

# Martin Krejsa

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

452  
citations

1039880

9  
h-index

1058333

14  
g-index

78  
all docs

78  
docs citations

78  
times ranked

171  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Using DOProC Method in Structural Reliability Assessment. Applied Mechanics and Materials, 0, 300-301, 860-869.  | 0.2 | 37        |
| 2  | Probabilistic prediction of fatigue damage based on linear fracture mechanics. Frattura Ed Integrita Strutturale, 2017, 11, 143-159.   | 0.5 | 31        |
| 3  | Fatigue damage analysis of a riveted steel overhead crane support truss. International Journal of Fatigue, 2019, 128, 105190.  | 2.8 | 25        |
| 4  | Inspection Based Probabilistic Modeling of Fatigue Crack Progression. Procedia Engineering, 2016, 142, 146-153.  | 1.2 | 20        |
| 5  | Probabilistic Computational Methods in Structural Failure Analysis. Journal of Multiscale Modeling, 2015, 06, 1550006.   | 1.0 | 19        |
| 6  | Numerical modeling of steel fillet welded joint. Advances in Engineering Software, 2018, 117, 59-69.   | 1.8 | 16        |
| 7  | Measured Data Processing in Civil Structure Using the DOProC Method. Advanced Materials Research, 2013, 859, 114-121.  | 0.3 | 15        |
| 8  | The Use of the Direct Optimized Probabilistic Calculation Method in Design of Bolt Reinforcement for Underground and Mining Workings. Scientific World Journal, The, 2013, 2013, 1-13. | 0.8 | 14        |
| 9  | Mathematical Modelling of Thin-Walled Cold-Rolled Cross-Section. Applied Mechanics and Materials, 0, 617, 171-174.   | 0.2 | 14        |
| 10 | Numerical Modeling of Fillet and Butt Welds in Steel Structural Elements with Verification Using Experiment. Procedia Engineering, 2017, 190, 318-325.                                 | 1.2 | 14        |
| 11 | Using the Direct Determined Fully Probabilistic Method (DDFPM) for determination of failure. , 2009, , .   |     | 13        |
| 12 | Validating a Computational Model of a Rooflight Steel Structure by Means of a Load Test. Applied Mechanics and Materials, 0, 501-504, 592-598.   | 0.2 | 12        |
| 13 | Comparison of Calibration Functions for Short Edge Cracks under Selected Loads. Key Engineering Materials, 0, 754, 353-356.  | 0.4 | 11        |
| 14 | Probabilistic Failure Analysis of Steel Structures Exposed to Fatigue. Key Engineering Materials, 0, 577-578, 101-104.   | 0.4 | 10        |
| 15 | Structural Reliability Analysis Using DOProC Method. Procedia Engineering, 2016, 142, 34-41.   | 1.2 | 10        |
| 16 | Stochastic analysis for short edge cracks under selected loads. AIP Conference Proceedings, 2018, , .  | 0.3 | 10        |
| 17 | Stochastic Modelling of Fatigue Crack Progression using the DOProC Method. , 0, , .  |     | 8         |
| 18 | Probabilistic Calculation of Fatigue Crack Progression Using Fcprobcalc Code. Transactions of the VAB: Technical University of Ostrava, Civil Engineering Series, 2012, XII, 1-11.    | 0.3 | 7         |

