011**, 54, 591-596	3.5	44
216	Dynamics-based Damage Detection of Composite Laminated Beams using Contact and Noncontact Measurement Systems. *Journal of Composite Materials*, **2007**, 41, 1217-1252	2.7	44
215	Transverse Shear Stiffness of Composite Honeycomb Core with General Configuration. *Journal of Engineering Mechanics - ASCE*, **2001**, 127, 1144-1151	2.4	43
214	Local Buckling of Elastically Restrained Fiber-Reinforced Plastic Plates and its Application to Box Sections. *Journal of Engineering Mechanics - ASCE*, **2002**, 128, 1324-1330	2.4	43
213	Fiber-Reinforced Composite and Wood Bonded Interfaces: Part 1. Durability and Shear Strength. *Journal of Composites Technology and Research*, **2000**, 22, 224		43
212	Tapered beam on elastic foundation model for compliance rate change of TDCB specimen. *Engineering Fracture Mechanics*, **2003**, 70, 339-353	4.2	41
211	Microstructural damage evolution and its effect on fracture behavior of concrete subjected to freeze-thaw cycles. *International Journal of Damage Mechanics*, **2018**, 27, 1272-1288	3	40
210	A state-based peridynamic model for quantitative fracture analysis. *International Journal of Fracture*, **2018**, 211, 217-235	2.3	40
209	Buckling and postbuckling behavior of shear deformable anisotropic laminated beams with initial geometric imperfections subjected to axial compression. *Engineering Structures*, **2015**, 85, 277-292	4.7	40
208	A new bond failure criterion for ordinary state-based peridynamic mode II fracture analysis. *International Journal of Fracture*, **2019**, 215, 105-128	2.3	39
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206	Debonding analysis of FRP□oncrete interface between two balanced adjacent flexural cracks in plated beams. *International Journal of Solids and Structures*, **2009**, 46, 2618-2628	3.1	37

205	On irregularity-based damage detection method for cracked beams. *International Journal of Solids and Structures*, **2008**, 45, 688-704	3.1	37
204	Local Buckling of Composite Fiber-Reinforced Plastic Wide-Flange Sections. *Journal of Structural Engineering*, **2003**, 129, 125-129	3	36
203	Mechanics of Composite Sinusoidal Honeycomb Cores. *Journal of Aerospace Engineering*, **2005**, 18, 42-50	1.4	35
202	A state-based peridynamic model for quantitative elastic and fracture analysis of orthotropic materials. *Engineering Fracture Mechanics*, **2019**, 206, 147-171	4.2	34
201	Probabilistic damage modeling and service-life prediction of concrete under freeze–thaw action. *Materials and Structures/Materiaux Et Constructions*, **2015**, 48, 2697-2711	3.4	33
200	Microstructural damage characterization of concrete under freeze-thaw action. *International Journal of Damage Mechanics*, **2018**, 27, 1551-1568	3	33
199	A strain energy-based damage severity correction factor method for damage identification in plate-type structures. *Mechanical Systems and Signal Processing*, **2012**, 28, 660-678	7.8	32
198	An improved adhesively bonded bi-material beam model for plated beams. *Engineering Structures*, **2008**, 30, 1949-1957	4.7	32
197	A computational approach for analysis and optimal design of FRP beams. *Computers and Structures*, **1999**, 70, 169-183	4.5	32
196	Analysis of beam-type fracture specimens with crack-tip deformation. *International Journal of Fracture*, **2005**, 132, 223-248	2.3	31
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185	Cohesive fracture and probabilistic damage analysis of freezing□thawing degradation of concrete. *Construction and Building Materials*, **2013**, 47, 879-887	6.7	26
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182	Characterization of Mode-I fracture of hybrid material interface bonds by contoured DCB specimens. *Engineering Fracture Mechanics*, **1997**, 58, 173-192	4.2	25
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179	Vibration analysis of laminated composite plates with damage using the perturbation method. *Composites Part B: Engineering*, **2015**, 72, 160-174	10	24
178	On the Compliance and Energy Release Rate of Generically-unified Beam-type Fracture Specimens. *Journal of Composite Materials*, **2011**, 45, 65-101	2.7	24
177	Bond behavior of epoxy-coated rebar in ultra-high performance concrete. *Construction and Building Materials*, **2018**, 182, 406-417	6.7	24
176	An axisymmetric ordinary state-based peridynamic model for linear elastic solids. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 341, 517-550	5.7	23
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174	EXPLICIT LOCAL BUCKLING ANALYSIS OF ROTATIONALLY RESTRAINED COMPOSITE PLATES UNDER BIAXIAL LOADING. *International Journal of Structural Stability and Dynamics*, **2007**, 07, 487-517	1.9	22
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171	Improved hybrid wavelet neural network methodology for time-varying behavior prediction of engineering structures. *Neural Computing and Applications*, **2009**, 18, 821-832	4.8	21
