

Charlotte Kuhn

List of Publications by Year in descending order

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56
papers

1,395
citations

623734

14
h-index

330143

37
g-index

57
all docs

57
docs citations

57
times ranked

804
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase field simulation of fatigue crack propagation under complex load situations. Archive of Applied Mechanics, 2021, 91, 563-577.	2.2	22
2	Phase field modeling of fatigue crack initiation and growth under various loading situations. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000029.	0.2	0
3	Phase Field Simulations of Wetting Based on Molecular Simulations. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000035.	0.2	2
4	Lattice Boltzmann Simulation of Plane Strain Problems. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000119.	0.2	2
5	Adaptive Orientation of Exponential Finite Elements for a Phase Field Fracture Model. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000140.	0.2	1
6	Adaptive Exponential Finite Elements for a Phase Field Fracture Model. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0
7	Phase Field Modeling of Dynamic Surface Wetting informed by Molecular Simulations. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
8	3D phase field simulations of ductile fracture. GAMM Mitteilungen, 2020, 43, e202000008.	5.5	19
9	A phase field modeling approach of cyclic fatigue crack growth. International Journal of Fracture, 2020, 225, 89-100.	2.2	62
10	Molecular dynamics and phase field simulations of droplets on surfaces with wettability gradient. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112773.	6.6	27
11	A Navier–Stokes–Korteweg Model for Dynamic Wetting based on the PeTS Equation of State. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900091.	0.2	2
12	On phase field modeling in the context of cyclic mechanical fatigue. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900104.	0.2	3
13	Phase field modeling of interface effects on cracks in heterogeneous materials. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900378.	0.2	6
14	Topology optimization combined with element-by-element solution techniques. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900173.	0.2	1
15	Lattice Boltzmann Simulation of the Dynamic Behavior of Solids. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900152.	0.2	0
16	Lattice Boltzmann simulation of antiplane shear loading of a stationary crack. Computational Mechanics, 2018, 62, 1059-1069.	4.0	9
17	Configurational Forces in a Phase Field Model for Dynamic Brittle Fracture. Advanced Structured Materials, 2018, , 343-364.	0.5	0
18	Investigating the stability of the phase field solution of equilibrium droplet configurations by eigenvalues and eigenvectors. Computational Materials Science, 2018, 141, 185-192.	3.0	13

#	ARTICLE	IF	CITATIONS
19	Deformation behaviour of small scale cpâ€titanium specimen with large grains. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800360.	0.2	0
20	Modeling of Ductile Fracture by a Phase Field Approach. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800376.	0.2	0
21	Lattice Boltzmann method applied to antiplane shear loading of a stationary crack. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800288.	0.2	3
22	Phase field modeling of brittle fracture in materials with anisotropic fracture resistance. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800113.	0.2	1
23	Three-dimensional phase field modeling of inhomogeneous gas-liquid systems using the PeTS equation of state. Journal of Chemical Physics, 2018, 149, 064701.	3.0	14
24	On a phase field approach for martensitic transformations in a crystal plastic material at a loaded surface. Continuum Mechanics and Thermodynamics, 2017, 29, 957-968.	2.2	14
25	Phase field modelling of dynamic thermal fracture in the context of irradiation damage. Continuum Mechanics and Thermodynamics, 2017, 29, 977-988.	2.2	19
26	Simulation of Laser-Induced Controlled Fracturing Utilizing a Phase Field Model. Journal of Computing and Information Science in Engineering, 2017, 17, .	2.7	2
27	Numerical Solution Strategies for a Dynamic Phase Field Fracture Model. Applied Mechanics and Materials, 2017, 869, 29-49.	0.2	0
28	Robust implementation of multi-slip crystal plasticity for micro machining simulations based on Fischer-Burmeister complementary functions. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 407-408.	0.2	1
29	Surface Wetting with Droplets: A Phase Field Approach. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 501-502.	0.2	7
30	A Monolithic Solution Scheme for a Phase Field Model of Ductile Fracture. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 75-78.	0.2	4
31	Investigation of a Phase Field Model for Elastoâ€plastic Fracture. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 157-158.	0.2	2
32	On phase field modeling of ductile fracture. GAMM Mitteilungen, 2016, 39, 35-54.	5.5	88
33	On configurational forces in a dynamic phase field model for fracturing. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 171-172.	0.2	0
34	Simulation of Surface Wetting by Droplets Using a Phase Field Model. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 519-520.	0.2	7
35	Simulation of microâ€cutting considering finite deformation crystal plasticity. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 305-306.	0.2	0
36	Determination of Effective Properties of MMC by Computational Homogenization. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 567-568.	0.2	3

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37	An investigation of intersonic fracture using a phase field model. Archive of Applied Mechanics, 2016, 86, 321-333.	2.2	15
38	Simulation of micro cutting considering crystal plastic deformations. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 331-332.	0.2	0
39	Martensitic transformations and damage: A combined phase field approach. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 357-358.	0.2	0
40	A combined phase field approach for martensitic transformations and damage. Archive of Applied Mechanics, 2015, 85, 1459-1468.	2.2	24
41	On degradation functions in phase field fracture models. Computational Materials Science, 2015, 108, 374-384.	3.0	234
42	Phase Field Approximation of Dynamic Brittle Fracture. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 143-144.	0.2	4
43	Simulation of size effects by a phase field model for fracture. Theoretical and Applied Mechanics Letters, 2014, 4, 051008.	2.8	9
44	Configurational forces in crystal plasticity: an analysis of the influence of grain boundaries on crack driving forces. Archive of Applied Mechanics, 2014, 84, 1427-1439.	2.2	3
45	Phase field approximation of dynamic brittle fracture. Computational Mechanics, 2014, 54, 1141-1161.	4.0	212
46	Configurational Forces in Cutting Processes of Microstructured Titanium. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 331-332.	0.2	0
47	Strategies for the Computation of Configurational Forces in Dissipative Media. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 171-172.	0.2	0
48	A Phase Field Approach for Martensitic Transformations and Crystal Plasticity. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 383-384.	0.2	3
49	A phase field approach for multivariant martensitic transformations of stable and metastable phases. Archive of Applied Mechanics, 2013, 83, 849-859.	2.2	40
50	A Phase Field Approach for Dynamic Fracture. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 87-88.	0.2	7
51	Interpretation of parameters in phase field models for fracture. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 161-162.	0.2	5
52	A Phase Field Model for Martensitic Transformations. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 261-262.	0.2	3
53	On an Energetic Interpretation of a Phase Field Model for Fracture. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 159-160.	0.2	6
54	A continuum phase field model for fracture. Engineering Fracture Mechanics, 2010, 77, 3625-3634.	4.3	466

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55	Exponential Finite Elements for a Phase Field Fracture Model. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 121-122.	0.2	6
56	Phase field simulation of thermomechanical fracture. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 191-192.	0.2	23