

Jan KlusÅ;k

List of Publications by Year in descending order

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times ranked

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Determination of crack initiation direction from a bi-material notch based on the strain energy density concept. Computational Materials Science, 2007, 39, 214-218. | 3.0 | 19 |
| 2 | Reliability assessment of a bi-material notch: Strain energy density factor approach. Theoretical and Applied Fracture Mechanics, 2010, 53, 89-93. | 4.7 | 19 |
| 3 | Effect of rivet holes on calibration curves for edge cracks under various loading types in steel bridge structure. Procedia Structural Integrity, 2017, 5, 697-704. | 0.8 | 12 |
| 4 | Comparison of high and low frequency fatigue properties of structural steels S355J0 and S355J2. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 3202-3213. | 3.4 | 12 |
| 5 | The influence of discontinuity and orthotropy of fracture toughness on conditions of fracture initiation in singular stress concentrators. Engineering Fracture Mechanics, 2013, 110, 438-447. | 4.3 | 11 |
| 6 | Comparison of the Fatigue Crack Propagation Rates in S355 J0 and S355 J2 Steel Grades. Key Engineering Materials, 2018, 784, 91-96. | 0.4 | 11 |
| 7 | A Comparison of Two Direct Methods of Generalized Stress Intensity Factor Calculations of Bi-Material Notches. Key Engineering Materials, 0, 385-387, 409-412. | 0.4 | 10 |
| 8 | The influence of non-singular terms on the precision of stress description near a sharp material inclusion tip. Theoretical and Applied Fracture Mechanics, 2017, 90, 85-99. | 4.7 | 10 |
| 9 | An energetic criterion for a micro-crack of finite length initiated in orthotropic bi-material notches. Engineering Fracture Mechanics, 2013, 110, 396-409. | 4.3 | 9 |
| 10 | The influence of the first non-singular stress terms on crack initiation direction in an orthotropic bi-material plate. Theoretical and Applied Fracture Mechanics, 2014, 71, 67-75. | 4.7 | 9 |
| 11 | Very high cycle fatigue tests of high strength steels S355 J0 and S355 J2. Procedia Structural Integrity, 2019, 17, 576-581. | 0.8 | 8 |
| 12 | Effect of Severe Shot Peening on the Very-High Cycle Notch Fatigue of an AW 7075 Alloy. Metals, 2020, 10, 1262. | 2.3 | 8 |
| 13 | Generalised fracture mechanics approach to the interfacial failure analysis of a bonded steel-concrete joint. Frattura Ed Integrita Strutturale, 2017, 11, 147-160. | 0.9 | 8 |
| 14 | Study of the Stress Distribution Around an Orthotropic Bi-Material Notch Tip. Key Engineering Materials, 0, 417-418, 385-388. | 0.4 | 7 |
| 15 | Determination of the threshold values of orthotropic bi-material notches. Procedia Engineering, 2010, 2, 1635-1642. | 1.2 | 7 |
| 16 | Evaluation of fatigue properties of S355 J0 steel using ProFatigue and ProPagation software. Procedia Structural Integrity, 2018, 13, 1494-1501. | 0.8 | 7 |
| 17 | Fatigue Strength of Weathering Steel. Medziagotyra, 2012, 18, . | 0.2 | 6 |
| 18 | An easy and engineering stability criterion of general singular stress concentrators. Theoretical and Applied Fracture Mechanics, 2019, 104, 102341. | 4.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Influence of corrosion on fatigue behaviour of old crane runway steel. <i>Journal of Strain Analysis for Engineering Design</i> , 2019, 54, 416-423. | 1.8 | 5 |
| 20 | Comparison of fatigue crack propagation behaviour in two steel grades S235, S355 and a steel from old crane way. <i>MATEC Web of Conferences</i> , 2020, 310, 00034. | 0.2 | 5 |
| 21 | Reconstruction of a 2D stress field around the tip of a sharp material inclusion. <i>Procedia Structural Integrity</i> , 2016, 2, 1920-1927. | 0.8 | 4 |
| 22 | Multi-parameter failure assessment of a bi-material V-notch " Crack initiation from a free-edge singularity. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 100, 233-241. | 4.7 | 4 |
| 23 | An asymptotic analysis of crack initiation from an interfacial zone surrounding the circular inclusion. <i>Composite Structures</i> , 2019, 208, 479-497. | 5.8 | 4 |
| 24 | On the Crack Initiated from the Bi-Material Notch Tip. <i>Key Engineering Materials</i> , 0, 452-453, 441-444. | 0.4 | 3 |
| 25 | Wedge-Splitting Test " Determination of Minimal Starting Notch Length for Various Cement Based Composites Part II: Crack and Notch Fracture Mechanics Approaches. <i>Key Engineering Materials</i> , 0, 452-453, 81-84. | 0.4 | 3 |
| 26 | Behaviour of a crack in a corner or at a tip of a polygon-like particle. <i>Procedia Structural Integrity</i> , 2016, 2, 1912-1919. | 0.8 | 3 |
| 27 | Multi-parameter average strain energy density factor criterion applied on the bi-material notch problem. <i>Procedia Structural Integrity</i> , 2018, 13, 1261-1266. | 0.8 | 3 |
| 28 | Comparison of Analysis Methods of Data from Thermographic Measurements of Al 2024 Fatigue Limit For R=0.1. <i>Transactions of the VSB: Technical University of Ostrava</i> , 2013, 59, 155-162. | 0.1 | 3 |
| 29 | Conditions for Crack Initiation in an Orthotropic Bi-Material Notch. <i>Mechanics of Advanced Materials and Structures</i> , 2012, 19, 302-307. | 2.6 | 2 |
| 30 | Experimental Investigation of the Influence of the Bond Conditions on the Shear Bond Strength between Steel and Self-Compacting Concrete Using Push-Out Tests. <i>Key Engineering Materials</i> , 2012, 525-526, 205-208. | 0.4 | 2 |
| 31 | A numerical investigation of the stress intensity factor for a bent chevron notched specimen: Comparison of 2D and 3D solutions. <i>Procedia Structural Integrity</i> , 2017, 5, 737-744. | 0.8 | 2 |
| 32 | Multi-parameter average strain energy density factor criterion applied on the sharp material inclusion problem. <i>Procedia Structural Integrity</i> , 2018, 13, 1279-1284. | 0.8 | 2 |
| 33 | The influence of polygonal cavity on fracture behaviour of concrete. <i>Procedia Structural Integrity</i> , 2019, 17, 690-697. | 0.8 | 2 |
| 34 | Case Criterion of Crack Onset in Orthotropic Bi-Material Notches. <i>Key Engineering Materials</i> , 0, 465, 157-160. | 0.4 | 1 |
| 35 | Crack Propagation from Bi-Material Notches " Matched Asymptotic Procedure. <i>Key Engineering Materials</i> , 0, 488-489, 416-419. | 0.4 | 1 |
| 36 | Failure Conditions from Push Out Tests of a Steel-Concrete Joint: Fracture Mechanics Approach. <i>Key Engineering Materials</i> , 0, 488-489, 710-713. | 0.4 | 1 |

