

# Alper Ilki

## List of Publications by Year in descending order

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96  
papers

2,230  
citations

236912

25  
h-index

254170

43  
g-index

105  
all docs

105  
docs citations

105  
times ranked

1238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Damages and Failures of Structures in İzmir (Turkey) during the October 30, 2020 Aegean Sea Earthquake. Journal of Earthquake Engineering, 2023, 27, 1565-1606.	2.5	13
2	Effects of Seismic Damage and Retrofitting on a Full-scale Substandard RC Building-Ambient Vibration Tests. Journal of Earthquake Engineering, 2022, 26, 5747-5774.	2.5	8
3	Post-fire Seismic Behavior of RC Columns Built with Sustainable Concrete. Journal of Earthquake Engineering, 2022, 26, 6869-6892.	2.5	7
4	Performance of structures in İzmir after the Samos island earthquake. Bulletin of Earthquake Engineering, 2022, 20, 7793-7818.	4.1	32
5	Seismic Performance of CFRP Jacketed Sub-standard RC Columns Under High Axial Stress and Shear Demand. Lecture Notes in Civil Engineering, 2022, , 1278-1290.	0.4	1
6	Seismic Performance of Substandard RC Columns Retrofitted with Sprayed GFRM. Lecture Notes in Civil Engineering, 2022, , 1317-1328.	0.4	0
7	Seismic Behavior of Repaired and Externally FRP-Jacketed Short Columns Built with Extremely Low-Strength Concrete. Journal of Composites for Construction, 2022, 26, .	3.2	16
8	Low strength concrete: Stress-strain curve, modulus of elasticity and tensile strength. Structures, 2022, 38, 1615-1632.	3.6	8
9	Residual load bearing capacity and failure mechanism of impacted high-strength reinforced concrete shear beams. Engineering Failure Analysis, 2021, 121, 105185.	4.0	16
10	Shear-flexure interaction in RAC columns under simulated seismic actions. Engineering Structures, 2021, 231, 111746.	5.3	17
11	Cyclic Compressive Behavior of Hybrid FRP-Confined Concrete. Journal of Composites for Construction, 2021, 25, .	3.2	3
12	Diagonal tensile tests on historical brick masonry wallets strengthened with fabric reinforced cementitious mortar. Structures, 2021, 33, 935-946.	3.6	16
13	Experimental and numerical investigation of a proposed monolithic-like precast concrete column-foundation connection. Engineering Structures, 2021, 246, 113090.	5.3	13
14	Seismic Collapse Performance of a Full-Scale Concrete Building with Lightly Reinforced Columns. Journal of Structural Engineering, 2021, 147, 04021207.	3.4	3
15	Large Scale Experimental Settlement Tests to Evaluate Structural Models for Tunnelling-Induced Damage Analysis. Lecture Notes in Civil Engineering, 2021, , 164-171.	0.4	5
16	Development of a monolithic-like precast beam-column moment connection: Experimental and analytical investigation. Engineering Structures, 2020, 205, 110057.	5.3	26
17	Effect of impact loading on residual flexural capacity of high-strength reinforced concrete beams. Structures, 2020, 27, 2466-2480.	3.6	16
18	Hanger replacement influence on seismic response of suspension bridges: Implementation to the Bosphorus Bridge subjected to multi-support excitation. Earthquake Engineering and Structural Dynamics, 2020, 49, 1496-1518.	4.4	5