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165	Buckling and postbuckling of anisotropic laminated cylindrical shells under combined external pressure and axial compression in thermal environments. *Composite Structures*, **2015**, 119, 709-726	5.3	19
164	On the modeling of tensile behavior of ultra-high performance fiber-reinforced concrete with freezing-thawing actions. *Composites Part B: Engineering*, **2019**, 174, 106983	10	19
163	Explicit local buckling analysis of rotationally-restrained orthotropic plates under uniform shear. *Composite Structures*, **2011**, 93, 2785-2794	5.3	19
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160	Nonlinear impact analysis of fully backed composite sandwich structures. *Composites Science and Technology*, **2005**, 65, 551-562	8.6	19
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157	Peridynamic simulation of two-dimensional axisymmetric pull-out tests. *International Journal of Solids and Structures*, **2019**, 168, 41-57	3.1	18
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147	Crack Growth Resistance of Hybrid Fiber-Reinforced Cement Matrix Composites. *Journal of Aerospace Engineering*, **2011**, 24, 154-161	1.4	17
146	Tensile behavior of ultra-high performance concrete: Analytical model and experimental validation. *Construction and Building Materials*, **2019**, 201, 842-851	6.7	17
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144	Optimization of transverse shear moduli for composite honeycomb cores. *Composite Structures*, **2008**, 85, 265-274	5.3	16
143	Fatigue Life Prediction of Pultruded E-glass/Polyurethane Composites. *Journal of Composite Materials*, **2006**, 40, 815-837	2.7	16
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132	Application of Wave Propagation Analysis for Damage Identification in Composite Laminated Beams. *Journal of Composite Materials*, **2005**, 39, 1967-1984	2.7	13
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127	Impact and Damage Prediction of Sandwich Beams with Flexible Core Considering Arbitrary Boundary Effects. *Journal of Sandwich Structures and Materials*, **2007**, 9, 411-444	2.1	12
126	On the Linear Viscoelasticity of Thin-Walled Laminated Composite Beams. *Journal of Composite Materials*, **2000**, 34, 39-68	2.7	12
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124	A two-dimensional ordinary state-based peridynamic model for elastic and fracture analysis. *Engineering Fracture Mechanics*, **2020**, 232, 107040	4.2	11
123	Delamination identification of laminated composite plates using a continuum damage mechanics model and subset selection technique. *Smart Materials and Structures*, **2010**, 19, 055024	3.4	11
122	Dynamic Characteristics and Effective Stiffness Properties of Honeycomb Composite Sandwich Structures for Highway Bridge Applications. *Journal of Composites for Construction*, **2006**, 10, 148-160	3.3	11
121	Nonlinear stability analysis of rotationally-restrained imperfect doubly-curved composite shallow shells. *Thin-Walled Structures*, **2019**, 142, 358-368	4.7	10
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113	A novel semi-analytical method for buckling analysis of stiffened laminated composite plates. *Thin-Walled Structures*, **2020**, 148, 106575	4.7	8
112	Mixed mode fracture characterization of GFRP-concrete bonded interface using four-point single leg bending test. *Engineering Structures*, **2018**, 171, 647-657	4.7	8
111	Post-local-buckling of fiber-reinforced plastic composite structural shapes using discrete plate analysis. *Thin-Walled Structures*, **2014**, 84, 68-77	4.7	8
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98	Electromechanical Behavior of Interface Deformable Piezoelectric Bilayer Beams. *Journal of Engineering Mechanics - ASCE*, **2010**, 136, 413-428	2.4	7

97	Effects of overheight truck impacts on intermediate diaphragms in prestressed concrete bridge girders. *PCI Journal*, **2010**, 55, 58-78	2.1	7
96	Virtual crack closure technique in peridynamic theory. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 372, 113318	5.7	7
95	Energy release rate of beam-type fracture specimens with hygrothermal influence. *International Journal of Damage Mechanics*, **2016**, 25, 1214-1234	3	7
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91	EXPLICIT LOCAL BUCKLING ANALYSIS OF ROTATIONALLY- AND VERTICALLY-RESTRAINED ORTHOTROPIC PLATES UNDER UNIAXIAL COMPRESSION. *International Journal of Structural Stability and Dynamics*, **2012**, 12, 1250038	1.9	6
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89	Simultaneous evaluation of composite biodeterioration and changes in the physicochemical and biological water characteristics. *International Biodeterioration and Biodegradation*, **2003**, 52, 187-196	4.8	6
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