

# Lucie Malikova

## List of Publications by Year in descending order

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57  
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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Propagation conditions of an eccentric crack in a semi-circular disk loaded in I+II mixed mode. <i>MATEC Web of Conferences</i> , 2020, 310, 00017.	0.2	0
7	Evaluation of the SIF and T-stress values of the Brazilian disc with a central notch by hybrid method. <i>International Journal of Fatigue</i> , 2020, 135, 105562.	5.7	22
8	Influence of the constraint effect on the fatigue crack growth rate in S355 J2 steel using digital image correlation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1703-1718.	3.4	10
9	Crack deflection under mixed-mode loading investigated via generalized MTS criterion. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
10	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
11	Crack propagation in mixed-mode specimens described via multi-parameter fracture mechanics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 629, 012013.	0.6	0
12	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
13	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
14	Crack propagation in a brittle DCB specimen assessed by means of the Williams's™ power expansion. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 34-41.	0.9	1
15	Crack Propagation in Various Double Cantilever Beam Geometric Configurations. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 164-170.	0.4	0
16	Approximation of the crack-tip field in fatigue cracks in bridge steel specimens: DIC analysis of different constraint levels. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 97-106.	0.9	0
17	Multi-parameter fracture mechanics. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 65-73.	0.9	1
18	Influence of the Interfacial Transition Zone on crack behavior in a matrix/aggregate system. <i>Procedia Structural Integrity</i> , 2018, 13, 1798-1803.	0.8	1

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19	Multi-Parameter Fracture Mechanics: Crack Approaching a Bi-Material Interface. Key Engineering Materials, 2018, 784, 79-84.	0.4	1
20	Williams' expansion-based approximation of the displacement field in an Al 2024 compact tension specimen reconstructed from optical measurements. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2187-2196.	3.4	3
21	Assessment of Crack Stability in a Quasi-brittle Particle Composite. Procedia Engineering, 2017, 190, 49-53.	1.2	1
22	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
23	Vaclav Vesely 1975-2016. Theoretical and Applied Fracture Mechanics, 2017, 91, 2.	4.7	0
24	Application of the Williams Expansion near a Bi-Material Interface. Key Engineering Materials, 2017, 754, 206-209.	0.4	3
25	Modelling of interfacial transition zone effect on resistance to crack propagation in fine-grained cement-based composites. Frattura Ed Integrita Strutturale, 2017, 11, 211-219.	0.9	3
26	Over-deterministic method: The influence of rounding numbers on the accuracy of the values of Williams' expansion terms. Frattura Ed Integrita Strutturale, 2017, 11, 128-135.	0.9	4
27	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
28	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
29	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
30	Basic features of aggregate-matrix-interface fracture of concrete: Pilot modelling. , 2016, , .		0
31	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
32	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
33	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
34	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
35	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
36	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

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37	Multi-temporal analysis of vegetation reflectance using MERIS data in the Czech Republic. , 2014, 18, 30-34.		0
38	Crack Path Investigation Using the Generalized Maximum Tangential Stress Criterion: Antisymmetrical Four-Point Bending Specimen. Applied Mechanics and Materials, 2013, 436, 108-113.	0.2	3
39	Multi-parameter crack tip stress state description for estimation of fracture process zone extent in silicate composite WST specimens. Frattura Ed Integrita Strutturale, 2013, 7, 69-78.	0.9	7
40	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
41	Strategies for fracture toughness, strength and reliability optimisation of ceramic-ceramic laminates. International Journal of Materials Research, 2011, 102, 613-626.	0.3	54
42	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
43	Prediction of crack propagation in layered ceramics with strong interfaces. Engineering Fracture Mechanics, 2010, 77, 2192-2199.	4.3	44
44	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
45	Special fracture mechanics specimens for multilayer plastic pipes testing. Polymer Testing, 2009, 28, 785-792.	4.8	6
46	Estimation of apparent fracture toughness of ceramic laminates. Computational Materials Science, 2009, 46, 614-620.	3.0	19
47	Crack Behaviour in Laminar Ceramics with Strong Interfaces. Key Engineering Materials, 0, 417-418, 301-304.	0.4	1
48	Generalized Linear Elastic Fracture Mechanics: An Application to a Crack Touching the Bimaterial Interface. Key Engineering Materials, 0, 452-453, 445-448.	0.4	1
49	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
50	Fracture Mechanisms of Structural and Functional Multilayer Ceramic Structures. Key Engineering Materials, 0, 465, 41-46.	0.4	3
51	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
52	Application of Multi-Parameter Fracture Mechanics to Study of Crack Propagation Angle in Selected Mixed-Mode Geometry. Key Engineering Materials, 0, 592-593, 209-212.	0.4	2
53	Estimation of the Zone of Failure Extent in Quasi-Brittle Specimens with Different Crack-Tip Constraint Conditions from Stress Field. Key Engineering Materials, 0, 592-593, 262-265.	0.4	2
54	Detailed Crack-Tip Stress Field Description in a Specimen Subjected to Mixed-Mode Loading. Key Engineering Materials, 0, 577-578, 317-320.	0.4	6

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55	Particulate Composite Damage: The Influence of Particle Shape on Crack Path. Key Engineering Materials, 0, 662, 77-80.	0.4	0
56	Comparison of Calibration Functions for Short Edge Cracks under Selected Loads. Key Engineering Materials, 0, 754, 353-356.	0.4	11
57	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