Ac AltuniÅÏK

List of Publications by Year
in descending order

136 papers	2,292 citations	257450 24 h-index	330143 37 g-index
140 all docs	140 docs citations	140 times ranked	1339 citing authors

#	Article	IF	Citations
1	Seismic Response of a Historical Masonry Minaret using a Finite Element Model Updated with Operational Modal Testing. JVC/Journal of Vibration and Control, 2011, 17, 129-149.	2.6	92
2	Modal Parameter Identification of Hagia Sophia Bell-Tower viaÂAmbient Vibration Test. Journal of Nondestructive Evaluation, 2009, 28, 37-47.	2.4	75
3	Modal parameter identification and vibration based damage detection of a multiple cracked cantilever beam. Engineering Failure Analysis, 2017, 79, 154-170.	4.0	74
4	Comparison of near- and far-fault ground motion effect onÂtheÂnonlinear response of damâ€"reservoirâ€"foundation systems. Nonlinear Dynamics, 2009, 58, 655-673.	5.2	64
5	Experimental frequencies and damping ratios for historical masonry arch bridges. Construction and Building Materials, 2015, 75, 234-241.	7.2	64
6	Comparison of near-fault and far-fault ground motion effects on geometrically nonlinear earthquake behavior of suspension bridges. Natural Hazards, 2012, 64, 593-614.	3.4	61
7	Vibration-based damage detection in beam structures with multiple cracks: modal curvature vs. modal flexibility methods. Nondestructive Testing and Evaluation, 2019, 34, 33-53.	2.1	58
8	Finite element model updating effects on nonlinear seismic response of arch damâ€"reservoirâ€"foundation systems. Finite Elements in Analysis and Design, 2011, 47, 85-97.	3.2	51
9	Finite-Element Analysis and Vibration Testing of a Two-Span Masonry Arch Bridge. Journal of Performance of Constructed Facilities, 2010, 24, 46-52.	2.0	50
10	Performance and damages of reinforced concrete buildings during the October 23 and November 9, 2011 Van, Turkey, earthquakes. Soil Dynamics and Earthquake Engineering, 2013, 53, 49-72.	3.8	50
11	Finite element model calibration effects on the earthquake response of masonry arch bridges. Finite Elements in Analysis and Design, 2011, 47, 621-634.	3.2	49
12	Assessment of nonlinear seismic performance of a restored historical arch bridge using ambient vibrations. Nonlinear Dynamics, 2011, 63, 755-770.	5.2	47
13	Earthquake Behavior of Berke Arch Dam Using Ambient Vibration Test Results. Journal of Performance of Constructed Facilities, 2012, 26, 780-792.	2.0	43
14	Ambient vibration testing and seismic behavior of historical arch bridges under near and far fault ground motions. Bulletin of Earthquake Engineering, 2016, 14, 241-259.	4.1	41
15	Experimental and analytical system identification of Eynel arch type steel highway bridge. Journal of Constructional Steel Research, 2011, 67, 1912-1921.	3.9	37
16	Near-fault ground motion effects on the nonlinear response of dam-reservoir-foundation systems. Structural Engineering and Mechanics, 2008, 28, 411-442.	1.0	37
17	Experimental study on control performance of tuned liquid column dampers considering different excitation directions. Mechanical Systems and Signal Processing, 2018, 102, 59-71.	8.0	35
18	Finite Element Model Updating of Senyuva Historical Arch Bridge Using Ambient Vibration Tests. Baltic Journal of Road and Bridge Engineering, 2009, 4, 177-185.	0.8	34

#	Article	IF	Citations
19	Dynamic analyses of experimentally-updated FE model of historical masonry clock towers using site-specific seismic characteristics and scaling parameters according to the 2018 Turkey building earthquake code. Engineering Failure Analysis, 2019, 105, 402-426.	4.0	31
20	Construction stage analysis of Humber Suspension Bridge. Applied Mathematical Modelling, 2012, 36, 5492-5505.	4.2	30
21	Seismic damage assessment of masonry buildings in ElazÄ±ÄŸ and Malatya following the 2020 ElazÄ±ÄŸ-Sivrice earthquake, Turkey. Bulletin of Earthquake Engineering, 2021, 19, 2421-2456.	4.1	30
