M Abdel-Wahab

List of Publications by Citations

329 papers	8,198 citations	56 h-index	77 g-index
352 ext. papers	10,002 ext. citations	2.8 avg, IF	7.03 L-index

#	Paper	IF	Citations
329	DAMAGE DETECTION IN BRIDGES USING MODAL CURVATURES: APPLICATION TO A REAL DAMAGE SCENARIO. *Journal of Sound and Vibration*, **1999**, 226, 217-235	3.9	354
328	Modelling anomalous moisture uptake, swelling and thermal characteristics of a rubber toughened epoxy adhesive. *International Journal of Adhesion and Adhesives*, **2005**, 25, 1-12	3.4	174
327	A refined quasi-3D isogeometric analysis for functionally graded microplates based on the modified couple stress theory. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 313, 904-940	5.7	169
326	Isogeometric analysis of functionally graded carbon nanotube-reinforced composite plates using higher-order shear deformation theory. *Composite Structures*, **2015**, 123, 137-149	5.3	157
325	Nonlinear transient isogeometric analysis of smart piezoelectric functionally graded material plates based on generalized shear deformation theory under thermo-electro-mechanical loads. *Nonlinear Dynamics*, **2017**, 87, 879-894	5	141
324	Analysis of laminated composite plates integrated with piezoelectric sensors and actuators using higher-order shear deformation theory and isogeometric finite elements. *Computational Materials Science*, **2015**, 96, 495-505	3.2	124
323	A simple four-unknown shear and normal deformations theory for functionally graded isotropic and sandwich plates based on isogeometric analysis. *Composite Structures*, **2016**, 139, 77-95	5.3	124
322	Porosity-dependent nonlinear transient responses of functionally graded nanoplates using isogeometric analysis. *Composites Part B: Engineering*, **2019**, 164, 215-225	10	124
321	Size-dependent isogeometric analysis of functionally graded carbon nanotube-reinforced composite nanoplates. *Composite Structures*, **2017**, 166, 120-135	5.3	117
320	Damage modelling of adhesively bonded joints. *International Journal of Fracture*, **2006**, 141, 147-161	2.3	116
319	An isogeometric approach for size-dependent geometrically nonlinear transient analysis of functionally graded nanoplates. *Composites Part B: Engineering*, **2017**, 118, 125-134	10	112
318	Modelling the environmental degradation of adhesively bonded aluminium and composite joints using a CZM approach. *International Journal of Adhesion and Adhesives*, **2007**, 27, 505-518	3.4	105
317	Finite element analysis of fretting wear under variable coefficient of friction and different contact regimes. *Tribology International*, **2017**, 107, 274-282	4.9	104
316	Structural health monitoring using modal strain energy damage indicator coupled with teaching-learning-based optimization algorithm and isogoemetric analysis. *Journal of Sound and Vibration*, **2019**, 448, 230-246	3.9	101
315	Prediction of fretting fatigue crack initiation and propagation lifetime for cylindrical contact configuration. *Tribology International*, **2014**, 76, 73-91	4.9	96
314	Improved ANN technique combined with Jaya algorithm for crack identification in plates using XIGA and experimental analysis. *Theoretical and Applied Fracture Mechanics*, **2020**, 107, 102554	3.7	90
313	Fast simulations for solving fracture mechanics inverse problems using POD-RBF XIGA and Jaya algorithm. *Engineering Fracture Mechanics*, **2019**, 205, 285-300	4.2	90

312	A generalized layerwise higher-order shear deformation theory for laminated composite and sandwich plates based on isogeometric analysis. *Acta Mechanica*, **2016**, 227, 1225-1250	2.1	87
311	The size-dependent thermal bending and buckling analyses of composite laminate microplate based on new modified couple stress theory and isogeometric analysis. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 350, 337-361	5.7	86
310	Fretting fatigue crack initiation lifetime predictor tool: Using damage mechanics approach. *Tribology International*, **2013**, 60, 176-186	4.9	84
309	The effect of environment on the fatigue of bonded composite joints. Part 1: testing and fractography. *Composites Part A: Applied Science and Manufacturing*, **2001**, 32, 45-58	8.4	84
