

Dimitry V Val

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,109
citations

361045

20
h-index

454577

30
g-index

31
all docs

31
docs citations

31
times ranked

1367
citing authors

#	ARTICLE	IF	CITATIONS
1	Life-cycle cost analysis of reinforced concrete structures in marine environments. <i>Structural Safety</i> , 2003, 25, 343-362.	2.8	251
2	Reliability of Deteriorating RC Slab Bridges. <i>Journal of Structural Engineering</i> , 1997, 123, 1638-1644.	1.7	236
3	Probabilistic evaluation of initiation time of chloride-induced corrosion. <i>Reliability Engineering and System Safety</i> , 2008, 93, 364-372.	5.1	158
4	Experimental and Numerical Investigation of Corrosion-Induced Cover Cracking in Reinforced Concrete Structures. <i>Journal of Structural Engineering</i> , 2009, 135, 376-385.	1.7	144
5	Effect of reinforcement corrosion on reliability of highway bridges. <i>Engineering Structures</i> , 1998, 20, 1010-1019.	2.6	141
6	Prediction of corrosion-induced cover cracking in reinforced concrete structures. <i>Construction and Building Materials</i> , 2011, 25, 1854-1869.	3.2	132
7	Analytical modelling of concrete cover cracking caused by corrosion of reinforcement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 543-556.	1.3	127
8	Deterioration of Strength of RC Beams due to Corrosion and Its Influence on Beam Reliability. <i>Journal of Structural Engineering</i> , 2007, 133, 1297-1306.	1.7	113
9	Impact of extreme weather events and climate change for health and social care systems. <i>Environmental Health</i> , 2017, 16, 128.	1.7	101
10	A network flow model for interdependent infrastructures at the local scale. <i>Safety Science</i> , 2013, 53, 51-60.	2.6	96
11	Proof load testing for bridge assessment and upgrading. <i>Engineering Structures</i> , 2000, 22, 1677-1689.	2.6	81
12	Serviceability Reliability of Reinforced Concrete Beams with Corroded Reinforcement. <i>Journal of Structural Engineering</i> , 2009, 135, 896-905.	1.7	71
13	Role of Load History in Reliability-Based Decision Analysis of Aging Bridges. <i>Journal of Structural Engineering</i> , 1999, 125, 776-783.	1.7	65
14	Reliability-based bridge assessment using risk-ranking decision analysis. <i>Structural Safety</i> , 2001, 23, 397-405.	2.8	49
15	Multiple Limit States and Expected Failure Costs for Deteriorating Reinforced Concrete Bridges. <i>Journal of Bridge Engineering</i> , 2003, 8, 405-415.	1.4	49
16	Life-Cycle Performance of RC Bridges: Probabilistic Approach. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2000, 15, 14-25.	6.3	47
17	Effect of Different Limit States on Life-Cycle Cost of RC Structures in Corrosive Environment. <i>Journal of Infrastructure Systems</i> , 2005, 11, 231-240.	1.0	39
18	Reliability of Fiber-Reinforced Polymer-Confined Reinforced Concrete Columns. <i>Journal of Structural Engineering</i> , 2003, 129, 1122-1130.	1.7	32

#	ARTICLE	IF	CITATIONS
19	Influence of loading and cracks on carbonation of RC elements made of different concrete types. Construction and Building Materials, 2018, 164, 12-28.	3.2	24
20	Cover cracking in reinforced concrete elements due to corrosion. Structure and Infrastructure Engineering, 2012, 8, 569-581.	2.0	22
21	Safety Factors for Assessment of Existing Structures. Journal of Structural Engineering, 2002, 128, 258-265.	1.7	21
22	Factors Affecting Life-Cycle Cost Analysis of RC Structures in Chloride Contaminated Environments. Journal of Infrastructure Systems, 2007, 13, 135-143.	1.0	21
23	Global optimisation approach for designing high-efficiency piezoelectric beam-based energy harvesting devices. Nano Energy, 2022, 93, 106684.	8.2	19
24	Carbonation of loaded RC elements made of different concrete types: Accelerated testing and future predictions. Construction and Building Materials, 2020, 243, 118259.	3.2	17
25	Robustness of Frame Structures. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2006, 16, 108-112.	0.5	15
26	Prediction of cover crack propagation in RC structures caused by corrosion. Magazine of Concrete Research, 2012, 64, 95-111.	0.9	14
27	Probabilistic analysis of interdependent infrastructures subjected to weather-related hazards. Civil Engineering and Environmental Systems, 2014, 31, 140-152.	0.4	8
28	Using Bayesian networks for the assessment of underwater scour for road and railway bridges. Structural Health Monitoring, 2021, 20, 2446-2460.	4.3	7
29	Resilience of Critical Infrastructure Systems to Floods: A Coupled Probabilistic Network Flow and LISFLOOD-FP Model. Water (Switzerland), 2022, 14, 683.	1.2	7
30	Climate Change-Related Risks and Adaptation of Interdependent Infrastructure Systems. , 2019, , 207-242.		1
31	Updatable Probabilistic Evaluation of Failure Rates of Mechanical Components in Power Take-Off Systems of Tidal Stream Turbines. Energies, 2021, 14, 6586.	1.6	1