22	Dynamic response of masonry minarets strengthened with Fiber Reinforced Polymer (FRP) composites. Natural Hazards and Earth System Sciences, 2011, 11, 2011-2019.	3.6	28
23	Ambient vibration based seismic evaluation of isolated GÃ¼lburnu highway bridge. Soil Dynamics and Earthquake Engineering, 2011, 31, 1496-1510.	3.8	28
24	Structural identification of a cantilever beam with multiple cracks: Modeling and validation. International Journal of Mechanical Sciences, 2017, 130, 74-89.	6.7	28
25	Free vibrations of laminated composite beams with multiple edge cracks: Numerical model and experimental validation. International Journal of Mechanical Sciences, 2019, 159, 30-42.	6.7	28
26	Modal parameter identification of RC frame under undamaged, damaged, repaired and strengthened conditions. Measurement: Journal of the International Measurement Confederation, 2018, 124, 260-276.	5.0	25
27	Automated Model Updating of Historical Masonry Structures Based on Ambient Vibration Measurements. Journal of Performance of Constructed Facilities, 2018, 32, .	2.0	25
28	ANALYTICAL AND OPERATIONAL MODAL ANALYSES OF TURKISH STYLE REINFORCED CONCRETE MINARETS FOR STRUCTURAL IDENTIFICATION. Experimental Techniques, 2009, 33, 65-75.	1.5	24
29	Non-destructive testing of an ancient Masonry Bastion. Journal of Cultural Heritage, 2016, 22, 1049-1054.	3.3	24
30	Field Investigation of the Performance of Masonry Buildings during the October 23 and November 9, 2011, Van Earthquakes in Turkey. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	24
31	Automated model updating of multiple cracked cantilever beams for damage detection. Journal of Constructional Steel Research, 2017, 138, 499-512.	3.9	24
32	Finite element model updating of KÃ¶mÃ¼rhan highway bridge based on experimental measurements. Smart Structures and Systems, 2010, 6, 373-388.	1.9	24
33	Effect of the model updating on the earthquake behavior of steel storage tanks. Journal of Constructional Steel Research, 2010, 66, 462-469.	3.9	23
34	Damages of minarets during ErciÅŸ and Edremit Earthquakes, 2011 in Turkey. Smart Structures and Systems, 2014, 14, 479-499.	1.9	23
35	Experimental evaluation of crack effects on the dynamic characteristics of a prototype arch dam using ambient vibration tests. Computers and Concrete, 2012, 10, 277-294.	0.7	21
36	Modal Testing, Finite-Element Model Updating, and Dynamic Analysis of an Arch Type Steel Footbridge. Journal of Performance of Constructed Facilities, 2009, 23, 81-89.	2.0	20

#	Article	IF	Citations
37	Determination of Water Level Effects on the Dynamic Characteristics of a Prototype Arch Dam Model using Ambient Vibration Testing. Experimental Techniques, 2012, 36, 72-82.	1.5	20
38	Multiple-support seismic response of Bosporus Suspension Bridge for various random vibration methods. Case Studies in Structural Engineering, 2016, 5, 54-67.	1.6	20
39	Output-Only System Identification of Posttensioned Segmental Concrete Highway Bridges. Journal of Bridge Engineering, 2011, 16, 259-266.	2.9	19
40	Modal testing and finite element model calibration of an arch type steel footbridge. Steel and Composite Structures, 2007, 7, 487-502.	1.3	19
41	Wave-passage effect on the seismic response of suspension bridges considering local soil conditions. International Journal of Steel Structures, 2017, 17, 501-513.	1.3	18
42	Non-destructive modal parameter identification of historical timber bridges using ambient vibration tests after restoration. Measurement: Journal of the International Measurement Confederation, 2019, 146, 411-424.	5.0	18
43	Dynamic response of concrete gravity dams using different water modelling approaches: westergaard, lagrange and euler. Computers and Concrete, 2015, 16, 429-448.	0.7	17
44	Vibration Characteristics of Kömürhan Highway Bridge Constructed with Balanced Cantilever Method. Journal of Performance of Constructed Facilities, 2009, 23, 90-99.	2.0	16
