Franck Schoefs

List of Publications by Year in descending order

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96 2,115 24 41 g-index

99 99 1403
all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	A comprehensive probabilistic model of chloride ingress in unsaturated concrete. Engineering Structures, 2011, 33, 720-730.	5.3	159
2	Non-destructive methods for measuring chloride ingress into concrete: State-of-the-art and future challenges. Construction and Building Materials, 2014, 68, 68-81.	7.2	129
3	Reliability assessments of corroded pipelines based on internal pressure – A review. Engineering Failure Analysis, 2019, 98, 190-214.	4.0	116
4	Texture Analysis Based Damage Detection of Ageing Infrastructural Elements. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 162-177.	9.8	86
5	An extended stochastic finite element method for solving stochastic partial differential equations on random domains. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4663-4682.	6.6	83
6	Principal component analysis and polynomial chaos expansion for time-variant reliability problems. Reliability Engineering and System Safety, 2017, 167, 406-416.	8.9	83
7	Probabilistic modeling of inspection results for offshore structures. Structural Safety, 2003, 25, 379-399.	5.3	75
8	Assessment of ROC curves for inspection of random fields. Structural Safety, 2009, 31, 409-419.	5 . 3	55
9	Development of a two-stage inspection process for the assessment of deteriorating infrastructure. Reliability Engineering and System Safety, 2010, 95, 182-194.	8.9	53
10	Stochastic improvement of inspection and maintenance of corroding reinforced concrete structures placed in unsaturated environments. Engineering Structures, 2012, 41, 50-62.	5 . 3	52
11	Statistical investigation of different analysis methods for chloride profiles within a real structure in a marine environment. Ocean Engineering, 2018, 157, 96-107.	4.3	52
12	Global kriging surrogate modeling for general time-variant reliability-based design optimization problems. Structural and Multidisciplinary Optimization, 2018, 58, 955-968.	3.5	49
13	Regionally Enhanced Multiphase Segmentation Technique for Damaged Surfaces. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 644-658.	9.8	47
14	Semantic Segmentation of Underwater Imagery Using Deep Networks Trained on Synthetic Imagery. Journal of Marine Science and Engineering, 2018, 6, 93.	2.6	43
15	Cluster analysis of acoustic emission activity within wood material: Towards a real-time monitoring of crack tip propagation. Engineering Fracture Mechanics, 2017, 180, 254-267.	4.3	40
16	Polynomial Chaos Representation for Identification of Mechanical Characteristics of Instrumented Structures. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 173-189.	9.8	35
17	An underwater lighting and turbidity image repository for analysing the performance of image-based non-destructive techniques. Structure and Infrastructure Engineering, 2018, 14, 104-123.	3.7	31
18	Updating probabilities of bridge reinforcement corrosion using health monitoring data. Engineering Structures, 2019, 190, 41-51.	5. 3	31