308	An efficient computational approach for control of nonlinear transient responses of smart piezoelectric composite plates. *International Journal of Non-Linear Mechanics*, **2015**, 76, 190-202	2.8	83
307	Isogeometric analysis for nonlinear thermomechanical stability of functionally graded plates. *Composite Structures*, **2016**, 140, 655-667	5.3	81
306	Crack identification method in beam-like structures using changes in experimentally measured frequencies and Particle Swarm Optimization. *Comptes Rendus - Mecanique*, **2018**, 346, 110-120	2.1	80
305	Fatigue in Adhesively Bonded Joints: A Review. *ISRN Materials Science*, **2012**, 2012, 1-25		78
304	Damage identification in reinforced concrete structures by dynamic stiffness determination. *Engineering Structures*, **2000**, 22, 1339-1349	4.7	78
303	An efficient artificial neural network for damage detection in bridges and beam-like structures by improving training parameters using cuckoo search algorithm. *Engineering Structures*, **2019**, 199, 109637	4.7	77
302	Predicting the residual strength for environmentally degraded adhesive lap joints. *International Journal of Adhesion and Adhesives*, **2006**, 26, 325-336	3.4	76
301	Multiscale analysis of the effect of roughness on fretting wear. *Tribology International*, **2017**, 110, 222-231	4.9	75
300	Environmental degradation of the interfacial fracture energy in an adhesively bonded joint. *Engineering Fracture Mechanics*, **2002**, 69, 2113-2128	4.2	75
299	Prediction of fatigue thresholds in adhesively bonded joints using damage mechanics and fracture mechanics. *Journal of Adhesion Science and Technology*, **2001**, 15, 763-781	2	75
298	Isogeometric analysis of functionally graded carbon nanotube reinforced composite nanoplates using modified couple stress theory. *Composite Structures*, **2018**, 184, 633-649	5.3	74
297	Isogeometric analysis for size-dependent nonlinear thermal stability of porous FG microplates. *Composite Structures*, **2019**, 221, 110838	5.3	73
296	Prediction of fretting fatigue crack initiation in double lap bolted joint using Continuum Damage Mechanics. *International Journal of Fatigue*, **2015**, 73, 66-76	5	72
295	PARAMETERIZATION OF DAMAGE IN REINFORCED CONCRETE STRUCTURES USING MODEL UPDATING. *Journal of Sound and Vibration*, **1999**, 228, 717-730	3.9	72

294	Model Updating for Nam O Bridge Using Particle Swarm Optimization Algorithm and Genetic Algorithm. *Sensors*, **2018**, 18,	3.8	71
293	Vibration analysis of cracked FGM plates using higher-order shear deformation theory and extended isogeometric approach. *International Journal of Mechanical Sciences*, **2015**, 96-97, 65-78	5.5	68
292	Investigating Fatigue Damage Evolution In Adhesively Bonded Structures Using Backface Strain Measurement **2002**, 78, 745-776		68
291	Damage assessment in structures using combination of a modified Cornwell indicator and genetic algorithm. *Engineering Structures*, **2018**, 177, 421-430	4.7	68
290	Geometrically nonlinear isogeometric analysis of laminated composite plates based on higher-order shear deformation theory. *International Journal of Non-Linear Mechanics*, **2015**, 72, 42-52	2.8	67
289	Fretting fatigue crack nucleation: A review. *Tribology International*, **2018**, 121, 121-138	4.9	66
288	An isogeometric approach of static and free vibration analyses for porous FG nanoplates. *European Journal of Mechanics, A/Solids*, **2019**, 78, 103851	3.7	66
287	Effect of Temperature on Dynamic System Parameters of a Highway Bridge. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **1997**, 7, 266-270	1	66
286	A study of adhesively bonded joints subjected to constant and variable amplitude fatigue. *International Journal of Fatigue*, **2004**, 26, 1189-1196	5	66
285	Damage detection in CFRP composite beams based on vibration analysis using proper orthogonal decomposition method with radial basis functions and cuckoo search algorithm. *Composite Structures*, **2018**, 187, 344-353	5.3	65
