

Lucie Malikova

List of Publications by Year in descending order

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docs citations

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times ranked

256
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#	ARTICLE	IF	CITATIONS
1	Strategies for fracture toughness, strength and reliability optimisation of ceramic-ceramic laminates. International Journal of Materials Research, 2011, 102, 613-626.	0.3	54
2	Prediction of crack propagation in layered ceramics with strong interfaces. Engineering Fracture Mechanics, 2010, 77, 2192-2199.	4.3	44
3	Multi-parameter fracture criteria for the estimation of crack propagation direction applied to a mixed-mode geometry. Engineering Fracture Mechanics, 2015, 143, 32-46.	4.3	43
4	The influence of higher order terms of Williams series on a more accurate description of stress fields around the crack tip. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 91-103.	3.4	37
5	Crack propagation direction in a mixed mode geometry estimated via multi-parameter fracture criteria. International Journal of Fatigue, 2016, 89, 99-107.	5.7	26
6	Influence of particle size on the fracture toughness of a PP-based particulate composite. Mechanics of Composite Materials, 2009, 45, 281-286.	1.4	22
7	Evaluation of the SIF and T-stress values of the Brazilian disc with a central notch by hybrid method. International Journal of Fatigue, 2020, 135, 105562.	5.7	22
8	A fracture mechanics assessment of surface cracks existing in protective layers of multi-layer composite pipes. Composite Structures, 2010, 92, 1120-1125.	5.8	20
9	Estimation of apparent fracture toughness of ceramic laminates. Computational Materials Science, 2009, 46, 614-620.	3.0	19
10	Multi-parameter crack tip stress state description for evaluation of nonlinear zone width in silicate composite specimens in component splitting/bending test geometry. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 200-214.	3.4	15
11	Estimation of the crack propagation direction in a mixed-mode geometry via multi-parameter fracture criteria. Frattura Ed Integrita Strutturale, 2015, 9, 25-32.	0.9	14
12	Comparison of Calibration Functions for Short Edge Cracks under Selected Loads. Key Engineering Materials, 0, 754, 353-356.	0.4	11
13	Using the Multi-Parameter Fracture Mechanics for more Accurate Description of Stress/Displacement Crack Tip Fields. Key Engineering Materials, 0, 586, 237-240.	0.4	10
14	Significance of Higher-order Terms of the Williams Expansion for Plastic Zone Extent Estimation Demonstrated on a Mixed-mode Geometry. , 2014, 3, 1383-1388.		10
15	Influence of the constraint effect on the fatigue crack growth rate in S355 J2 steel using digital image correlation. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1703-1718.	3.4	10
16	Accurate Description of Near-Crack-Tip Fields for the Estimation of Inelastic Zone Extent in Quasi-Brittle Materials. Key Engineering Materials, 2012, 525-526, 529-532.	0.4	8
17	Influence of the elastic mismatch on crack propagation in a silicate-based composite. Theoretical and Applied Fracture Mechanics, 2017, 91, 25-30.	4.7	8
18	Influence of Boundary Conditions on Higher Order Terms of Near-Crack-Tip Stress Field in a WST Specimen. Key Engineering Materials, 0, 488-489, 399-402.	0.4	7

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19	Multi-parameter crack tip stress state description for estimation of fracture process zone extent in silicate composite WST specimens. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 69-78.	0.9	7
20	An advanced assessment of mechanical fracture parameters of sandstones depending on the internal rock texture features. <i>Acta Geodynamica Et Geomaterialia</i> , 2019, , 157-168.	0.5	7
21	Mechanical Fracture and Fatigue Characteristics of Fine-Grained Composite Based on Sodium Hydroxide-Activated Slag Cured under High Relative Humidity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 259.	2.5	7
22	Special fracture mechanics specimens for multilayer plastic pipes testing. <i>Polymer Testing</i> , 2009, 28, 785-792.	4.8	6
23	Detailed Crack-Tip Stress Field Description in a Specimen Subjected to Mixed-Mode Loading. <i>Key Engineering Materials</i> , 0, 577-578, 317-320.	0.4	6
24	Williams expansion utilized for assessment of crack behaviour under mixed-mode loading in alkali-activated fine-grained composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1151-1161.	3.4	4
25	Over-deterministic method: The influence of rounding numbers on the accuracy of the values of Williams' expansion terms. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 128-135.	0.9	4
26	Fracture Mechanisms of Structural and Functional Multilayer Ceramic Structures. <i>Key Engineering Materials</i> , 0, 465, 41-46.	0.4	3
27	Crack Path Investigation Using the Generalized Maximum Tangential Stress Criterion: Antisymmetrical Four-Point Bending Specimen. <i>Applied Mechanics and Materials</i> , 2013, 436, 108-113.	0.2	3
28	Application of the Williams Expansion near a Bi-Material Interface. <i>Key Engineering Materials</i> , 2017, 754, 206-209.	0.4	3
29	Williams' expansion-based approximation of the displacement field in an Al 2024 compact tension specimen reconstructed from optical measurements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 2187-2196.	3.4	3
30	Modelling of interfacial transition zone effect on resistance to crack propagation in fine-grained cement-based composites. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 211-219.	0.9	3
31	Application of Multi-Parameter Fracture Mechanics to Study of Crack Propagation Angle in Selected Mixed-Mode Geometry. <i>Key Engineering Materials</i> , 0, 592-593, 209-212.	0.4	2
32	Estimation of the Zone of Failure Extent in Quasi-Brittle Specimens with Different Crack-Tip Constraint Conditions from Stress Field. <i>Key Engineering Materials</i> , 0, 592-593, 262-265.	0.4	2
33	Evaluation of fracture response of Silesian granite specimens via Effective Crack Model approach and finite element analysis. <i>Procedia Structural Integrity</i> , 2019, 23, 487-492.	0.8	2
34	Influence of the interphase between laser-cladded metal layer and steel substrate on fatigue propagation of a short edge crack. <i>Frattura Ed Integrita Strutturale</i> , 2022, 16, 514-524.	0.9	2
35	Crack Behaviour in Laminar Ceramics with Strong Interfaces. <i>Key Engineering Materials</i> , 0, 417-418, 301-304.	0.4	1
36	Generalized Linear Elastic Fracture Mechanics: An Application to a Crack Touching the Bimaterial Interface. <i>Key Engineering Materials</i> , 0, 452-453, 445-448.	0.4	1