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19	ROC dependent event isolation method for image processing based assessment of corroded harbour structures. Structure and Infrastructure Engineering, 2010, 6, 365-378.	3.7	30
20	Sensitivity approach for modelling the environmental loading of marine structures through a matrix response surface. Reliability Engineering and System Safety, 2008, 93, 1004-1017.	8.9	29
21	Sustainable maintenance and repair of RC coastal structures. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2015, 168, 162-173.	0.2	28
22	X-SFEM, a computational technique based on X-FEM to deal with random shapes. European Journal of Computational Mechanics, 2007, 16, 277-293.	0.6	26
23	Characterization of random fields from NDT measurements: A two stages procedure. Engineering Structures, 2016, 111, 312-322.	5.3	26
24	Investigation of the effect of the quality of inspection techniques on the optimal inspection interval for structures. Structure and Infrastructure Engineering, 2012, 8, 557-568.	3.7	25
25	Time-function reliability of harbour infrastructures from stochastic modelling of corrosion. European Journal of Environmental and Civil Engineering, 2012, 16, 1187-1201.	2.1	25
26	Quantification and uncertainty analysis of a structural monitoring device: detection of chloride in concrete using DC electrical resistivity measurement. Nondestructive Testing and Evaluation, 2015, 30, 216-232.	2.1	25
27	Marine Growth Colonization Process in Guinea Gulf: Data Analysis. Journal of Offshore Mechanics and Arctic Engineering, 2007, 129, 97-106.	1.2	23
28	Towards an understanding of marine fouling effects on the vortex-induced vibrations of circular cylinders: partial coverage issue. Biofouling, 2017, 33, 268-280.	2.2	23
29	Management Strategies and Improvement of Performance of Sewer Networks. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 462-477.	9.8	21
30	Quantitative evaluation of contactless impact echo for non-destructive assessment of void detection within tendon ducts. Construction and Building Materials, 2012, 37, 885-892.	7.2	21
31	Probabilistic Modelling of Compressive Strength of Concrete Using Response Surface Methodology and Neural Networks. Arabian Journal for Science and Engineering, 2014, 39, 4451-4460.	1.1	21
32	A Conditionâ€Based Deterioration Model for the Stochastic Dependency of Corrosion Rate and Crack Propagation in Corroded Concrete Structures. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 18-33.	9.8	21
33	The $\hat{l}\pm\hat{l}'$ method for modelling expert judgement and combination of non-destructive testing tools in risk-based inspection context: application to marine structures. Structure and Infrastructure Engineering, 2012, 8, 531-543.	3.7	20
34	Stochastic Modeling of Forces on Jacket-Type Offshore Structures Colonized by Marine Growth. Journal of Marine Science and Engineering, 2019, 7, 158.	2.6	20
35	Markovian Bridge Maintenance Planning Incorporating Corrosion Initiation and Nonlinear Deterioration. Journal of Bridge Engineering, 2013, 18, 189-199.	2.9	19
36	A Stereoâ€Matching Technique for Recovering 3D Information from Underwater Inspection Imagery. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 193-208.	9.8	19

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37	Optimal embedded sensor placement for spatial variability assessment of stationary random fields. Engineering Structures, 2017, 152, 35-44.	5.3	16
38	Modeling time and spatial variability of degradation through gamma processes for structural reliability assessment. Structural Safety, 2019, 76, 162-173.	5.3	16
39	Measurements and statistical analysis of fillet weld geometrical parameters for probabilistic modelling of the fatigue capacity. Marine Structures, 2013, 34, 226-248.	3.8	15
40	Improved Bayesian network configurations for random variable identification of concrete chlorination models. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4705-4718.	3.1	15
41	A condition-based dynamic segmentation of large systems using a Changepoints algorithm: A corroding pipeline case. Structural Safety, 2020, 84, 101912.	5.3	15
42	Technical management of French harbour structures - Part 1: Description of built assets. Revue Paralia, 0, 2, 6.1-6.11.	0.0	15
43	Integration of tidal range energy with undersea pumped storage. Renewable Energy, 2018, 126, 38-48.	8.9	14
44	Accounting for variability and uncertainties in NDT condition assessment of corroded RC-structures. European Journal of Environmental and Civil Engineering, 2009, 13, 573-591.	2.1	13
45	Life Cycle Cost Analysis of Ageing Structural Components Based on Non-Destructive Condition Assessment. Australian Journal of Structural Engineering, 2009, 9, 55-66.	1.1	13
46	Improved Bayesian network configurations for probabilistic identification of degradation mechanisms: application to chloride ingress. Structure and Infrastructure Engineering, 2016, 12, 1162-1176.	3.7	13
47	A Bayesian network framework for statistical characterisation of model parameters from accelerated tests: application to chloride ingress into concrete. Structure and Infrastructure Engineering, 2018, 14, 580-593.	3.7	13
48	Applications of Virtual Data in Subsea Inspections. Journal of Marine Science and Engineering, 2020, 8, 328.	2.6	13
49	Experimental study of hard marine growth effect on the hydrodynamical behaviour of a submarine cable. Applied Ocean Research, 2021, 114, 102810.	4.1	13
50	Monitoring of a Reinforced Concrete Wharf Using Structural Health Monitoring System and Material Testing. Journal of Marine Science and Engineering, 2019, 7, 84.	2.6	12
51	Long-Term Stochastic Modeling of Sheet Pile Corrosion in Coastal Environment from On-Site Measurements. Journal of Marine Science and Engineering, 2020, 8, 70.	2.6	12
52	Fractal Dimension as an Effective Feature for Characterizing Hard Marine Growth Roughness from Underwater Image Processing in Controlled and Uncontrolled Image Environments. Journal of Marine Science and Engineering, 2021, 9, 1344.	2.6	12
53	Comparison of Additional Costs for Several Replacement Strategies of Randomly Ageing Reinforced Concrete Pipes. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 492-508.	9.8	11
54	Methodology for modeling and service life monitoring of mooring lines of floating wind turbines. Ocean Engineering, 2019, 193, 106603.	4.3	11