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|----|---|-----|-----------|
| 19 | Statistical Dependence of Input Variables in Doproc Method / Statistická Závěšlost Vstupních Velíin V Metodě Popv. Transactions of the VAB: Technical University of Ostrava, Civil Engineering Series, 2012, 12, 48-58. | 0.3 | 7         |
| 20 | ProbCalc - An Efficient Tool for Probabilistic Calculations. Advanced Materials Research, 0, 969, 302-307.  | 0.3 | 7         |
| 21 | Application of the DOProC Method in Solving Reliability Problems. Applied Mechanics and Materials, 2016, 821, 717-724.  | 0.2 | 7         |
| 22 | DOProC-based reliability assessment of steel structures exposed to fatigue. Perspectives in Science, 2016, 7, 228-235.  | 0.6 | 7         |
| 23 | Using scaled physical model for assessment of mechanical damping of power plant boiler structure. Perspectives in Science, 2016, 7, 287-291.  | 0.6 | 7         |
| 24 | Innovative Connection of Steel Profiles, Experimental Verification and Application. Procedia Engineering, 2017, 190, 215-222.   | 1.2 | 7         |
| 25 | Using DOProC method in reliability assessment of steel elements exposed to fatigue. MATEC Web of Conferences, 2017, 107, 00046.   | 0.1 | 7         |
| 26 | Evaluation of fatigue properties of S355 J0 steel using ProFatigue and ProPagation software. Procedia Structural Integrity, 2018, 13, 1494-1501.  | 0.3 | 7         |
| 27 | Reliability assessment of steel bridges based on experimental research. AIP Conference Proceedings, 2019, , .   | 0.3 | 7         |
| 28 | Stochastic Service Life Prediction of Existing Steel Structure Loaded by Overhead Cranes. Procedia Structural Integrity, 2018, 13, 1539-1544.   | 0.3 | 6         |
| 29 | Experimental and Numerical Evaluation of Clinch Connections of Thin-Walled Building Structures. Sustainability, 2020, 12, 5691.   | 1.6 | 6         |
| 30 | Determination of Inspections of Structures Subject to Fatigue. Transactions of the VAB: Technical University of Ostrava, Civil Engineering Series, 2011, XI, 1-9.   | 0.3 | 6         |
| 31 | Software Package Probcalc from the Point of View of a User. Transactions of the VAB: Technical University of Ostrava, Civil Engineering Series, 2010, X, 1-11.  | 0.3 | 5         |
| 32 | Material Study of a Short Seismic Link in a Dissipative Structure of a Vertical Industrial Boiler. Applied Mechanics and Materials, 0, 623, 10-17.  | 0.2 | 5         |
| 33 | Temperature and Structural Analysis of Omega Clip. International Journal of Steel Structures, 2019, 19, 1295-1301.  | 0.6 | 5         |
| 34 | Fly Ash from the Thermal Transformation of Sewage Sludge as an Additive to Concrete Resistant to Environmental Influences in Communication Tunnels. Applied Sciences (Switzerland), 2022, 12, 1802.                     | 1.3 | 5         |
| 35 | Load Carrying Capacity of Steel Arch Reinforcement Taking into Account the Geometrical and Physical Nonlinearity. Applied Mechanics and Materials, 0, 821, 709-716.   | 0.2 | 4         |
| 36 | 3-D ESPI Measurements Applied to Selected Engineering Problems. Applied Mechanics and Materials, 0, 827, 65-68.   | 0.2 | 4         |

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|----|--|-----|-----------|
| 37 | Numerical Models of the Connection of Thin-Walled Z-Profile Roof Purlins. <i>Materials</i> , 2021, 14, 6573.   | 1.3 | 4         |
| 38 | Simulation-based reliability assessment: Tool for efficient steel design. <i>Journal of Constructional Steel Research</i> , 1998, 46, 156-158.   | 1.7 | 3         |
| 39 | Fatigue damage prediction of short edge crack under various load: Direct Optimized Probabilistic Calculation. <i>Procedia Structural Integrity</i> , 2017, 5, 1283-1290.                     | 0.3 | 3         |
| 40 | Experimental Assessment of Structural Damping of Industrial Boiler Structure. <i>Key Engineering Materials</i> , 0, 738, 195-204.  | 0.4 | 3         |
| 41 | Prediction model of corrosion losses based on probabilistic approach. <i>Procedia Structural Integrity</i> , 2018, 13, 825-830.  | 0.3 | 3         |
| 42 | An Experimental Testing of Fillet Welded Specimens. <i>Applied Mechanics and Materials</i> , 0, 752-753, 412-417.  | 0.2 | 2         |
| 43 | Modelling of Closed Steel Supports for Underground and Mining Works. <i>Key Engineering Materials</i> , 2017, 754, 313-316.  | 0.4 | 2         |
| 44 | Monitoring of Excessive Deformation of Steel Structure Extra-High Voltage Pylons. <i>Periodica Polytechnica: Civil Engineering</i> , 2017, , .   | 0.6 | 2         |
| 45 | Numerical analysis of double C profile connected by clinching technology. <i>AIP Conference Proceedings</i> , 2019, , .  | 0.3 | 2         |
| 46 | Parallelization in DOProC method and its using in probabilistic modelling of fatigue problems. <i>AIP Conference Proceedings</i> , 2019, , .   | 0.3 | 2         |
| 47 | Designing of Anchoring Reinforcement in Underground Workings Using Doproc Method. <i>Transactions of the VAB: Technical University of Ostrava, Civil Engineering Series</i> , 2010, X, 1-13. | 0.3 | 2         |
| 48 | Membrane Structures and Their Use in Civil Engineering. <i>Transactions of the VAB: Technical University of Ostrava, Civil Engineering Series</i> , 2019, 18, .                              | 0.3 | 2         |
| 49 | Utilization of Monte Carlo method for modelling of the loading history of cyclically stressed structure. <i>AIP Conference Proceedings</i> , 2020, , .                                       | 0.3 | 2         |
| 50 | Vibration Energy Signal Information for Measure Dynamic Preferences of Ceramic Building Materials Using Experimental Modal Analysis Methodology. <i>Materials</i> , 2022, 15, 1452.          | 1.3 | 2         |
| 51 | Wind Tunnel Experiments Focused on the Bridge Deck Stability Coefficients. <i>Applied Mechanics and Materials</i> , 2015, 752-753, 662-667.  | 0.2 | 1         |
| 52 | Nonlinear Solution of Steel Arch Supports. <i>Key Engineering Materials</i> , 2016, 713, 119-122.  | 0.4 | 1         |
| 53 | An Experimental Verification of the Applicability of Steels S235 and DD11 for Aseismic Structural Provisions. <i>Materials Science Forum</i> , 0, 893, 218-222.                              | 0.3 | 1         |
| 54 | Parallelization of Computational Analysis of Reinforced Concrete Slabs on Foundation. <i>Key Engineering Materials</i> , 0, 738, 319-328.  | 0.4 | 1         |