284	Nonlinear transient isogeometric analysis of FG-CNTRC nanoplates in thermal environments. *Composite Structures*, **2018**, 201, 882-892	5.3	64
283	Finite element analysis of stress singularity in partial slip and gross sliding regimes in fretting wear. *Wear*, **2014**, 321, 53-63	3.5	64
282	Effect of Temperature on the Quasi-static Strength and Fatigue Resistance of Bonded Composite Double Lap Joints **2001**, 75, 61-88		62
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280	Structural damage detection using transmissibility together with hierarchical clustering analysis and similarity measure. *Structural Health Monitoring*, **2017**, 16, 711-731	4.4	60
279	Effect of pitch difference between the bolt□ut connections upon the anti-loosening performance and fatigue life. *Materials and Design*, **2016**, 96, 476-489	8.1	60
278	An investigation into the crack initiation and propagation behaviour of bonded single-lap joints using backface strain. *International Journal of Adhesion and Adhesives*, **2009**, 29, 361-371	3.4	60
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274	A modified transmissibility indicator and Artificial Neural Network for damage identification and quantification in laminated composite structures. *Composite Structures*, **2020**, 248, 112497	5.3	59
273	Continuum damage modelling of environmental degradation in joints bonded with EA9321 epoxy adhesive. *International Journal of Adhesion and Adhesives*, **2008**, 28, 302-313	3.4	56
272	Finite element analysis of fretting fatigue under out of phase loading conditions. *Tribology International*, **2017**, 109, 552-562	4.9	55
271	Damage detection using transmissibility compressed by principal component analysis enhanced with distance measure. *JVC/Journal of Vibration and Control*, **2018**, 24, 2001-2019	2	55
270	Numerical prediction of fretting fatigue crack trajectory in a railway axle using XFEM. *International Journal of Fatigue*, **2017**, 100, 32-49	5	54
269	A computational approach for crack identification in plate structures using XFEM, XIGA, PSO and Jaya algorithm. *Theoretical and Applied Fracture Mechanics*, **2019**, 103, 102240	3.7	53
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266	Fretting fatigue stress analysis in heterogeneous material using direct numerical simulations in solid mechanics. *Tribology International*, **2017**, 109, 124-132	4.9	49
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263	Modelling the Environmental Degradation of the Interface in Adhesively Bonded Joints using a Cohesive Zone Approach **2006**, 82, 1061-1089		48
262	The effect of residual strains on the progressive damage modelling of environmentally degraded adhesive joints. *Journal of Adhesion Science and Technology*, **2005**, 19, 525-547	2	43
261	Modelling Environmental Degradation in EA9321-Bonded Joints using a Progressive Damage Failure Model **2006**, 82, 135-160		43
260	A damage identification technique for beam-like and truss structures based on FRF and Bat Algorithm. *Comptes Rendus - Mecanique*, **2018**, 346, 1253-1266	2.1	43
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254	Numerical Estimation of Fretting Fatigue Lifetime Using Damage and Fracture Mechanics. *Tribology Letters*, **2013**, 52, 11-25	2.8	39
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252	A continuum damage mechanics approach for fretting fatigue under out of phase loading. *Tribology International*, **2018**, 117, 39-51	4.9	39
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248	An isogeometric finite element approach for thermal bending and buckling analyses of laminated composite plates. *Composite Structures*, **2017**, 179, 35-49	5.3	36
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245	Size-dependent nonlinear analysis and damping responses of FG-CNTRC micro-plates. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 353, 253-276	5.7	35
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237	A novel machine-learning based on the global search techniques using vectorized data for damage detection in structures. *International Journal of Engineering Science*, **2020**, 157, 103376	5.7	31