#	ARTICLE	IF	CITATIONS
19	Deformable Polyurethane Joints and Fibre Grids for Resilient Seismic Performance of Reinforced Concrete Frames with Orthoblock Brick Infills. <i>Polymers</i> , 2020, 12, 2869.	4.5	23
20	Effect of Fire Damage on Seismic Behavior of Cast-in-Place Reinforced Concrete Columns. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	9
21	Impact of time after fire on post-fire seismic behavior of RC columns. <i>Structures</i> , 2020, 26, 537-548.	3.6	10
22	Determination of Monitoring Parameters for Fatigue Behavior of Steel-Concrete Composite Bridge Girders with Welded Full Depth Transverse Stiffeners. <i>Sustainability</i> , 2020, 12, 283.	3.2	2
23	Post-fire seismic performance of precast reinforced concrete columns. <i>PCI Journal</i> , 2020, 65, 62-80.	0.6	6
24	A two-stage numerical analysis approach for the assessment of the settlement response of the pre-damaged historic Hoca Pasha Mosque. <i>International Journal of Architectural Heritage</i> , 2019, 13, 704-724.	3.1	12
25	Seismic performance of full-scale RC columns containing high proportion recycled aggregate. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 6009-6037.	4.1	26
26	Axial Behavior of Noncircular High-Performance Fiber-Reinforced Cementitious Composite Members Externally Jacketed by CFRP Sheets. <i>Journal of Composites for Construction</i> , 2019, 23, 04019022.	3.2	5
27	Seismic Retrofit of Full-Scale Substandard Extended Rectangular RC Columns through CFRP Jacketing: Test Results and Design Recommendations. <i>Journal of Composites for Construction</i> , 2019, 23, .	3.2	30
28	Sprayed Glass Fiberâ€“Reinforced Mortar with or without Basalt Textile Reinforcement for Jacketing of Low-Strength Concrete Prisms. <i>Journal of Composites for Construction</i> , 2019, 23, .	3.2	17
29	Seismic Retrofit of Joints of a Full-Scale 3D Reinforced Concrete Frame with FRP Composites. <i>Journal of Composites for Construction</i> , 2019, 23, .	3.2	17
30	Low-Elevation Impact Tests of Axially Loaded Reinforced Concrete Columns. <i>ACI Structural Journal</i> , 2019, 116, .	0.2	14
31	FACTORS AFFECTING SEISMIC BEHAVIOUR OF REINFORCED CONCRETE STRUCTURES AFTER FIRE EXPOSURE. <i>NED University Journal of Research</i> , 2019, 1, 31-41.	0.1	2
32	Seismic Performance of a Full-Scale FRP Retrofitted Sub-standard RC Building. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2018, , 519-544.	0.2	2
33	Code Based Performance Prediction for a Full-Scale FRP Retrofitted Building Test. <i>Springer Natural Hazards</i> , 2018, , 467-477.	0.3	3
34	Structural health monitoring system of the long-span bridges in Turkey. <i>Structure and Infrastructure Engineering</i> , 2018, 14, 425-444.	3.7	32
35	Building response to tunnelling- and excavation-induced ground movements: using transfer functions to review the limiting tensile strain method. <i>Structure and Infrastructure Engineering</i> , 2018, 14, 766-779.	3.7	9
36	From experiments to seismic design rules for structures built with reinforced autoclaved aerated concrete panels. <i>Ce/Papers</i> , 2018, 2, 275-282.	0.3	1

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37	Evaluation of diaphragm conditions in AAC floor structures with RC beams. Bulletin of Earthquake Engineering, 2018, 16, 6131-6162.	4.1	4
38	Assessment of Axial Behavior of Circular HPFRCC Members Externally Confined with FRP Sheets. Polymers, 2018, 10, 138.	4.5	3
39	Hybrid confinement of concrete through use of low and high rupture strain FRP. Composites Part B: Engineering, 2018, 153, 243-255.	12.0	51
40	Field testing of substandard RC buildings through forced vibration tests. Bulletin of Earthquake Engineering, 2017, 15, 3245-3263.	4.1	6
41	External Jacketing of Unreinforced Historical Masonry Piers with Open-Grid Basalt-Reinforced Mortar. Journal of Composites for Construction, 2017, 21, .	3.2	49
42	Seismic performance of three-storey full-scale sub-standard reinforced concrete buildings. Bulletin of Earthquake Engineering, 2017, 15, 3293-3320.	4.1	6
43	Flexural Retrofit of Support Regions of Reinforced Concrete Beams with Anchored FRP Ropes Using NSM and ETS Methods under Reversed Cyclic Loading. Journal of Composites for Construction, 2017, 21, .	3.2	31
44	Monotonic and Cyclic Bond Behavior of Deformed CFRP Bars in High Strength Concrete. Polymers, 2016, 8, 211.	4.5	28
45	Evaluation of FRP Confinement Models for Substandard Rectangular RC Columns Based on Full-Scale Reversed Cyclic Lateral Loading Tests in Strong and Weak Directions. Polymers, 2016, 8, 323.	4.5	17
46	Seismic Performance of Full-Scale FRP Retrofitted Substandard RC Columns Loaded in the Weak Direction. Applied Mechanics and Materials, 2016, 847, 347-353.	0.2	3
47	Effect of Corrosion on Bond Mechanism between Extremely Low-Strength Concrete and Plain Reinforcing Bars. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	14
48	Cyclic and Monotonic Compression Behavior of CFRP-Jacketed Damaged Noncircular Concrete Prisms. Journal of Composites for Construction, 2016, 20, .	3.2	31
49	Seismic Behavior of Reinforced Concrete Columns with Corroded Deformed Reinforcing Bars. ACI Structural Journal, 2016, 113, .	0.2	54
50	Indoor and outdoor pullout tests for retrofit anchors in low strength concrete. Computers and Concrete, 2016, 18, 951-968.	0.7	0
51	Mitigating Seismic Risks in Historical Masonry: An Example Project. , 2015, , .		0
52	Seismic Behavior of Substandard RC Columns Retrofitted with Embedded Aramid Fiber Reinforced Polymer (AFRP) Reinforcement. Polymers, 2015, 7, 2535-2557.	4.5	25
53	Cyclic Stress-Strain Relationships of FRP Confined Concrete Members. Arabian Journal for Science and Engineering, 2015, 40, 363-379.	1.1	11
54	Seismic behavior of two exterior beam-column connections made of normal-strength concrete developed for precast construction. Engineering Structures, 2015, 99, 157-172.	5.3	85