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|----|---|-----|-----------|
| 55 | Transition from Deterministic to Probabilistic Structural Steel Reliability Assessment with Special Attention to Stability Problems. , 1999, , 19-26.                                     |     | 1         |
| 56 | Stress analysis of basic shapes of membrane structures. AIP Conference Proceedings, 2020, , .   | 0.3 | 1         |
| 57 | Surface Condensation Assessment Using Probabilistic Calculation. Advanced Materials Research, 2015, 1083, 131-136.  | 0.3 | 0         |
| 58 | Vaclav Vesely 1975â€“2016. Theoretical and Applied Fracture Mechanics, 2017, 91, 2.   | 2.1 | 0         |
| 59 | Preface of the â€œSymposium on Recent Advances in Numerical Methods and Simulations in Statics and Dynamics of Structuresâ€• AIP Conference Proceedings, 2018, , .                        | 0.3 | 0         |
| 60 | Influence of initial imperfections on the behavior of the welded joint. AIP Conference Proceedings, 2018, , .   | 0.3 | 0         |
| 61 | Static behavior of the weld in the joint of the steel support element using experiment and numerical modeling. IOP Conference Series: Earth and Environmental Science, 2018, 143, 012004. | 0.2 | 0         |
| 62 | Preface of the â€œSymposium on Recent Advances in Numerical Methods and Simulations in Statics and Dynamics of Structuresâ€• AIP Conference Proceedings, 2019, , .                        | 0.3 | 0         |
| 63 | Stress analysis of the membrane structure in the shape of cone. MATEC Web of Conferences, 2020, 310, 00011.   | 0.1 | 0         |
| 64 | Probabilistic fatigue analysis of existing steel structure. MATEC Web of Conferences, 2020, 310, 00012.   | 0.1 | 0         |
| 65 | The general procedure of numerical analysis related to a fatigue damage on the cyclically loaded construction. MATEC Web of Conferences, 2020, 310, 00016.                                | 0.1 | 0         |
| 66 | NEW METHODS OF EVALUATION OF DEFORMATION STRUCTURE EXTRA-HIGH VOLTAGE PYLONS. , 2011, , .   |     | 0         |
| 67 | Reduction of computational operations in the DOProC method. , 2016, , .   |     | 0         |
| 68 | Probabilistic reliability assessment of steel elements exposed to fatigue using Bayesian approach. , 2017, , .  |     | 0         |
| 69 | Numerical analysis of fatigue damage on selected connection of the crane bridge support structure. , 2018, , .  |     | 0         |
| 70 | Refinement of Probability of Failure Estimation in DOProC method. , 2019, , .   |     | 0         |
| 71 | DOPROC METHOD IMPROVEMENTS AND ITS APPLICATION IN STRUCTURAL FATIGUE ANALYSIS. , 2019, , .  |     | 0         |
| 72 | Preface of the â€œSession on Recent Advances in Numerical Methods and Simulations in Statics and Dynamics of Structuresâ€• AIP Conference Proceedings, 2020, , .                          | 0.3 | 0         |

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|----|--|-----|-----------|
| 73 | Probabilistic Fatigue Analysis of the Existing Steel Crane Runway. , 2020, , .   |     | 0         |
| 74 | Approaches of biaxial testing of membrane materials. AIP Conference Proceedings, 2022, , .   | 0.3 | 0         |
| 75 | Spline functions in problems of structural mechanics. AIP Conference Proceedings, 2022, , .  | 0.3 | 0         |
| 76 | Preface of the "Session on Recent Advances in Numerical Methods and Simulations in Statics and Dynamics of Structures" AIP Conference Proceedings, 2022, , . | 0.3 | 0         |