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233	On the use of fracture mechanics in designing a single lap adhesive joint. *Journal of Adhesion Science and Technology*, **2000**, 14, 851-865	2	30
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221	Crack growth in adhesively bonded joints subjected to variable frequency fatigue loading **2003**, 79, 1161-1182		24
220	Strain energy release rate formulae for 3D finite element. *Engineering Fracture Mechanics*, **1995**, 50, 569-580	4.2	24
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218	A layerwise C0-type higher order shear deformation theory for laminated composite and sandwich plates. *Comptes Rendus - Mecanique*, **2018**, 346, 57-76	2.1	24
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216	Fretting fatigue damage nucleation under out of phase loading using a continuum damage model for non-proportional loading. *Tribology International*, **2018**, 121, 204-213	4.9	22
215	Effect of hygrothermal aging in distilled and saline water on the mechanical behaviour of mixed short fibre/woven composites. *Composite Structures*, **2019**, 207, 816-825	5.3	22
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212	Evaluation of Fatigue Damage in Adhesive Bonding: Part 2: Single Lap Joint. *Journal of Adhesion Science and Technology*, **2010**, 24, 325-345	2	20
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208	Regression modeling and prediction of road sweeping brush load characteristics from finite element analysis and experimental results. *Waste Management*, **2015**, 43, 19-27	8.6	18
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201	Mixed-mode fatigue crack growth in FM73 bonded joints. *International Journal of Adhesion and Adhesives*, **2013**, 40, 188-196	3.4	15
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199	A hybrid computational intelligence approach for structural damage detection using marine predator algorithm and feedforward neural networks. *Computers and Structures*, **2021**, 252, 106568	4.5	15
198	Experimental determination of the fatigue life of modified threaded pipe couplings. *Procedia Engineering*, **2010**, 2, 1849-1858		14
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196	Damage detection using vibration data and dynamic transmissibility ensemble with auto-associative neural network. *Mechanika*, **2017**, 23,	1.5	14
195	Free Vibration of a Perfectly Clamped-Free Beam with Stepwise Eccentric Distributed Masses. *Shock and Vibration*, **2016**, 2016, 1-10	1.1	14
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184	Numerical Modeling of the Effect of Randomly Distributed Inclusions on Fretting Fatigue-Induced Stress in Metals. *Metals*, **2018**, 8, 836	2.3	12
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176	The effect of cataphoretic and powder coatings on the strength and failure modes of EN AW-5754 aluminium alloy adhesive joints. *International Journal of Adhesion and Adhesives*, **2019**, 89, 40-50	3.4	11
175	A multi-phase model for transformation plasticity using thermodynamics-based metallurgical algorithm. *International Journal of Mechanical Sciences*, **2018**, 148, 135-148	5.5	11
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168	Effectiveness of gutter brushes in removing street sweeping waste. *Waste Management*, **2010**, 30, 174-84	8.6	9
167	Dynamics of an unconstrained oscillatory flicking brush for road sweeping. *Journal of Sound and Vibration*, **2007**, 307, 778-801	3.9	9
166	Damage detection in girder bridges using modal curvatures gapped smoothing method and Convolutional Neural Network: Application to Bo Nghi bridge. *Theoretical and Applied Fracture Mechanics*, **2020**, 109, 102728	3.7	9
165	The effect of a critical micro-void defect on fretting fatigue crack initiation in heterogeneous material using a multiscale approach. *Tribology International*, **2020**, 141, 105909	4.9	9
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160	Finite element models for brush-debris interaction in road sweeping. *Acta Mechanica*, **2010**, 215, 71-84	2.1	8
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