

Gerald Härtter

List of Publications by Year in descending order

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papers

815
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430754

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46
all docs

46
docs citations

46
times ranked

549
citing authors

#	ARTICLE	IF	CITATIONS
19	Size effects due to secondary voids during ductile crack propagation. International Journal of Solids and Structures, 2014, 51, 839-847.	1.3	17
20	Application of a microstrain continuum to size effects in bending and torsion of foams. International Journal of Engineering Science, 2016, 101, 81-91.	2.7	16
21	Analytical solutions of the cylindrical bending problem for the relaxed micromorphic continuum and other generalized continua. Continuum Mechanics and Thermodynamics, 2021, 33, 1505-1539.	1.4	16
22	Numerical investigation of low cycle fatigue mechanism in nodular cast iron. International Journal of Fatigue, 2018, 113, 290-298.	2.8	15
23	Ductile crack propagation by plastic collapse of the intervoid ligaments. International Journal of Fracture, 2012, 176, 81-96.	1.1	11
24	An extended Colemanâ€Noll procedure for generalized continuum theories. Continuum Mechanics and Thermodynamics, 2016, 28, 1935-1941.	1.4	11
25	A first-order strain gradient damage model for simulating quasi-brittle failure in porous elastic solids. Archive of Applied Mechanics, 2013, 83, 955-967.	1.2	9
26	Dislocation pile-up and cleavage: effects of strain gradient plasticity on micro-crack initiation in ferritic steel. International Journal of Fracture, 2018, 214, 1-15.	1.1	9
27	Analytical solution of the cylindrical torsion problem for the relaxed micromorphic continuum and other generalized continua (including full derivations). Mathematics and Mechanics of Solids, 2022, 27, 507-553.	1.5	9
28	A Hybrid Approach Employing Neural Networks to Simulate the Elastoâ~Plastic Deformation Behavior of 3Dâ€Foam Structures. Advanced Engineering Materials, 2022, 24, 2100641.	1.6	9
29	Kinematics and constitutive relations in the stress-gradient theory: interpretation by homogenization. International Journal of Solids and Structures, 2020, 193-194, 90-97.	1.3	8
30	Influence of topology and porosity on size effects in stripes of cellular material with honeycomb structure under shear, tension and bending. Mechanics of Materials, 2021, 154, 103727.	1.7	8
31	Simulation of local instabilities during crack propagation in the ductileâ€brittle transition region. European Journal of Mechanics, A/Solids, 2011, 30, 195-203.	2.1	7
32	Micromechanical Modeling of Crack Propagation with Competing Ductile and Cleavage Failure. , 2014, 3, 428-433.		6
33	Micromorphic homogenisation and its application to a model of ductile damage. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 599-600.	0.2	6
34	Influence of the Foam Morphology on the Mechanical Behavior of Flowâ€Through Foam Filters During Filtration Processes. Advanced Engineering Materials, 2022, 24, 2100784.	1.6	3
35	A Novel Micromechanics Approach for Understanding of Fatigue in Nodular Cast Iron. Procedia Structural Integrity, 2018, 13, 607-612.	0.3	2
36	Micromechanical simulation of fatigue in nodular cast iron under stressâ€controlled loading. Material Design and Processing Communications, 2021, 3, e214.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Colemanâ€Noll Procedure for Classical and Generalized Continuum Theories. , 2018, , 1-8.		1
38	Effect of Gradient Plasticity on Crack Initiation and Propagation in the Ductile-Brittle Transition Region of Ferritic Steel. Procedia Structural Integrity, 2018, 13, 45-50.	0.3	1
39	A hybrid approach for the multi-scale simulation of irreversible material behavior incorporating neural networks. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000248.	0.2	1
40	Simulation of Crack Propagation under Small-Scale Yielding by means of a Non-local GTN-Model. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 157-158.	0.2	0
41	Micromechanical Modeling of Crack Initiation and Propagation in the Ductile-Brittle Transition Region. Key Engineering Materials, 2016, 713, 58-61.	0.4	0
42	Micromorphic Homogenisation of a Porous Medium: Application to Size Effects and Quasi-Brittle Damage. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 347-348.	0.2	0
43	Meinhard Kuna: Physics and Engineering at the Crack Tipâ€A Retrospective. , 2016, , 3-22.		0
44	Characterising Fatigue Behaviour of Nodular Cast Iron Using Micromechanical Simulations. MATEC Web of Conferences, 2019, 300, 13002.	0.1	0
45	Efficient monolithic solution of FE2 problems. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0