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55	Full-Scale Shaking Table Tests on a Substandard RC Building Repaired and Strengthened with Post-Tensioned Metal Straps. <i>Journal of Earthquake Engineering</i> , 2014, 18, 187-213.	2.5	42
56	The Effect of Lap Splice Length on the Cyclic Lateral Load Behavior of RC Members with Low-Strength Concrete and Plain Bars. <i>Advances in Structural Engineering</i> , 2014, 17, 639-658.	2.4	31
57	The Effects of Loading Rate and Duration on the Axial Behavior of Low-Strength and Medium-Strength Noncircular Concrete Members Confined by Fiber-Reinforced Polymer Sheets. <i>Polymers</i> , 2014, 6, 1685-1704.	4.5	9
58	Characterization of the materials used in the multi-leaf masonry walls of monumental structures in Istanbul, Turkey. <i>Construction and Building Materials</i> , 2014, 64, 398-413.	7.2	24
59	Performance Based Rapid Seismic Assessment Method (PERA) for Reinforced Concrete Frame Buildings. <i>Advances in Structural Engineering</i> , 2014, 17, 439-459.	2.4	14
60	Rapid Seismic Assessment Procedures for the Turkish Building Stock. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 15-35.	0.2	4
61	Assessing Seismic Vulnerability of Unreinforced Masonry Walls Using Elasto-Plastic Damage Model. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 95-114.	0.2	3
62	Shake Table Tests on Deficient RC Buildings Strengthened Using Post-Tensioned Metal Straps. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 187-202.	0.2	5
63	Optimum Mix Design of Steel-Fibre-Reinforced Concrete Plates. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 2971-2983.	1.1	19
64	Behavior of Historical Unreinforced Brick Masonry Walls under Monotonic and Cyclic Compression. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 1993-2007.	1.1	17
65	Failures of structures during the October 23, 2011 Tabanlı (Van) and November 9, 2011 Edremit (Van) earthquakes in Turkey. <i>Engineering Failure Analysis</i> , 2013, 34, 606-628.	4.0	82
66	Precast fiber reinforced cementitious composites for seismic retrofit of deficient rc joints – A pilot study. <i>Engineering Structures</i> , 2013, 52, 192-206.	5.3	38
67	Effects of Reinforcement Corrosion on the Performance of RC Frame Buildings Subjected to Seismic Actions. <i>Journal of Performance of Constructed Facilities</i> , 2013, 27, 683-696.	2.0	29
68	Attempt for Seismic Retrofit of Existing Substandard RC Members under Reversed Cyclic Flexural Effects. <i>Journal of Composites for Construction</i> , 2012, 16, 286-299.	3.2	31
69	Estimation of flexural capacity of quadrilateral FRP-confined RC columns using combined artificial neural network. <i>Engineering Structures</i> , 2012, 42, 23-32.	5.3	17
70	Earthquakes, Existing Buildings and Seismic Design Codes in Turkey. <i>Arabian Journal for Science and Engineering</i> , 2012, 37, 365-380.	1.1	34
71	Behavior of FRP-Retrofitted Joints Built with Plain Bars and Low-Strength Concrete. <i>Journal of Composites for Construction</i> , 2011, 15, 312-326.	3.2	62
72	Characteristics of CFRP retrofitted hollow brick infill walls of reinforced concrete frames. <i>Construction and Building Materials</i> , 2011, 25, 4017-4024.	7.2	28