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37	Assessment of Crack Stability in a Quasi-brittle Particle Composite. Procedia Engineering, 2017, 190, 49-53.	1.2	1
38	Influence of the Interfacial Transition Zone on crack behavior in a matrix/aggregate system. Procedia Structural Integrity, 2018, 13, 1798-1803.	0.8	1
39	Multi-Parameter Fracture Mechanics: Crack Approaching a Bi-Material Interface. Key Engineering Materials, 2018, 784, 79-84.	0.4	1
40	Crack propagation in a brittle DCB specimen assessed by means of the Williams's™ power expansion. Frattura Ed Integrita Strutturale, 2019, 13, 34-41.	0.9	1
41	Williams expansion-based approximation of the stress field in an Al 2024 body with a crack from optical measurements. Frattura Ed Integrita Strutturale, 2017, 11, 323-331.	0.9	1
42	Multi-parameter fracture mechanics. Frattura Ed Integrita Strutturale, 2019, 13, 65-73.	0.9	1
43	Estimation of the Plastic Zone Size from the Multi-Parameter/Generalized Form of Fracture Criteria on Various Mode I Geometries. Key Engineering Materials, 2015, 662, 169-172.	0.4	0
44	Particulate Composite Damage: The Influence of Particle Shape on Crack Path. Key Engineering Materials, 0, 662, 77-80.	0.4	0
45	Vaclav Vesely 1975â€“2016. Theoretical and Applied Fracture Mechanics, 2017, 91, 2.	4.7	0
46	Crack propagation in mixed-mode specimens described via multi-parameter fracture mechanics. IOP Conference Series: Materials Science and Engineering, 2019, 629, 012013.	0.6	0
47	Utilization of Williams's™ Power Series for Estimation of Crack Behavior under Mixed-Mode Loading. Key Engineering Materials, 0, 827, 203-208.	0.4	0
48	Propagation conditions of an eccentric crack in a semi-circular disk loaded in I+II mixed mode. MATEC Web of Conferences, 2020, 310, 00017.	0.2	0
49	Multi-temporal analysis of vegetation reflectance using MERIS data in the Czech Republic. , 2014, 18, 30-34.		0
50	Basic features of aggregate-matrix-interface fracture of concrete: Pilot modelling. , 2016, , .		0
51	Impact of specific fracture energy investigated in front of the crack tip of three-point bending specimen. Frattura Ed Integrita Strutturale, 2017, 11, 183-190.	0.9	0
52	Crack Propagation in Various Double Cantilever Beam Geometric Configurations. Lecture Notes in Mechanical Engineering, 2019, , 164-170.	0.4	0
53	Approximation of the crack-tip field in fatigue cracks in bridge steel specimens: DIC analysis of different constraint levels. Frattura Ed Integrita Strutturale, 2019, 13, 97-106.	0.9	0
54	Crack deflection under mixed-mode loading investigated via generalized MTS criterion. AIP Conference Proceedings, 2020, , .	0.4	0

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55	Mixed-mode crack propagation in a semi-circular disc under bending made of an environmental-friendly concrete. <i>Procedia Structural Integrity</i> , 2020, 28, 403-410.	0.8	0
56	Influence of the bi-material interface on the crack propagation through a thin protective layer. <i>Procedia Structural Integrity</i> , 2021, 33, 605-612.	0.8	0
57	Crack Deflection Under Mixed-Mode Loading Conditions in Fine-Grained Composites Based on Water Glass-Activated Slag. <i>Journal of Multiscale Modeling</i> , 2022, 13, .	1.1	0