Milan Veljkovic

List of Publications by Year
in descending order

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91 papers	1,642 citations	331670 21 h-index	315739 38 g-index
93 all docs	93 docs citations	93 times ranked	1076 citing authors

#	Article	IF	Citations
1	Bolted shear connectors vs. headed studs behaviour in push-out tests. Journal of Constructional Steel Research, 2013, 88, 134-149.	3.9	323
2	A comparison of the fatigue behavior between S355 and S690 steel grades. Journal of Constructional Steel Research, 2012, 79, 140-150.	3.9	150
3	Three-dimensional fatigue crack propagation simulation using extended finite element methods for steel grades S355 and S690 considering mean stress effects. Engineering Structures, 2021, 227, 111414.	5.3	71
4	Piezo-impedance transducers for residual fatigue life assessment of bolted steel joints. Structural Health Monitoring, 2012, 11, 733-750.	7.5	56
5	Numerical assessment of T-stub component subjected to impact loading. Engineering Structures, 2016, 106, 450-460.	5.3	51
6	Light steel framing for residential buildings. Thin-Walled Structures, 2006, 44, 1272-1279.	5.3	48
7	Residual stress effects on fatigue crack growth rate of mild steel S355 exposed to air and seawater environments. Materials and Design, 2020, 193, 108732.	7.0	44
8	Full-scale experimental and numerical studies on compartment fire under low ambient temperature. Building and Environment, 2012, 51, 255-262.	6.9	43
9	Fatigue crack initiation prediction using phantom nodes-based extended finite element method for S355 and S690 steel grades. Engineering Fracture Mechanics, 2019, 214, 164-176.	4.3	38
10	Ductile damage model calibration for high-strength structural steels. Construction and Building Materials, 2020, 263, 120632.	7.2	37
11	Design of slip resistant lap joints with long open slotted holes. Journal of Constructional Steel Research, 2013, 82, 223-233.	3.9	34
12	A design model for stainless steel box columns in fire. Journal of Constructional Steel Research, 2008, 64, 1294-1301.	3.9	33
13	Assessment of design mechanical parameters and partial safety factors for Wire-and-Arc Additive Manufactured stainless steel. Engineering Structures, 2020, 225, 111314.	5.3	31
14	Connections in towers for wind converters, part I: Evaluation of down-scaled experiments. Journal of Constructional Steel Research, 2015, 115, 445-457.	3.9	29
15	Fatigue resistance curves for single and double shear riveted joints from old portuguese metallic bridges. Engineering Failure Analysis, 2019, 96, 255-273.	4.0	28
16	Elastic behaviour of a tapered steel-concrete composite beam optimized for reuse. Engineering Structures, 2019, 183, 366-374.	5.3	25
17	Comparative life cycle assessment of tubular wind towers and foundations â€“ Part 1: Structural design. Engineering Structures, 2014, 74, 283-291.	5.3	23
18	Resistance of cold-formed high strength steel circular and polygonal sections â€” Part 1: Experimental investigations. Journal of Constructional Steel Research, 2016, 120, 245-257.	3.9	23

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19	Probabilistic strain-fatigue life performance based on stochastic analysis of structural and WAAM-stainless steels. Engineering Failure Analysis, 2021, 127, 105495.	4.0	23
20	Numerical study of a steel sub-frame in fire. Computers and Structures, 2008, 86, 1619-1632.	4.4	21
21	Friction connection in tubular towers for a wind turbine. Stahlbau, 2010, 79, 660-668.	0.1	21
22	Mechanical characterization of a unidirectional pultruded composite lamina using micromechanics and numerical homogenization. Construction and Building Materials, 2019, 216, 101-118.	7.2	21
23	Friction connection vs. ring flange connection in steel towers for wind converters. Engineering Structures, 2015, 98, 151-162.	5.3	19
24	Reliability of Fatigue Strength Curves for Riveted Connections Using Normal and Weibull Distribution Functions. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, .	1.7	19
25	Influence of load arrangement on composite slab behaviour and recommendations for design. Journal of Constructional Steel Research, 1998, 45, 149-178.	3.9	18
26	Review of plate buckling rules in EN 1993-1-5. Steel Construction, 2009, 2, 228-234.	0.8	18
27	Connections in towers for wind converters, Part II: The friction connection behaviour. Journal of Constructional Steel Research, 2015, 115, 458-466.	3.9	18
28	Measurement and calculation of adiabatic surface temperature in a full-scale compartment fire experiment. Journal of Fire Sciences, 2013, 31, 35-50.	2.0	17
29	Evaluation of high strength steels fracture based on uniaxial stress-strain curves. Engineering Failure Analysis, 2021, 120, 105025.	4.0	17
30	Monitoring of a Swedish Integral Abutment Bridge. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2011, 21, 175-180.	0.8	16
31	Large Scale Test on a Steel Column Exposed to Localized Fire. Journal of Structural Fire Engineering, 2014, 5, 147-160.	0.8	16
32	Experiments and numerical simulation of wire and arc additive manufactured steel materials. Structures, 2021, 34, 1393-1402.	3.6	16
33	Thin-walled steel columns with partially closed cross-section: Tests and computer simulations. Journal of Constructional Steel Research, 2008, 64, 816-821.	3.9	15
34	FE validation of pushâ€out tests. Steel Construction, 2017, 10, 135-144.	0.8	15
35	Computational homogenization simulation on steel reinforced resin used in the injected bolted connections. Composite Structures, 2019, 210, 942-957.	5.8	14
36	Fracture simulation of a demountable steel-concrete bolted connector in push-out tests. Engineering Structures, 2021, 239, 112305.	5.3	14

