FrantiÅ¡ek Wald

List of Publications by Year
in descending order

69 papers	730 citations	759233 12 h-index	610901 24 g-index
72 all docs	72 docs citations	72 times ranked	463 citing authors

#	Article	IF	Citations
1	Shear resistance of sandwich panel connection at elevated temperature. Journal of Structural Fire Engineering, 2022, 13, 162-170.	0.8	2
2	Emissivity of hot-dip galvanized surfaces in future development of EN 1993-1-2. Journal of Structural Fire Engineering, 2022, 13, 535-557.	0.8	6
3	Thermal Model for Timber Fire Exposure with Moving Boundary. Materials, 2021, 14, 574.	2.9	1
4	Advanced Design of Block Shear Failure. Metals, 2021, 11, 1088.	2.3	0
5	Strain Design Limit for Hollow Section Joints. Ce/Papers, 2021, 4, 2488-2494.	0.3	1
6	Numerical modelling of fire test with timber fire protection. Journal of Structural Fire Engineering, 2021, ahead-of-print, .	0.8	1
7	Fire response model of the steel fibre reinforced concrete filled tubular column. Journal of Constructional Steel Research, 2021, 186, 106884.	3.9	10
8	Behaviour of seismically damaged extended stiffened end-plate joints at elevated temperature. Engineering Structures, 2021, 247, 113193.	5.3	10
9	Lateral-torsional buckling of class 4 section uniform and web tapered beams at elevated temperature. Thin-Walled Structures, 2020, 146, 106458.	5.3	17
10	Timber beam in virtual furnace. Journal of Structural Fire Engineering, 2020, 11, 437-446.	0.8	2
11	Temperature analysis of steel structures protected by intumescent paint with steel claddings in fire. Fire and Materials, 2020, 44, 897-908.	2.0	4
12	Component based finite element design of steel joints. Civil Engineering Design, 2020, 2, 78-89.	1.9	1
13	Multiâ€Level Joints and Element Design. Ce/Papers, 2019, 3, 379-384.	0.3	2
14	Numerical investigation of slender reinforced concrete and steel-concrete composite columns at normal and high temperatures using sectional analysis and moment-curvature approach. Engineering Structures, 2019, 190, 285-305.	5.3	15
15	Design finite element model of a bolted T-stub connection component. Journal of Constructional Steel Research, 2019, 157, 198-206.	3.9	37
16	Linked simulation for fire-exposed elements using CFD and thermo-mechanical models. Advances in Engineering Software, 2019, 131, 12-22.	3.8	11
17	Timber steel-fibre-reinforced concrete floor slabs subjected to fire. European Journal of Wood and Wood Products, 2018, 76, 201-212.	2.9	5
18	Holistic approach to sustainability of bridges. Steel Construction, 2018, 11, 179-183.	0.8	2

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19	10.02: Numerical simulation of fire-resistance test of steel beam. Ce/Papers, 2017, 1, 2518-2525.	0.3	2
20	Experimental investigation on SFRC behaviour under elevated temperature. Journal of Structural Fire Engineering, 2017, 8, 287-299.	0.8	7
21	00.05: Validation and verification in design of structural steel connections. Ce/Papers, 2017, 1, 143-152.	0.3	0
22	Design of haunches in structural steel joints. Journal of Civil Engineering and Management, 2017, 23, 765-772.	3.5	8
23	03.17: Design of haunches in structural steel joints. Ce/Papers, 2017, 1, 639-648.	0.3	0
24	10.29: The thermal response of corrugated web beams subjected to fire. Ce/Papers, 2017, 1, 2765-2770.	0.3	0
25	Application of fire and evacuation models in evaluation of fire safety in railway tunnels. IOP Conference Series: Materials Science and Engineering, 2017, 236, 012080.	0.6	2
26	Flexural stiffness of the composite steel and fibre-reinforced concrete circular hollow section column. IOP Conference Series: Materials Science and Engineering, 2017, 246, 012021.	0.6	0
27	Heat transfer in hybrid fibre reinforced concrete-steel composite column exposed to a gas-fired radiant heater. IOP Conference Series: Materials Science and Engineering, 2017, 246, 012050.	0.6	1
28	EXPERIMENTAL METHOD ON INVESTIGATION OF FIBRE REINFORCED CONCRETE AT ELEVATED TEMPERATURES. Acta Polytechnica, 2016, 56, 258-264.	0.6	7
29	VERIFICATION OF NUMERICAL MODEL OF FIRE AND SMOKE DEVELOPMENT IN RAILWAY TUNNEL. Applications of Structural Fire Engineering, 2016, , .	0.3	1
30	CONSTITUTIVE MODEL OF STEEL FIBRE REINFORCED CONCRETE SUBJECTED TO HIGH TEMPERATURES. Acta Polytechnica, 2016, 56, 417-424.	0.6	8
31	TO TESTING OF STEEL FIBRE REINFORCED CONCRETE AT ELEVATED TEMPERATURE. Applications of Structural Fire Engineering, 2016, , .	0.3	1
32	Beams with corrugated web at elevated temperature, analytical and numerical models for heat transfer. Fire Safety Journal, 2016, 86, 83-94.	3.1	5
33	An analytical method to calculate temperatures of components of reverse channel connection to concrete filled steel section under fire conditions. Fire Safety Journal, 2016, 82, 115-130.	3.1	5
34	Advanced prediction methods in structural fire safety engineering. , 2016, , .		0
35	Beams with corrugated web at elevated temperature, experimental results. Thin-Walled Structures, 2016, 98, 19-28.	5.3	9
36	Experiments of Class 4 open section beams at elevated temperature. Thin-Walled Structures, 2016, 98, 2-18.	5.3	36