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55	Effect of Roughness of Mussels on Cylinder Forces from a Realistic Shape Modelling. Journal of Marine Science and Engineering, 2021, 9, 598.	2.6	11
56	Sensitivity Approach for Modeling Stochastic Field of Keulegan–Carpenter and Reynolds Numbers Through a Matrix Response Surface. Journal of Offshore Mechanics and Arctic Engineering, 2010, 132, .	1.2	10
57	Multi-algorithm approach for identification of structural behavior of complex structures under cyclic environmental loading. Structural Health Monitoring, 2012, 11, 51-67.	7. 5	10
58	Assessing the Capability of Analytical Carbonation Models to Propagate Uncertainties and Spatial Variability of Reinforced Concrete Structures. Frontiers in Built Environment, 2017, 3, .	2.3	10
59	Uncertainty assessment of concrete electrical resistivity measurements on a coastal bridge. Structure and Infrastructure Engineering, 2019, 15, 443-453.	3.7	10
60	Reliability Updating of Offshore Structures Subjected to Marine Growth. Energies, 2022, 15, 414.	3.1	10
61	Statistical Analysis of the Effects of Building Conditions on the Initial Loadings of On-piles Quays. Structural Health Monitoring, 2008, 7, 245-263.	7.5	9
62	Surface response meta-models for the assessment of embankment frictional angle stochastic properties from monitoring data: An application to harbour structures. Computers and Geotechnics, 2013, 53, 122-132.	4.7	9
63	Spatial identification of exposure zones of concrete structures exposed to a marine environment with respect to reinforcement corrosion. Structure and Infrastructure Engineering, 2020, 16, 346-354.	3.7	9
64	A two-scale probabilistic time-dependent fatigue model for offshore steel wind turbines. International Journal of Fatigue, 2020, 136, 105620.	5.7	9
65	SCAP-1D: A Spatial Correlation Assessment Procedure from unidimensional discrete data. Reliability Engineering and System Safety, 2019, 191, 106498.	8.9	8
66	Reliability of inflatable structures: challenge and first results. European Journal of Environmental and Civil Engineering, 2020, 24, 1533-1557.	2.1	8
67	Model of Bio-Colonisation on Mooring Lines: Updating Strategy Based on a Static Qualifying Sea State for Floating Wind Turbines. Journal of Marine Science and Engineering, 2020, 8, 108.	2.6	8
68	A Perturbed Markovian process with stateâ€dependent increments and measurement uncertainty in degradation modeling. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 978-995.	9.8	8
69	Matching of corroded defects in onshore pipelines based on In-Line Inspections and Voronoi partitions. Reliability Engineering and System Safety, 2022, 223, 108520.	8.9	8
70	Risk Analysis of Structures in Presence of Stochastic Fields of Deterioration: Flowchart for Coupling Inspection Results and Structural Reliability. Australian Journal of Structural Engineering, 2009, 9, 67-78.	1.1	7
71	Partial safety factor calibration from stochastic finite element computation of welded joint with random geometries. Reliability Engineering and System Safety, 2016, 155, 44-54.	8.9	7
72	Chlordetect: Commercial Calcium Aluminate Based Conductimetric Sensor for Chloride Presence Detection. Sensors, 2017, 17, 2099.	3.8	7