45	An Investigation of the Seismic Behaviour of an Ancient Masonry Bastion Using Non-Destructive and Numerical Methods. Experimental Mechanics, 2017, 57, 245-259.	2.0	16
46	Dynamic response of a historical armory building using the finite element model validated by the ambient vibration test. JVC/Journal of Vibration and Control, 2018, 24, 5472-5484.	2.6	16
47	Structural identification of concrete arch dams by ambient vibration tests. Advances in Concrete Construction, 2013, 1, 227-237.	0.4	16
48	Construction stage analysis of Kömürhan Highway Bridge using time dependent material properties. Structural Engineering and Mechanics, 2010, 36, 207-223.	1.0	16
49	Estimation of Elasticity Modulus of a Prototype Arch Dam Using Experimental Methods. Journal of Materials in Civil Engineering, 2012, 24, 321-329.	2.9	15
50	CFRP composite retrofitting effect on the dynamic characteristics of arch dams. Soil Dynamics and Earthquake Engineering, 2015, 74, 1-9.	3.8	15
51	Lateral buckling failure of steel cantilever roof of a tribune due to snow loads. Engineering Failure Analysis, 2017, 72, 67-78.	4.0	15
52	Field Investigation on the Performance of Mosques and Minarets during the Elazig-Sivrice Earthquake. Journal of Performance of Constructed Facilities, 2020, 34, .	2.0	15
53	Damage Localization in Laminated Composite Beams with Multiple Edge Cracks Based on Vibration Measurements. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 75-87.	1.9	15
54	Evaluation of blast effects on reinforced concrete buildings considering Operational Modal Analysis results. Soil Dynamics and Earthquake Engineering, 2010, 30, 310-319.	3.8	14

#	ARTICLE	IF	CITATIONS
55	Vibration-based operational modal analysis of the Mikron historic arch bridge after restoration. Civil Engineering and Environmental Systems, 2011, 28, 247-259.	0.9	14
56	Structural Condition Assessment of Birecik Highway Bridge Using Operational Modal Analysis. International Journal of Civil Engineering, 2016, 14, 35-46.	2.0	14
57	The effect of arch geometry on the structural behavior of masonry bridges. Smart Structures and Systems, 2015, 16, 1069-1089.	1.9	14
58	Ambient Vibration Tests of a Steel Footbridge. Journal of Nondestructive Evaluation, 2010, 29, 14-24.	2.4	13
59	Structural Performance Evaluation of 90 RC Buildings Collapsed during the 2011 Van, Turkey, Earthquakes. Journal of Performance of Constructed Facilities, 2015, 29, .	2.0	13
60	Experimental evaluation of damage effect on dynamic characteristics of concrete encased composite column-beam connections. Engineering Failure Analysis, 2018, 91, 129-150.	4.0	13
61	Multiple damage detection in laminated composite beams using automated model update. Structures, 2021, 34, 1665-1683.	3.6	13
62	Post-Earthquake Damage Assessments of Historic Mosques and Effects of Near-Fault and Far-Fault Ground Motions on Seismic Responses. International Journal of Architectural Heritage, 2023, 17, 1043-1078.	3.1	13
63	Retrofitting Effect on the Dynamic Properties of Model-Arch Dam with and without Reservoir Water Using Ambient-Vibration Test Methods. Journal of Structural Engineering, 2016, 142, .	3.4	12
64	Performance Evaluation of Reinforced Concrete Buildings During the Sivrice-ElazÄ±ÄŸ Earthquake (Mw=6.8, January 24, 2020) in Accordance with Turkish Earthquake Code. Journal of Earthquake and Tsunami, 2021, 15, .	1.3	12
65	A study on seismic behaviour of masonry mosques after restoration. Earthquake and Structures, 2016, 10, 1331-1346.	1.0	12
66	Investigation of water length effects on the modal behavior of a prototype arch dam using operational and analytical modal analyses. Structural Engineering and Mechanics, 2011, 37, 593-615.	1.0	12
67	Finite-Element Model Updating and Dynamic Responses of Reconstructed Historical Timber Bridges using Ambient Vibration Test Results. Journal of Performance of Constructed Facilities, 2020, 34, .	2.0	11