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37	VERIFICATION AND VALIDATION OF NUMERICAL MODEL OF FIRE AND SMOKE DEVELOPMENT IN RAILWAY TUNNEL. Acta Polytechnica, 2016, 56, 432-439.	0.6	2
38	Benchmark for numerical analysis of steel and composite floors exposed to fire using a general purpose FEM code. Journal of Applied Engineering Science, 2016, 14, 275-284.	0.9	6
39	Timber Steel Fiberâ€"Reinforced Concrete Floor Slabs in Fire: Experimental and Numerical Modeling. Journal of Structural Engineering, 2015, 141, 04014214.	3.4	8
40	Fire Test of Timber-fibre Concrete Composite Floor. Journal of Structural Fire Engineering, 2015, 6, 147-154.	0.8	1
41	The Effect of Transient Heat Transfer Analysis on Corrugated Web Beams. , 2015, , .		0
42	Slender Compressed Plate in Component Based Finite Element Model. IOP Conference Series: Materials Science and Engineering, 2015, 96, 012050.	0.6	3
43	Reduction of Connection Resistance During VeselÃ-Fire Tests. Journal of Structural Fire Engineering, 2015, 6, 21-28.	0.8	3
44	Analytical model of composite floors with steel fibre reinforced concrete slab subjected to fire. Journal of Civil Engineering and Management, 2015, 23, 204-212.	3.5	1
45	Influence of Zinc Coating to a Temperature of Steel Members in Fire. Journal of Structural Fire Engineering, 2015, 6, 141-146.	0.8	6
46	Temperatures and thermal boundary conditions in reverse channel connections to concrete filled steel sections during standard and natural fire tests. Fire Safety Journal, 2015, 78, 55-70.	3.1	5
47	Temperature heterogeneity during travelling fire on experimental building. Advances in Engineering Software, 2013, 62-63, 119-130.	3.8	36
48	A Note From the Guest Editor. Journal of Structural Fire Engineering, 2013, 4, i-ii.	0.8	0
49	Experiments on membrane action of composite floors with steel fibre reinforced concrete slab exposed to fire. Fire Safety Journal, 2013, 59, 111-121.	3.1	36
50	Fire Resistance of Cast Iron Columns. Journal of Structural Fire Engineering, 2013, 4, 95-102.	0.8	1
51	Temperature of a partially embedded connection subjected to fire. Fire Safety Journal, 2012, 54, 121-129.	3.1	2
52	Membrane Action of Composite Fibre Concrete Slab in Fire. Procedia Engineering, 2012, 40, 498-503.	1.2	8
53	Behaviour of steel-to-concrete joints - moment resisting joint of a composite beam to reinforced concrete wall. Steel Construction, 2011, 4, 161-165.	0.8	3
54	Behaviour of column web component of steel beam-to-column joints at elevated temperatures. Journal of Constructional Steel Research, 2011, 67, 1890-1899.	3.9	7

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55	Column Web Panel at Elevated Temperature. Fire Technology, 2010, 46, 37-47.	3.0	2
56	Horizontal forces in steel structures tested in fire. Journal of Constructional Steel Research, 2009, 65, 1896-1903.	3.9	16
57	Temperatures during fire tests on structure and its prediction according to Eurocodes. Fire Safety Journal, 2009, 44, 135-146.	3.1	24
58	Temperature of connections during fire on steel framed building. International Journal of Steel Structures, 2009, 9, 47-55.	1.3	6
59	Design of corrugated sheets exposed to fire. Steel and Composite Structures, 2008, 8, 231-242.	1.3	3
60	Experimental behaviour of a steel structure under natural fire. Fire Safety Journal, 2006, 41, 509-522.	3.1	201
61	Temperature distribution in a full-scale steel framed building subject to a natural fire. Steel and Composite Structures, 2006, 6, 159-182.	1.3	20
62	Stresses in steel columns under natural fire. , 2005, , 259-266.		0
63	Stiffness of cover plate connections with slotted holes. Journal of Constructional Steel Research, 2004, 60, 621-634.	3.9	7
64	Embedded steel column bases. Journal of Constructional Steel Research, 2000, 56, 253-270.	3.9	27
65	Embedded steel column bases. Journal of Constructional Steel Research, 2000, 56, 271-286.	3.9	15
66	Stiffness design of column bases. Journal of Constructional Steel Research, 1998, 46, 245.	3.9	4
67	Discussion of â€œ Semibifurcation and Bifurcation Analysis of Flexibly Connected Steel Frames â€•by W. M. G. Ho and S. L. Chan (August, 1991, Vol. 17, No. 8). Journal of Structural Engineering, 1993, 119, 3104-3105.	3.4	0
68	Sensitivity of semi-rigid frames to initial imperfections. Journal of Constructional Steel Research, 1991, 18, 309-316.	3.9	0
69	Advanced procedures for design of bolted connections. IOP Conference Series: Materials Science and Engineering, 0, 419, 012044.	0.6	2