

Mustafa Ã-zakÃ§a

List of Publications by Year in descending order

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65
papers

859
citations

516561

16
h-index

526166

27
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68
all docs

68
docs citations

68
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental analysis of temperature gradients in concrete box-girders. <i>Construction and Building Materials</i> , 2016, 106, 523-532.	3.2	84
2	Developing geopolymer concrete by using cold-bonded fly ash aggregate, nano-silica, and steel fiber. <i>Construction and Building Materials</i> , 2018, 180, 12-22.	3.2	70
3	Experimental and finite element investigation of temperature distributions in concrete-encased steel girders. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2042.	1.9	57
4	Flexural response of hollow high strength concrete beams considering different size reductions. <i>Structures</i> , 2020, 23, 69-86.	1.7	53
5	Experimental Investigation on the Effect of Steel Fibers on the Flexural Behavior and Ductility of High-Strength Concrete Hollow Beams. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-13.	0.4	46
6	Free vibration analysis and optimisation of axisymmetric plates and shells. <i>Finite element formulation. Computers and Structures</i> , 1994, 52, 1181-1197.	2.4	42
7	Residual strength of high strength concentric column-SFRC flat plate exposed to high temperatures. <i>Construction and Building Materials</i> , 2017, 154, 204-218.	3.2	35
8	Review of concrete flat plate-column assemblies under fire conditions. <i>Fire Safety Journal</i> , 2017, 93, 39-52.	1.4	25
9	Buckling analysis and shape optimization of elastic variable thickness circular and annular plates. <i>Finite element formulation. Engineering Structures</i> , 2003, 25, 181-192.	2.6	24
10	Finite element thermo-mechanical analysis of concrete box-girders. <i>Structures</i> , 2021, 33, 2424-2444.	1.7	24
11	Adaptive analysis of thin shells using facet elements. <i>International Journal for Numerical Methods in Engineering</i> , 1991, 32, 1283-1301.	1.5	22
12	Free vibration analysis and shape optimization of variable thickness plates, prismatic folded plates and curved shells. <i>Journal of Sound and Vibration</i> , 1995, 181, 567-581.	2.1	21
13	Residual Repeated Impact Strength of Concrete Exposed to Elevated Temperatures. <i>Crystals</i> , 2021, 11, 941.	1.0	21
14	Flexural Strengthening and Rehabilitation of Reinforced Concrete Beam Using BFRP Composites: Finite Element Approach. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-17.	0.4	20
15	Free vibration analysis and shape optimization of variable thickness plates, prismatic folded plates and curved shells. <i>Journal of Sound and Vibration</i> , 1995, 181, 553-566.	2.1	19
16	An integrated approach to structural shape optimization of linearly elastic structures. Part I: General methodology. <i>Computing Systems in Engineering: an International Journal</i> , 1991, 2, 27-39.	0.5	17
17	A study of boundary layers in plates using Mindlin-Reissner and 3-D elements. <i>International Journal for Numerical Methods in Engineering</i> , 1992, 33, 1305-1320.	1.5	17
18	Residual Impact Performance of ECC Subjected to Sub-High Temperatures. <i>Materials</i> , 2022, 15, 454.	1.3	17

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19	An integrated approach to structural shape optimization of linearly elastic structures. Part II: Shape definition and adaptivity. Computing Systems in Engineering: an International Journal, 1991, 2, 41-56.	0.5	15
20	Shape optimization of axisymmetric structures with adaptive finite element procedures. Structural Optimization, 1993, 5, 256-264.	0.7	14
21	Tailoring Static Strength Performance of Metallic Stiffened Panels by Selective Local Sub-Stiffening. , 2006, , .		14
22	Mesh generation with adaptive finite element analysis. Advances in Engineering Software and Workstations, 1991, 13, 238-262.	0.2	13
23	Comparison of three-dimensional solid elements in the analysis of plates. Computers and Structures, 1992, 42, 953-968.	2.4	13
24	Buckling analysis and shape optimization of elastic variable thickness circular and annular platesâ€™II. Shape optimization. Engineering Structures, 2003, 25, 193-199.	2.6	13
25	Temperature Records in Concrete Box-Girder Segment Subjected to Solar Radiation and Air Temperature Changes. IOP Conference Series: Materials Science and Engineering, 2020, 870, 012074.	0.3	13
26	Optimum Shapes Of Vibrating Axisymmetric Plates And Shells. Journal of Sound and Vibration, 1993, 167, 511-528.	2.1	12
27	Temperatures and gradients in concrete Bridges: Experimental, finite element analysis and design. Structures, 2022, 37, 960-976.	1.7	12
28	Mechanical and Impact Properties of Engineered Cementitious Composites Reinforced with PP Fibers at Elevated Temperatures. Fire, 2022, 5, 3.	1.2	12
29	Free vibration analysis and shape optimization of box-girder bridges in straight and curved planform. Engineering Structures, 2002, 24, 625-637.	2.6	11
30	Flexural behavior of ECC hollow beams incorporating different synthetic fibers. Frontiers of Structural and Civil Engineering, 2021, 15, 399-411.	1.2	11
31	The influence of assembly friction stir weld location on wing panel static strength. Thin-Walled Structures, 2014, 76, 56-64.	2.7	10
32	Experimental and finite element parametric investigations of the thermal behavior of CBGB. Steel and Composite Structures, 2016, 20, 813-832.	1.3	10
33	Free vibration analysis and optimisation of axisymmetric plates and shellsâ€™II. Shape optimisation. Computers and Structures, 1994, 52, 1199-1211.	2.4	9
34	Free vibration analysis and shape optimization of prismatic folded plates and shells with circular curved planform. International Journal for Numerical Methods in Engineering, 1994, 37, 1713-1739.	1.5	9
35	STRUCTURAL SHAPE OPTIMIZATION OF VIBRATING SHELLS AND FOLDED PLATES USING TWOâ€™NODED FINITE STRIPS. Engineering Computations, 1993, 10, 139-157.	0.7	8
36	Buckling optimization of variable thickness prismatic folded plates. Thin-Walled Structures, 2003, 41, 711-730.	2.7	6