68	Assessment of Structural Damage Following the October 30, 2020 Aegean Sea Earthquake and Tsunami. Journal of Earthquake and Tsunami, 2021, 15, .	1.3	11
69	Contribution of local site-effect on the seismic response of suspension bridges to spatially varying ground motions. Earthquake and Structures, 2016, 10, 1233-1251.	1.0	11
70	Seismic safety assessment of eynel highway steel bridge using ambient vibration measurements. Smart Structures and Systems, 2012, 10, 131-154.	1.9	11
71	Finite Element Model Updating and Dynamic Analysis of a Restored Historical Timber Mosque Based on Ambient Vibration Tests. Journal of Testing and Evaluation, 2019, 47, 3533-3562.	0.7	11
72	Safety assessment of structures for near-field blast-induced ground excitations using operational modal analysis. Soil Dynamics and Earthquake Engineering, 2012, 39, 23-36.	3.8	10

#	Article	IF	Citations
73	Damage effect on experimental modal parameters of haunch strengthened concrete-encased composite columnâ€"beam connections. International Journal of Damage Mechanics, 2020, 29, 297-334.	4.2	10
74	Numerical and Experimental Investigation on Dynamic Characteristic Changes of Encased Steel Profile Before and After Cyclic Loading Tests. International Journal of Civil Engineering, 2020, 18, 1411-1431.	2.0	10
75	Environmental effects on the dynamic characteristics of the GÃ¼lburnu Highway Bridge. Civil Engineering and Environmental Systems, 2014, 31, 347-366.	0.9	9
76	Structural health assessment and restoration procedure of an old riveted steel arch bridge. Soil Dynamics and Earthquake Engineering, 2016, 83, 148-161.	3.8	9
77	Sensitivity-Based Model Updating of Building Frames using Modal Test Data. KSCE Journal of Civil Engineering, 2018, 22, 4038-4046.	1.9	9
78	Vibrations of a Box-Sectional Cantilever Timoshenko Beam with Multiple Cracks. International Journal of Steel Structures, 2019, 19, 635-649.	1.3	9
79	Effects of Concrete Strength and Openings in Infill Walls on Blasting Responses of RC Buildings Subjected to TNT Explosive. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 2525-2554.	1.9	9
80	Construction stage analysis of fatih sultan mehmet suspension bridge. Structural Engineering and Mechanics, 2012, 42, 489-505.	1.0	9
81	Lessons learned from the past earthquakes on building performance in Turkey. Journal of Structural Engineering & Applied Mechanics, 2020, 3, 61-84.	0.3	9
82	Earthquake analysis of reinorced concrete minarets using ambient vibration test results. Structural Design of Tall and Special Buildings, 2010, 19, 257-273.	1.9	8
83	Dynamic Field Test, System Identification, and Modal Validation of an RC Minaret: Preprocessing and Postprocessing the Wind-Induced Ambient Vibration Data. Journal of Performance of Constructed Facilities, 2011, 25, 336-356.	2.0	8
84	Comparison of earthquake behavior of reinforced concrete minarets using fiber-reinforced polymer composite. Structural Design of Tall and Special Buildings, 2013, 22, 749-758.	1.9	8
85	Dynamic Characteristics of an Arch Dam Model before and after Strengthening with Consideration of Reservoir Water. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	8
86	Earthquake response of heavily damaged historical masonry mosques after restoration. Natural Hazards and Earth System Sciences, 2017, 17, 1811-1821.	3.6	8
87	Ambient Vibration-Based System Identification of a Medieval Masonry Bastion for Health Assessment using Nonlinear Analyses. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 107-124.	1.0	8
88	Numerical Modeling of Masonry Infilled Reinforced Concrete Building during Construction Stages Using ABAQUS Software. Buildings, 2019, 9, 181.	3.1	8
89	Determination of structural behavior of Bosporus suspension bridge considering construction stages and different soil conditions. Steel and Composite Structures, 2014, 17, 405-429.	1.3	8