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73	Technical management of French harbour structures - Part 2: Current practices, needs – Experience feedback of owners. Revue Paralia, 0, 2, 7.1-7.12.	0.0	7
74	Evaluation of Hydrodynamic Force Coefficients in Presence of Biofouling on Marine/Offshore Structures, a Review and New Approach. Journal of Marine Science and Engineering, 2022, 10, 558.	2.6	7
75	Sources of uncertainties for total chloride profile measurements in concrete: quantization and impact on probability assessment of corrosion initiation. European Journal of Environmental and Civil Engineering, 2020, 24, 232-247.	2.1	6
76	Probabilistic computational mechanics of structures with a ground anchor device: from identification by SHM to reliability assessment of quays. Journal of Civil Structural Health Monitoring, 2015, 5, 307-320.	3.9	5
77	Multifidelity adaptive kriging metamodel based on discretization error bounds. International Journal for Numerical Methods in Engineering, 2020, 121, 4566-4583.	2.8	5
78	Effects of turbidity and lighting on the performance of an image processing based damage detection technique., 2014,, 2645-2650.		5
79	A cracked beam finite element for through-cracked tube. Communications in Numerical Methods in Engineering, 2007, 24, 761-775.	1.3	4
80	Probabilistic Evaluation to Improve Design of Impact–Echo Sources. Transportation Research Record, 2012, 2313, 109-115.	1.9	4
81	Characterisation and propagation of spatial fields in deterioration models: application to concrete carbonation. European Journal of Environmental and Civil Engineering, 2023, 27, 2261-2287.	2.1	4
82	High dynamic range image processing for non-destructive-testing. European Journal of Environmental and Civil Engineering, 2011, 15, 1085-1096.	2.1	3
83	Spatial variability assessment of structures from adaptive NDT measurements. Structural Safety, 2021, 89, 102052.	5.3	3
84	Stratégie d'instrumentation pour la gestion optimisée des ouvrages portuaires. , 2004, , .		3
85	Investigating the effects of climate change on structural resistance and actions. , 2021, , .		3
86	Probabilistic Modeling of Roughness Effects Caused by Bio-Colonization on Hydrodynamic Coefficients: A Sensitivity Study for Jacket-Platforms in Gulf of Guinea. , 2013, , .		2
87	Assessment of uncertainty propagation using first-order Markov chain for maintenance of pavement degradation. International Journal of Pavement Engineering, 2020, 21, 1841-1852.	4.4	2
88	Extreme storm loading on in-service wharf structures. Interest of monitoring for reliability updating. Revue Européenne De Génie Civil, 2006, 10, 565-581.	0.0	2
89	Statistical analysis and probabilistic modeling of chloride ingress spatial variability in concrete coastal infrastructures. , 0 , , .		2
90	Added value of monitoring for the maintenance of a reinforced concrete wharf with spatial variability of chloride content: a practical implementation. Structure and Infrastructure Engineering, 2024, 20, 56-68.	3.7	2

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91	Probabilistic Modeling of the Bio-Colonization Effects on Hydrodynamic Forces With Several Combinations of Sea-State Condition: A Study on Jacket-Platforms in the Gulf of Guinea. , 2013, , .		1
92	Effect of corrosion on time-dependent reliability of steel sheet-pile seawalls in marine environment conditions., 2010,, 751-758.		1
93	Thermal Characterization and Thermal Effect Assessment of Biofouling around a Dynamic Submarine Electrical Cable. Energies, 2022, 15, 3087.	3.1	1
94	Risk assessment based on performantial criterion for inspection of offshore structures in presence of large cracks. Revue Européenne De Génie Civil, 2006, 10, 531-547.	0.0	0
95	Efficacité de la maintenance conditionnelle sur des structures à dégradation aléatoire. European Journal of Environmental and Civil Engineering, 2008, 12, 1211-1225.	2.1	O
96	The $\hat{l}\pm\hat{l}$ method for modeling NDT results in risk based inspection of corroded steel wharves. Materiaux Et Techniques, 2013, 101, 507.	0.9	0