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37	Comparative life cycle assessment of tubular wind towers and foundations â€“ Part 2: Life cycle analysis. Engineering Structures, 2014, 74, 292-299.	5.3	13
38	Structural monitoring of a wind turbine steel tower - Part I: system description and calibration. Wind and Structures, an International Journal, 2012, 15, 285-299.	0.8	13
39	Fatigue crack propagation simulation of orthotropic bridge deck based on extended finite element method. Procedia Structural Integrity, 2019, 22, 283-290.	0.8	12
40	Ductile fracture locus identification using mesoscale critical equivalent plastic strain. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1292-1304.	3.4	12
41	Fracture parameters calibration and validation for the high strength steel based on the mesoscale failure index. Theoretical and Applied Fracture Mechanics, 2021, 112, 102929.	4.7	12
42	Use of Duplex Stainless Steel in Economic Design of a Pressure Vessel. Journal of Pressure Vessel Technology, Transactions of the ASME, 2007, 129, 155-161.	0.6	11
43	New Lattice-Tubular Tower for Onshore WEC â€“ Part 1: Structural Optimization. Procedia Engineering, 2017, 199, 3236-3241.	1.2	11
44	Non-linear hybrid homogenization method for steel-reinforced resin. Construction and Building Materials, 2018, 182, 324-333.	7.2	11
45	Steel plated structures. Structural Control and Health Monitoring, 2001, 3, 13-27.	0.7	10
46	Experimental behaviour of the reverse channel joint component at elevated and ambient temperatures. International Journal of Steel Structures, 2013, 13, 459-472.	1.3	10
47	Alternative steel lattice structures for wind energy converters. International Journal of Structural Integrity, 2019, 12, 48-69.	3.3	8
48	Flexural strength and rotation capacity of welded I-section steel beams with longitudinally profiled flanges. Journal of Constructional Steel Research, 2020, 173, 106255.	3.9	8
49	Structural monitoring of a wind turbine steel tower - Part II: monitoring results. Wind and Structures, an International Journal, 2012, 15, 301-311.	0.8	8
50	Mechanical behaviour of welded high strength steel rectangular hollow section joints. Engineering Failure Analysis, 2021, 125, 105410.	4.0	6
51	Evaluating the strength of grade 10.9 bolts subject to multiaxial loading using the micromechanical failure index: MCEPS. Steel Construction, 2022, 15, 140-151.	0.8	6
52	Use of Plate Thermometers for Better Estimate of Fire Development. Applied Mechanics and Materials, 2011, 82, 362-367.	0.2	5
53	Initial stiffness evaluation of reverse channel connections in tension and compression. Journal of Constructional Steel Research, 2015, 114, 119-128.	3.9	5
54	Resistance of cold-formed high strength steel circular and polygonal sections - Part 2: Numerical investigations. Journal of Constructional Steel Research, 2016, 125, 227-238.	3.9	5