90	Static and dynamic responses of Halgavor Footbridge using steel and FRP materials. Steel and Composite Structures, 2015, 18, 51-69.	1.3	8

#	Article	IF	Citations
91	Automated Model Updating Effect on the Linear and Nonlinear Dynamic Responses of Historical Masonry Structures. Experimental Techniques, 2018, 42, 605-621.	1.5	7
92	Model updatingâ€based automated damage detection of concreteâ€encased composite columnâ€beam connections. Structural Control and Health Monitoring, 2020, 27, e2600.	4.0	7
93	Diagnosis and Monitoring of Historical Timber VelipaÅŸa Han Building Prior to Restoration. International Journal of Architectural Heritage, 0, , 1-25.	3.1	7
94	Construction stages analyses using time dependent material properties of concrete arch dams. Computers and Concrete, 2014, 14, 599-612.	0.7	7
95	Finite element model updating of an arch type steel laboratory bridge model using semi-rigid connection. Steel and Composite Structures, 2010, 10, 541-561.	1.3	7
96	Finite Modeling Updating Effects on the Dynamic Response of Building Models. Journal of Testing and Evaluation, 2017, 45, 1630-1649.	0.7	7
97	Nondestructive Experimental Measurement, Model Updating, and Fatigue Life Assessment of Ã‡arÅŸamba Suspension Bridge. Journal of Bridge Engineering, 2022, 27, .	2.9	7
98	Structural condition assessment of a historical masonry school building using experimental and numerical methods. Journal of Civil Structural Health Monitoring, 2022, 12, 1083-1113.	3.9	7
99	Stochastic seismic analysis of KÃ¶mÃ¼rhan Highway Bridge with varying material properties. Civil Engineering and Environmental Systems, 2015, 32, 193-205.	0.9	6
100	Experimental Investigation on Acceptable Difference Value in Modal Parameters for Model Updating Using RC Building Models. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2019, 29, 150-159.	0.8	6
101	Assessment of modal characteristics of cross-laminated timber beams subject to successive damages. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	6
102	Ambient vibration testing of Berta Highway Bridge with post-tension tendons. Steel and Composite Structures, 2014, 16, 21-44.	1.3	6
103	Investigation of earthquake angle effect on the seismic performance of steel bridges. Steel and Composite Structures, 2016, 22, 855-874.	1.3	6
104	Determination of the restoration effect on the structural behavior of masonry arch bridges. Smart Structures and Systems, 2015, 16, 101-139.	1.9	6
105	Ambient vibration test and modelling of historical timber mosques after restoration. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2020, 173, 956-968.	0.8	5
106	Optimal Sensor Placement for Laminated Composite and Steel Cantilever Beams by the Effective Independence Method. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2021, 31, 85-92.	0.8	5
107	Dynamic Characteristics of a Prototype Arch Dam. Experimental Mechanics, 2011, 51, 787-791.	2.0	4
108	Performance Evaluation of Gravity Dams Subjected to Near- and Far-Fault Ground Motion Using Euler Approaches. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 297-325.	1.9	4

#	Article	IF	Citations
109	Modal identification and fatigue behavior of Eynel steel arch highway bridge with calibrated models. Journal of Civil Structural Health Monitoring, 2021, 11, 1337-1354.	3.9	4
110	Manual model updating of highway bridges under operational condition. Smart Structures and Systems, 2017, 19, 39-46.	1.9	4
111	Automatic Estimation of Post-fire Compressive Strength Reduction of Masonry Structures Using Deep Convolutional Neural Network. Fire Technology, 2022, 58, 2779-2809.	3.0	4
112	Time dependent changing of dynamic characteristics of laboratory arch dam model. KSCE Journal of Civil Engineering, 2015, 19, 1069-1077.	1.9	3
