Charlotte Kuhn

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A continuum phase field model for fracture. Engineering Fracture Mechanics, 2010, 77, 3625-3634.	4.3	466
2	On degradation functions in phase field fracture models. Computational Materials Science, 2015, 108, 374-384.	3.0	234
3	Phase field approximation of dynamic brittle fracture. Computational Mechanics, 2014, 54, 1141-1161.	4.0	212
4	On phase field modeling of ductile fracture. GAMM Mitteilungen, 2016, 39, 35-54.	5.5	88
5	A phase field modeling approach of cyclic fatigue crack growth. International Journal of Fracture, 2020, 225, 89-100.	2.2	62
6	A phase field approach for multivariant martensitic transformations of stable and metastable phases. Archive of Applied Mechanics, 2013, 83, 849-859.	2.2	40
7	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
8	A combined phase field approach for martensitic transformations and damage. Archive of Applied Mechanics, 2015, 85, 1459-1468.	2.2	24
9	Phase field simulation of thermomechanical fracture. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 191-192.	0.2	23
10	Phase field simulation of fatigue crack propagation under complex load situations. Archive of Applied Mechanics, 2021, 91, 563-577.	2.2	22
11	Phase field modelling of dynamic thermal fracture in the context of irradiation damage. Continuum Mechanics and Thermodynamics, 2017, 29, 977-988.	2.2	19
12	3D phase field simulations of ductile fracture. GAMM Mitteilungen, 2020, 43, e202000008.	5.5	19
13	An investigation of intersonic fracture using a phase field model. Archive of Applied Mechanics, 2016, 86, 321-333.	2.2	15
14	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
15	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
16	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
17	Simulation of size effects by a phase field model for fracture. Theoretical and Applied Mechanics Letters, 2014, 4, 051008.	2.8	9
18	Lattice Boltzmann simulation of antiplane shear loading of a stationary crack. Computational Mechanics, 2018, 62, 1059-1069.	4.0	9

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19	A Phase Field Approach for Dynamic Fracture. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 87-88.	0.2	7
20	Simulation of Surface Wetting by Droplets Using a Phase Field Model. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 519-520.	0.2	7
21	Surface Wetting with Droplets: A Phase Field Approach. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 501-502.	0.2	7
22	Exponential Finite Elements for a Phase Field Fracture Model. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 121-122.	0.2	6
23	On an Energetic Interpretation of a Phase Field Model for Fracture. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 159-160.	0.2	6
24	Phase field modeling of interface effects on cracks in heterogeneous materials. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900378.	0.2	6
25	Interpretation of parameters in phase field models for fracture. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 161-162.	0.2	5
26	Phase Field Approximation of Dynamic Brittle Fracture. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 143-144.	0.2	4
27	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
28	A Phase Field Model for Martensitic Transformations. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 261-262.	0.2	3
29	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
30	A Phase Field Approach for Martensitic Transformations and Crystal Plasticity. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 383-384.	0.2	3
31	Determination of Effective Properties of MMC by Computational Homogenization. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 567-568.	0.2	3
32	Lattice Boltzmann method applied to antiplane shear loading of a stationary crack. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800288.	0.2	3
33	On phase field modeling in the context of cyclic mechanical fatigue. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900104.	0.2	3
34	Investigation of a Phase Field Model for Elastoâ€plastic Fracture. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 157-158.	0.2	2
35	Simulation of Laser-Induced Controlled Fracturing Utilizing a Phase Field Model. Journal of Computing and Information Science in Engineering, 2017, 17, .	2.7	2
36	A Navier‣tokesâ€Korteweg Model for Dynamic Wetting based on the PeTS Equation of State. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900091.	0.2	2

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37	Phase Field Simulations of Wetting Based on Molecular Simulations. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000035.	0.2	2
38	Lattice Boltzmann Simulation of Plane Strain Problems. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000119.	0.2	2
39	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
40	Phase field modeling of brittle fracture in materials with anisotropic fracture resistance. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800113.	0.2	1
41	Topology optimization combined with elementâ€byâ€element solution techniques. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900173.	0.2	1
42	Adaptive Orientation of Exponential Finite Elements for a Phase Field Fracture Model. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000140.	0.2	1
43	Phase Field Modeling of Dynamic Surface Wetting informed by Molecular Simulations. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
44	Configurational Forces in Cutting Processes of Microstructured Titanium. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 331-332.	0.2	0
45	Strategies for the Computation of Configurational Forces in Dissipative Media. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 171-172.	0.2	Ο
46	Simulation of micro cutting considering crystal plastic deformations. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 331-332.	0.2	0
47	Martensitic transformations and damage: A combined phase field approach. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 357-358.	0.2	Ο
48	On configurational forces in a dynamic phase field model for fracturing. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 171-172.	0.2	0
49	Simulation of micro utting considering finite deformation crystal plasticity. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 305-306.	0.2	Ο
50	Numerical Solution Strategies for a Dynamic Phase Field Fracture Model. Applied Mechanics and Materials, 2017, 869, 29-49.	0.2	0
51	Configurational Forces in a Phase Field Model for Dynamic Brittle Fracture. Advanced Structured Materials, 2018, , 343-364.	0.5	0
52	Deformation behaviour of small scale cpâ€ŧitanium specimen with large grains. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800360.	0.2	0
53	Modeling of Ductile Fracture by a Phase Field Approach. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800376.	0.2	0
54	Lattice Boltzmann Simulation of the Dynamic Behavior of Solids. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900152.	0.2	0

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55	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
56	Adaptive Exponential Finite Elements for a Phase Field Fracture Model. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0