Cem Topkaya

List of Publications by Year
in descending order

69 papers	1,043 citations	430874 18 h-index	501196 28 g-index
69 all docs	69 docs citations	69 times ranked	535 citing authors

#	Article	IF	Citations
1	A review of research on steel eccentrically braced frames. Journal of Constructional Steel Research, 2017, 128, 53-73.	3.9	124
2	An experimental study on channel type shear connectors. Journal of Constructional Steel Research, 2012, 74, 108-117.	3.9	55
3	A finite element parametric study on block shear failure of steel tension members. Journal of Constructional Steel Research, 2004, 60, 1615-1635.	3.9	51
4	Composite Shear Stud Strength at Early Concrete Ages. Journal of Structural Engineering, 2004, 130, 952-960.	3.4	40
5	Block shear failure of gusset plates with welded connections. Engineering Structures, 2007, 29, 11-20.	5.3	34
6	Seismic behavior of concentrically braced frames designed to AISC341 and EC8 provisions. Journal of Constructional Steel Research, 2017, 133, 383-404.	3.9	33
7	Development of detachable replaceable links for eccentrically braced frames. Earthquake Engineering and Structural Dynamics, 2019, 48, 1134-1155.	4.4	32
8	Replaceable links with gusseted brace joints for eccentrically braced frames. Soil Dynamics and Earthquake Engineering, 2018, 115, 305-318.	3.8	31
9	Behavior of curved steel trapezoidal box-girders during construction. Engineering Structures, 2004, 26, 721-733.	5.3	30
10	Replaceable links with direct brace attachments for eccentrically braced frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 2121-2139.	4.4	28
11	Natural periods of steel plate shear wall systems. Journal of Constructional Steel Research, 2009, 65, 542-551.	3.9	26
12	An experimental study on steelâ€encased bucklingâ€restrained brace hysteretic dampers. Earthquake Engineering and Structural Dynamics, 2010, 39, 561-581.	4.4	25
13	Extended end-plate connections for replaceable shear links. Engineering Structures, 2021, 240, 112385.	5.3	25
14	Behavior of steelâ€"concrete partially composite beams with channel type shear connectors. Journal of Constructional Steel Research, 2014, 97, 69-78.	3.9	24
15	Displacement amplification factors for steel eccentrically braced frames. Earthquake Engineering and Structural Dynamics, 2015, 44, 167-184.	4.4	23
16	A numerical study on response modification, overstrength, and displacement amplification factors for steel plate shear wall systems. Earthquake Engineering and Structural Dynamics, 2009, 38, 497-516.	4.4	22
17	Mid-spliced end-plated replaceable links for eccentrically braced frames. Engineering Structures, 2021, 237, 112225.	5.3	22
18	Evaluation of seismic response factors for BRBFs using FEMA P695 methodology. Journal of Constructional Steel Research, 2018, 151, 41-57.	3.9	20

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19	Design overstrength of steel eccentrically braced frames. International Journal of Steel Structures, 2013, 13, 529-545.	1.3	19
20	Development of welded overlap core steel encased buckling-restrained braces. Journal of Constructional Steel Research, 2016, 127, 151-164.	3.9	18
21	Evaluation of Seismic Response Factors for Eccentrically Braced Frames Using FEMA P695 Methodology. Earthquake Spectra, 2016, 32, 303-321.	3.1	18
22	Lateral stiffness of steel plate shear wall systems. Thin-Walled Structures, 2009, 47, 827-835.	5.3	17
23	Low-Cycle Fatigue Testing of Shear Links and Calibration of a Damage Law. Journal of Structural Engineering, 2018, 144, .	3.4	17
24	Finite element modeling of block shear failure in coped steel beams. Journal of Constructional Steel Research, 2007, 63, 544-553.	3.9	16
25	Strength and stiffness of floor trusses fabricated from cold-formed steel lipped channels. Engineering Structures, 2019, 181, 437-457.	5.3	16
26	The plastic and the ultimate resistance of four-bolt extended end-plate connections. Journal of Constructional Steel Research, 2021, 181, 106614.	3.9	15
27	A comparative study of AISC-360 and EC3 strength limit states. International Journal of Steel Structures, 2011, 11, 13-27.	1.3	14
28	Panel zone deformation demands in steel moment resisting frames. Journal of Constructional Steel Research, 2015, 110, 65-75.	3.9	13
29	Test Method for Determining the Shear Modulus of Elastomeric Bearings. Journal of Structural Engineering, 2002, 128, 797-805.	3.4	12
30	Ring Beam Stiffness Criterion for Column-Supported Metal Silos. Journal of Engineering Mechanics - ASCE, 2011, 137, 846-853.	2.9	12
31	Nonsymmetrical loading protocols for shear links in eccentrically braced frames. Earthquake Engineering and Structural Dynamics, 2020, 49, 74-94.	4.4	12
32	Fundamental periods of steel concentrically braced frames designed to Eurocode 8. Earthquake Engineering and Structural Dynamics, 2013, 42, 1415-1433.	4.4	11
33	Dynamic buckling of braces in concentrically braced frames. Earthquake Engineering and Structural Dynamics, 2018, 47, 613-633.	4.4	11
34	Ideal Location of Intermediate Ring Stiffeners on Discretely Supported Cylindrical Shells. Journal of Engineering Mechanics - ASCE, 2014, 140, .	2.9	10
35	Performance comparison of BRBFs designed using different response modification factors. Engineering Structures, 2020, 225, 111281.	5.3	10
36	Stability of beams in steel eccentrically braced frames. Journal of Constructional Steel Research, 2014, 96, 14-25.	3.9	9