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55	Behaviour of double shear connections with injection bolts. Steel Construction, 2017, 10, 287-294.	0.8	5
56	Compact cross-sections of mild and high-strength steel hollow-section beams. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 825-840.	0.8	5
57	Determining the preload in preloaded bolt assemblies in existing steel structures. Steel Construction, 2017, 10, 282-286.	0.8	5
58	The Contact Problem of Roller Bearings: Investigation of Observed Failures. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2016, 26, 207-215.	0.8	4
59	Improved design of tubular wind tower foundations using steel micropiles. Structure and Infrastructure Engineering, 2016, 12, 1038-1050.	3.7	4
60	Recommendations for the design of grouped headed studs. Steel Construction, 2017, 10, 145-153.	0.8	4
61	Stress intensity factors of the rib-to-deck welded joint at the crossbeam conjunction in OSDs. Procedia Structural Integrity, 2018, 13, 2017-2023.	0.8	4
62	Residual Static Resistance of Welded Stud Shear Connectors. , 2006, , 524.		3
63	Global Fatigue Life Modelling of Steel Half-pipes Bolted Connections. Procedia Engineering, 2016, 160, 278-284.	1.2	3
64	Fatigue experimental characterization of preloaded injection bolts in a metallic bridge strengthening scenario. Engineering Structures, 2021, 234, 112005.	5.3	3
65	Headed Shear Studs versus High-Strength Bolts in Prefabricated Composite Decks. , 2016, , .		2
66	09.04: Fatigue behaviour of the closed rib to deck and crossbeam joint in a newly designed orthotropic bridge deck. Ce/Papers, 2017, 1, 2378-2387.	0.3	2
67	03.16: Multiplanar K-joints on cold-formed open sections: An experimental study with high strength steels. Ce/Papers, 2017, 1, 629-638.	0.3	2
68	Implementation of high-strength, high-performance steel structures. Steel Construction, 2018, 11, 247-248.	0.8	2
69	Towards a demountable composite slab floor system. Ce/Papers, 2019, 3, 243-249.	0.3	2
70	Calibration of welding simulation parameters of fillet welding joints used in an orthotropic steel deck. Ce/Papers, 2019, 3, 49-54.	0.3	2
71	ACOUSTIC EMISSION SOURCE LOCATION IN I GIRDER BASED ON EXPERIMENTAL STUDY AND LAMB WAVE PROPAGATION SIMULATION. Ce/Papers, 2019, 3, 3-12.	0.3	2
72	Numerical analysis of ring flange connection with defined surface area. Ce/Papers, 2021, 4, 182-188.	0.3	2

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73	Steel-reinforced resin for bolted shear connectors: Confined behaviour under quasi-static cyclic loading. Engineering Structures, 2022, 256, 114023.	5.3	2
74	Fatigue crack growth modelling for S355 structural steel considering plasticity-induced crack-closure by means of UniGrow model. International Journal of Fatigue, 2022, 164, 107120.	5.7	2
75	Thermal analysis of a pool fire test in a steel container. Journal of Fire Sciences, 2012, 30, 170-184.	2.0	1
76	Shear connection with groups of headed studs. Gradevinar, 2017, 69, 379-386.	0.2	1
77	Steel meets culture. Steel Construction, 2010, 3, 127-127.	0.8	0
78	Untersuchungen zur statischen Effizienz polygonaler und kreisfÃ¶rmiger StahltÃ¼rme fÃ¼r Windenergieanlagen. Stahlbau, 2015, 84, 1004-1009.	0.1	0
79	Numerical Study of Steel Beams in Sub-frame Assembly Validation of Existing Hand Calculation Procedures. Journal of Structural Fire Engineering, 2015, 6, 123-140.	0.8	0
80	Numerical Investigation of the Behaviour of Steel Beams in Steel-Concrete Composite Frames. , 2016, , .		0
81	Latest developments in research, standardization and practice. Steel Construction, 2017, 10, 91-92.	0.8	0
82	01.15: Numerical investigation of preloaded gusset plate connections between polygonal built-up members. Ce/Papers, 2017, 1, 292-297.	0.3	0
83	18.06: Preliminary transition piece design for an onshore wind turbine. Ce/Papers, 2017, 1, 4400-4409.	0.3	0
84	08.08: Prefabricated demountable concrete and FRP decks in composite structures. Ce/Papers, 2017, 1, 1889-1898.	0.3	0
85	Fatigue life of preloaded injection bolts in a bridge strengthening scenario â€“ sensitivity analysis of fatigue life estimators. Ce/Papers, 2021, 4, 125-130.	0.3	0
86	SUB-FRAMES WITH REVERSE CHANNEL CONNECTIONS TO CFT COMPOSITE COLUMNS â€“EXPERIMENTAL EVALUATION. , 2015, , 111-126.		0
87	AXIAL FORCE AND DEFORMATION OF A RESTRAINED STEEL BEAM IN FIRE Description and validation of a simplified analytical procedure. , 2016, , 174-193.		0
88	Resin and steel-reinforced resin used as injection materials in bolted connections. , 2020, , 717-743.		0
89	Behavior of Orthotropic Steel-UHPC Composite Bridge Deck under Cyclic Loading. IABSE Symposium Report, 2022, , .	0.0	0
90	Experimental investigations of welding induced temperature gradients and distortions in a segment of an OSD. IABSE Symposium Report, 2022, , .	0.0	0

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91	Shear performance of replaced bolt shear connectors in prefabricated composite beam. IABSE Symposium Report, 2022, , .	0.0	0