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|----|---|-----|-----------|
| 37 | Failure Conditions from Push-Out Tests of a Steel-Concrete Joint: Experimental Results. Key Engineering Materials, 0, 488-489, 714-717. | 0.4 | 1 |
| 38 | Thermographic Determination Methodology: Application on Fatigue Limit of AL 2024 for R=-1. Key Engineering Materials, 0, 577-578, 477-480. | 0.4 | 1 |
| 39 | Assessment of Crack Stability in a Quasi-brittle Particle Composite. Procedia Engineering, 2017, 190, 49-53. | 1.2 | 1 |
| 40 | Influence of the Interfacial Transition Zone on crack behavior in a matrix/aggregate system. Procedia Structural Integrity, 2018, 13, 1798-1803. | 0.8 | 1 |
| 41 | Multi-Parameter Fracture Mechanics: Crack Approaching a Bi-Material Interface. Key Engineering Materials, 2018, 784, 79-84. | 0.4 | 1 |
| 42 | Crack onset assessment near the sharp material inclusion tip by means of modified maximum tangential stress criterion. Frattura Ed Integrita Strutturale, 2017, 11, 66-73. | 0.9 | 1 |
| 43 | A Bi-Material Wedge "a Model for the Prediction of Failure Initiation at Shape and Material Discontinuities. Key Engineering Materials, 2006, 324-325, 1305-1308. | 0.4 | 0 |
| 44 | Case Study of Crack Initiation from Bi-Material Notches. Key Engineering Materials, 0, 452-453, 449-452. | 0.4 | 0 |
| 45 | The Influence of the Epoxy Interlayer on the Assessment of Failure Conditions of Push-Out Test Specimens. Key Engineering Materials, 0, 525-526, 61-64. | 0.4 | 0 |
| 46 | On the Direction of a Crack Initiated from an Orthotropic Bi-Material Notch Composed of Materials with Non-Uniform Fracture Mechanics Properties. Key Engineering Materials, 0, 525-526, 545-548. | 0.4 | 0 |
| 47 | Fracture analysis of epoxy-aluminum spacers exposed to pressure loads. Computational Materials Science, 2012, 64, 244-247. | 3.0 | 0 |
| 48 | An Effect of the First Non-Singular Term of the Williams Asymptotic Expansion to the Stability of the Bi-Material Orthotropic Notch. Key Engineering Materials, 0, 592-593, 745-748. | 0.4 | 0 |
| 49 | Bi-Material Notches under Various Normal-Shear Loading Modes. Key Engineering Materials, 0, 577-578, 361-364. | 0.4 | 0 |
| 50 | Evaluation of Conventional Al 2024 Fatigue Limit in Fatigue Test Using Thermographic Measurement: Effect of Frequency. Advanced Materials Research, 0, 891-892, 1308-1313. | 0.3 | 0 |
| 51 | Analytical-Numerical Determination of Stress Distribution around a Tip of Polygon-Like Inclusion. Key Engineering Materials, 2016, 713, 94-98. | 0.4 | 0 |
| 52 | Multi-Parameter Based Stress Distribution in Vicinity of Sharp Material Inclusion Tip. Solid State Phenomena, 0, 258, 169-173. | 0.3 | 0 |
| 53 | Generalized Stress Intensity Factors Determination by Overdeterministic Method in Case of Bi-material Junction. Structural Integrity, 2019, , 237-239. | 1.4 | 0 |
| 54 | 3D assessment of surface influence on crack initiation in sharp notches under a mixed mode of loading. Theoretical and Applied Fracture Mechanics, 2021, 112, 102920. | 4.7 | 0 |

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|----|--|-----|-----------|
| 55 | Microcrack interaction with circular inclusion and interfacial zone. Frattura Ed Integrita Strutturale, 2019, 13, 503-512. | 0.9 | 0 |