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37	Stress resultants for wind girders in open-top cylindrical steel tanks. Engineering Structures, 2019, 196, 109347.	5.3	9
38	Development of computational software for analysis of curved girders under construction loads. Computers and Structures, 2003, 81, 2087-2098.	4.4	8
39	Lateral buckling of overhanging crane trolley monorails. Engineering Structures, 2006, 28, 1162-1172.	5.3	8
40	A numerical study on special truss moment frames with Vierendeel openings. Journal of Constructional Steel Research, 2011, 67, 667-677.	3.9	8
41	Buckling of cylindrical metal shells on discretely supported ring beams. Thin-Walled Structures, 2015, 93, 22-35.	5.3	8
42	Testing and analysis of different hold down devices for CFS construction. Journal of Constructional Steel Research, 2018, 145, 97-115.	3.9	8
43	Seismic performance of eccentrically braced frames designed to AISC341 and EC8 specifications. Structures, 2021, 29, 339-359.	3.6	8
44	Analysis of specimen size effects in inclined compression test on laminated elastomeric bearings. Engineering Structures, 2004, 26, 1071-1080.	5.3	7
45	A numerical study on linear bifurcation web buckling of steel I-beams in the sidesway mode. Engineering Structures, 2006, 28, 1028-1037.	5.3	7
46	Strength and stiffness requirements for intermediate ring stiffeners on discretely supported cylindrical shells. Thin-Walled Structures, 2015, 96, 64-74.	5.3	7
47	An energy dissipating hold down device for cold-formed steel structures. Journal of Constructional Steel Research, 2020, 166, 105913.	3.9	7
48	Behavior of channel connectors in steel-concrete composite beams with precast slabs. Journal of Constructional Steel Research, 2020, 172, 106167.	3.9	7
49	Seismic performance evaluation of eccentrically braced frames with long links using FEMA P695 methodology. Engineering Structures, 2022, 258, 114104.	5.3	7
50	Fundamental periods of steel eccentrically braced frames. Structural Design of Tall and Special Buildings, 2015, 24, 123-140.	1.9	6
51	Experimental and numerical analysis of cold-formed steel floor trusses with concrete filled compression chord. Engineering Structures, 2021, 234, 111813.	5.3	6
52	Evaluation of Top Flange Bracing Systems for Curved Box Girders. Journal of Bridge Engineering, 2005, 10, 693-703.	2.9	5
53	Solver and Shell Element Performances for Curved Bridge Analysis. Journal of Bridge Engineering, 2008, 13, 418-424.	2.9	4
54	A numerical study on response factors for steel wallâ€“frame systems. Earthquake Engineering and Structural Dynamics, 2010, 39, 1611-1630.	4.4	4

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55	A numerical study on local buckling and energy dissipation of CHS seismic bracing. Thin-Walled Structures, 2011, 49, 984-996.	5.3	4
56	Requirements for intermediate ring stiffeners placed below the ideal location on discretely supported shells. Thin-Walled Structures, 2017, 115, 21-33.	5.3	4
57	Analysis of silo supporting ring beams resting on discrete supports. Thin-Walled Structures, 2019, 135, 285-296.	5.3	4
58	Stability of laterally unsupported shear links in eccentrically braced frames. Earthquake Engineering and Structural Dynamics, 2022, 51, 832-852.	4.4	3
59	Development of a loading protocol for long links in eccentrically braced frames. Journal of Constructional Steel Research, 2022, 193, 107278.	3.9	3
60	Stiffness requirements for wind girders in open-top cylindrical steel tanks. Thin-Walled Structures, 2022, 176, 109353.	5.3	3
61	Effects of cyclic strain hardening on performance of eccentrically braced frames. Journal of Constructional Steel Research, 2021, 187, 106948.	3.9	2
62	Application of ring beam stiffness criterion for discretely supported shells under global shear and bending. Advances in Structural Engineering, 2018, 21, 2404-2415.	2.4	1
63	04.12: Analysis of silo supporting ring beams: Resting on discrete supports. Ce/Papers, 2017, 1, 918-927.	0.3	0
64	11.48: An experimental study on welded overlap core: Steel encased bucklingâ€restrained braces. Ce/Papers, 2017, 1, 3219-3228.	0.3	0
65	Splice Connection Details for Eccentrically Braced Frame Replaceable Links. Ce/Papers, 2019, 3, 463-468.	0.3	0
66	Effect of Support Width on Stress Resultants in Ring Beams Interacting with Silo Shells. Ce/Papers, 2019, 3, 433-438.	0.3	0
67	Experimental Validation of Detachable Links for Eccentrically Braced Frames. Ce/Papers, 2021, 4, 1874-1880.	0.3	0
68	Stability of Openâ€Top Cylindrical Steel Tanks with Primary Stiffening Ring under Wind Loading. Ce/Papers, 2021, 4, 1781-1788.	0.3	0
69	The response of tall buildings to far-field earthquakes and the case of a 49-storey steel building. International Journal of Earthquake and Impact Engineering, 2020, 3, 15.	0.3	0