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73	Failures of masonry and concrete buildings during the March 8, 2010 Kocaeli and Düzce Earthquakes in Turkey. Engineering Failure Analysis, 2011, 18, 868-889.	4.0	82
74	Pullout Performance of Fully and Partially Bonded Retrofit Anchors in Low-Strength Concrete. ACI Structural Journal, 2011, 108, .	0.2	6
75	Axial Behavior of FRP Jacketed Extended Rectangular Members Constructed with Low Strength Concrete. , 2011, , 622-625.		0
76	An exploratory study on perceptions of seismic risk and mitigation in two districts of Istanbul. Disasters, 2010, 34, 71-92.	2.2	14
77	Material Characterization of the Historical Unreinforced Masonry Akaretler Row Houses in Istanbul. Journal of Materials in Civil Engineering, 2010, 22, 702-713.	2.9	13
78	Explosion Performance of a Ball Powder Production Facility. Journal of Performance of Constructed Facilities, 2010, 24, 326-336.	2.0	3
79	Effects of Loading Rate and Duration on Axial Behavior of Concrete Confined by Fiber-Reinforced Polymer Sheets. Journal of Composites for Construction, 2010, 14, 146-151.	3.2	17
80	Behavior of Deficient Joints with Plain Bars and Low-Strength Concrete. ACI Structural Journal, 2010, 107, .	0.2	13
81	Improved Infill Walls and Rehabilitation of Existing Low-Rise Buildings. Geotechnical, Geological and Earthquake Engineering, 2009, , 387-426.	0.2	5
82	Seismic Retrofit of Brittle and Low Strength RC Columns Using Fiber Reinforced Polymer and Cementitious Composites. Advances in Structural Engineering, 2009, 12, 325-347.	2.4	54
83	FRP Retrofit of Low and Medium Strength Circular and Rectangular Reinforced Concrete Columns. Journal of Materials in Civil Engineering, 2008, 20, 169-188.	2.9	296
84	SEISMIC RETROFIT OF INFILLED REINFORCED CONCRETE FRAMES WITH CFRP COMPOSITES. , 2006, , 285-300.		9
85	AXIAL BEHAVIOR OF RC COLUMNS RETROFITTED WITH FRP COMPOSITES. , 2006, , 301-316.		16
86	MECHANICAL BEHAVIOR AND OPTIMUM DESIGN OF SFRC PLATES. , 2006, , 199-205.		2
87	RETROFIT OF CONCRETE MEMBERS WITH EXTERNALLY BONDED PREFABRICATED SFRC JACKETS. , 2006, , 625-632.		1
88	Strengthening of RC columns with inadequate transverse reinforcement. , 2004, , 211-218.		1
89	Low strength concrete members externally confined with FRP sheets. Structural Engineering and Mechanics, 2004, 18, 167-194.	1.0	119
90	A trilinear stress-strain model for confined concrete. Structural Engineering and Mechanics, 2004, 18, 541-563.	1.0	13

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91	COMPRESSIVE BEHAVIOUR OF CARBON FIBRE COMPOSITE JACKETED CONCRETE WITH CIRCULAR AND NON-CIRCULAR CROSS-SECTIONS. Journal of Earthquake Engineering, 2003, 7, 381-406.	2.5	122
92	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 381.	2.5	19
93	PHOTOGRAMMETRICALLY MEASURED DEFORMATIONS OF FRP WRAPPED LOW STRENGTH CONCRETE. , 2003, , .		0
94	Behavior of damaged and undamaged concrete strengthened by carbon fiber composite sheets. Structural Engineering and Mechanics, 2002, 13, 75-90.	1.0	68
95	Rehabilitation of Corrosion-Damaged Substandard RC Columns Using FRP Sheets. Advanced Materials Research, 0, 639-640, 1096-1103.	0.3	14
96	Seismic Retrofitting Of the 19 <sup>TH</sup> Century Hirka-i Serif Mosque Using Textile Reinforced Mortar. International Journal of Architectural Heritage, 0, , 1-24.	3.1	1