113	Annular Cylindrical Liquid Column Dampers for Control of Structural Vibrations. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 479-490.	1.9	3
114	Dynamic response of a traditional hÄ±mÄ±ÅŸ mansion using updated FE model with operational modal testing. Journal of Building Engineering, 2021, 43, 103060.	3.4	3
115	Analytical and experimental modal analyses of a highway bridge model. Computers and Concrete, 2013, 12, 803-818.	0.7	3
116	Automated Estimation of Exposed Temperature and Strength Changing Ratio for Fire-Damaged Concrete Using Deep Learning Method. Experimental Techniques, 2022, 46, 793-810.	1.5	3
117	Earthquake Behaviour of KÃ¶mÃ¼rhan Highway Bridge Using a Validated Finite Element Model. Journal of Testing and Evaluation, 2010, 38, 467-481.	0.7	3
118	Nonlinear Dynamic Response of a RC Frame for Different Structural Conditions Including the Effect of FE Model Updating. International Journal of Civil Engineering, 2020, 18, 551-567.	2.0	2
119	Elevated Temperature Effect on the Dynamic Characteristics of Steel Columns and Frames. International Journal of Steel Structures, 2021, 21, 861-882.	1.3	2
120	Stochastic response of suspension bridges for various spatial variability models. Steel and Composite Structures, 2016, 22, 1001-1018.	1.3	2
121	Effect of Fiber-Reinforced Polymer Strengthening on Dynamic Characteristics of Reinforced Concrete Frame Using Model Updating. ACI Structural Journal, 2018, 115, .	0.2	2
122	Effect of Ground Motion Scaling Methods on Seismic Response of Masonry Clock Towers. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 0, , 1.	1.9	2
123	Comparison of the dynamic responses of GÃ¼lburnu Highway Bridge using single and triple concave friction pendulums. Earthquake and Structures, 2014, 7, 511-525.	1.0	1
124	Effect of Construction Errors on the Snow-Induced Failure of a Tribuneâ€™s Columns and Roof. Journal of Performance of Constructed Facilities, 2017, 31, 04016107.	2.0	1
125	Experimental, numerical and analytical investigation on blast response of brick walls subjected to TNT explosive. Journal of Structural Engineering & Applied Mechanics, 2021, 4, 28-45.	0.3	1
126	Dynamic Characteristics Monitoring Changes of Damaged and Retrofitted RC Buildings. Experimental Techniques, 2022, 46, 457-484.	1.5	1

#	Article	IF	Citations
127	Experimental study on annular cylindrical tuned liquid dampers for vibration control under different excitation angles. Journal of Structural Engineering & Applied Mechanics, 2021, 4, 163-183.	0.3	1
128	Experimental identification of box girder bridge model under undamaged and damaged conditions considering time effect. Computers and Concrete, 2016, 18, 827-851.	0.7	1
129	Experimental Investigation on Dynamic Characteristics Changes of Fire Exposed Reinforced Concrete and Steel Members. Fire Technology, 2022, 58, 1169-1208.	3.0	1
130	Nondestructive Testing Structural Bridge Identification. , 2016, , .		0
131	Finite element model updating effect on the structural behavior of long span concrete highway bridges. Computers and Concrete, 2014, 14, 745-765.	0.7	0
132	Collapse of steel cantilever roof of tribune induced by snow loads. Steel and Composite Structures, 2017, 23, 273-283.	1.3	0
133	Determination of rebar effect on dynamic characteristics and dynamic behavior of reinforced concrete bridges. Journal of Structural Engineering & Applied Mechanics, 2020, 3, 1-17.	0.3	0
134	Blast-induced ground motion effect on dynamic response of a cylindrical vertical water tank with piled raft foundation. Challenge Journal of Structural Mechanics, 2020, 6, 120.	0.3	0
135	Structural modeling in object-oriented based software by utilizing data tables. Journal of Construction Engineering Management & Innovation, 2021, 4, 267-273.	0.3	0
136	SÃ¶nÃ¼m OranlarÄ±nÄ±n Tarihi Bir YÄ±ÄŸma Konukevi BinasÄ±nÄ±n Sismik DavranÄ±ÅŸÄ±na Etkisi. Recep Tayyip ErdogÌ†an UÌˆniversitesi Fen Ve MuÌˆhendislik Bilimleri Dergisi, 0, , .	0.2	0