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37	Analysis and Optimization of Prismatic and Axisymmetric Shell Structures. , 2003, , .		5
38	Structural Analysis and Optimization of Bells Using Finite Elements. Journal of New Music Research, 2004, 33, 61-69.	0.6	5
39	Optimization of arches using genetic algorithm. Computational Optimization and Applications, 2008, 41, 377-394.	0.9	5
40	3D finite-element analysis of shear connectors with partial interaction. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2016, 169, 96-107.	0.4	4
41	Structural optimisation of axisymmetric and prismatic shells and folded plates. Computing Systems in Engineering: an International Journal, 1994, 5, 179-191.	0.5	3
42	Buckling/post-buckling strength of friction stir welded aircraft stiffened panels. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 178-192.	0.7	3
43	Flexural behavior of concrete beams reinforced with different types of fibers. Computers and Concrete, 2016, 18, 999-1018.	0.7	3
44	Comparison of error estimation methods and adaptivity for plane stress/strain problems. Structural Engineering and Mechanics, 2003, 15, 579-608.	1.0	3
45	Structural Analysis of Arches in Plane with a Family of Simple and Accurate Curved Beam Elements Based on Mindlin-Reissner Model. Journal of Mechanics, 2011, 27, 129-138.	0.7	2
46	Statistical evaluation of vertical and lateral temperature gradients in concrete box-girders. Journal of Physics: Conference Series, 2021, 1895, 012068.	0.3	2
47	Impact of finite element idealisation on the prediction of welded fuselage stiffened panel buckling. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 259-279.	0.7	1
48	Suggestion models of temperature differentials for the composite box girder bridge. IOP Conference Series: Materials Science and Engineering, 2020, 870, 012068.	0.3	1
49	3D FE modeling considering shear connectors representation and number in CBGB. Steel and Composite Structures, 2014, 17, 237-252.	1.3	1
50	Ä°NÄZAAAT MÄœHENDÄ°SLÄ°ÄžÄ°NDE HAREKETLÄ° MEMBRAN YAPILAR Ä°ÄžÄ°N TASARIM METODOLOJÄ°SÄ°NÄ°N GELÄ°ÄžTÄ°RÄ°LMÄ° the Faculty of Engineering and Architecture of Gazi University, 2016, 31, .	0.3	1
51	EFFECT OF NUMBER AND DISTRIBUTION OF SHEAR CONNECTORS ON THE COMPOSITE BOX-GIRDER BRIDGE UNDER ENVIRONMENTAL THERMAL CONDITIONS. Journal of Engineering and Sustainable Development, 2019, 23, 35-54.	0.3	1
52	Analysis and optimal design of structures with adaptivity. , 2018, , .		0
53	Buckling Analysis and Optimization of Plates and Shells. , 2003, , 381-428.		0
54	Structural Shape Definition and Automatic Mesh Generation. , 2003, , 27-58.		0

#	ARTICLE	IF	CITATIONS
55	Basic Finite Strip Formulation for Prismatic Shells. , 2003, , 141-200.		0
56	Basic Finite Element Formulation for Vibrating Axisymmetric Shells. , 2003, , 245-278.		0
57	Structural Optimization of Shells of Revolution and Prismatic Shells. , 2003, , 201-242.		0
58	Structural Shape Optimization of Vibrating Axisymmetric and Prismatic Shells. , 2003, , 325-377.		0
59	Finite Strip Formulation for Vibrating Prismatic Shells. , 2003, , 279-324.		0
60	Structural Optimization Methods and Algorithms. , 2003, , 59-123.		0
61	Basic Dynamic Analysis of Plates, Solids of Revolution and Finite Prism Type Structures. , 2003, , 429-474.		0
62	3D FE analysis of shear connectors with partial interaction. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2015, , 1-12.	0.4	0
63	Nonlinear FE modelling and parametric study on flexural performance of ECC beams. Structural Engineering and Mechanics, 2017, 62, 21-31.	1.0	0
64	A COMPUTATIONAL TOOL BASED ON GENETIC ALGORITHM FOR DETERMINING OPTIMUM SHAPES OF VIBRATING PLANAR AND SPACE TRUSSES. , 2006, , 219-224.		0
65	Flexural performance of RC beams externally strengthened with a single-layer of basalt fiber reinforced polymer sheets. Composites and Advanced Materials, 2022, 31, 263498332211024.	0.5	0