Ravindra Duddu

List of Publications by Year
in descending order

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37 papers	1,026 citations	471509 17 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	1009 citing authors

#	Article	IF	Citations
1	Numerical investigation of critical electrochemical factors for pitting corrosion using a multi-species reactive transport model. Corrosion Science, 2021, 179, 109130.	6.6	11
2	On the robustness of the stabilized finite element method for delamination analysis of composites using cohesive elements. International Journal for Computational Methods in Engineering Science and Mechanics, 2021, 22, 538-558.	2.1	2
3	A poro-damage phase field model for hydrofracturing of glacier crevasses. Extreme Mechanics Letters, 2021, 45, 101277.	4.1	18
4	A Generalized Interpolation Material Point Method for Shallow Ice Shelves. 2: Anisotropic Nonlocal Damage Mechanics and Rift Propagation. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002292.	3.8	6
5	A Generalized Interpolation Material Point Method for Shallow Ice Shelves. 1: Shallow Shelf Approximation and Ice Thickness Evolution. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002277.	3.8	2
6	An efficient second-order linear scheme for the phase field model of corrosive dissolution. Journal of Computational and Applied Mathematics, 2020, 367, 112472.	2.0	17
7	A space-time adaptive finite element method with exponential time integrator for the phase field model of pitting corrosion. Journal of Computational Physics, 2020, 406, 109191.	3.8	12
8	On the Effects of Constitutive Properties and Roughness of a Hard Inclusion in Soft Tissue on B-mode Images. Ultrasonic Imaging, 2020, 42, 159-176.	2.6	0
9	A non-local continuum poro-damage mechanics model for hydrofracturing of surface crevasses in grounded glaciers. Journal of Glaciology, 2020, 66, 415-429.	2.2	15
10	A sequential non-iterative approach for modeling multi-ionic species reactive transport during localized corrosion. Finite Elements in Analysis and Design, 2019, 166, 103318.	3.2	8
11	A stabilized finite element method for enforcing stiff anisotropic cohesive laws using interface elements. Computer Methods in Applied Mechanics and Engineering, 2019, 348, 1013-1038.	6.6	12
12	In vitro feasibility of next generation non-linear beamforming ultrasound methods to characterize and size kidney stones. Urolithiasis, 2019, 47, 181-188.	2.0	16
13	Mechanism of pore wetting in membrane distillation with alcohol vs. surfactant. Journal of Membrane Science, 2018, 559, 183-195.	8.2	109
14	On the evaluation of the stress intensity factor in calving models using linear elastic fracture mechanics. Journal of Glaciology, 2018, 64, 759-770.	2.2	17
15	Feasibility of non-linear beamforming ultrasound methods to characterize and size kidney stones. PLoS ONE, 2018, 13, e0203138.	2.5	3
16	Influence of multi-species solute transport on modeling of hydrated Portland cement leaching in strong nitrate solutions. Cement and Concrete Research, 2017, 100, 227-244.	11.0	14
17	An updated-Lagrangian damage mechanics formulation for modeling the creeping flow and fracture of ice sheets. Computer Methods in Applied Mechanics and Engineering, 2017, 313, 406-432.	6.6	15
18	Non-linear beamforming approaches for sizing and detecting large calcifications. , 2017, , .		2

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19	Non-linear beamforming approaches for sizing and detecting large calcifications. , 2017, , .		1
20	An Extended Finite Element Method Based Approach for Modeling Crevice and Pitting Corrosion. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	33
21	Modeling hydraulic fracture of glaciers using continuum damage mechanics. Journal of Glaciology, 2016, 62, 794-804.	2.2	29
22	On the parametric sensitivity of cohesive zone models for high-cycle fatigue delamination of composites. International Journal of Solids and Structures, 2016, 82, 111-124.	2.7	42
23	An Extended Finite Element Model of Crevice and Pitting Corrosion. , 2015, , .		3
24	A coupled Eulerianâ€“Lagrangian extended finite element formulation for simulating large deformations in hyperelastic media with moving free boundaries. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 280-302.	6.6	18
25	A discrete damage zone model for mixed-mode delamination of composites under high-cycle fatigue. International Journal of Fracture, 2014, 190, 53-74.	2.2	11
26	Numerical modeling of corrosion pit propagation using the combined extended finite element and level set method. Computational Mechanics, 2014, 54, 613-627.	4.0	66
27	A nonlocal continuum damage mechanics approach to simulation of creep fracture in ice sheets. Computational Mechanics, 2013, 51, 961-974.	4.0	65
28	Effects of elastic strain energy and interfacial stress on the equilibrium morphology of misfit particles in heterogeneous solids. Journal of the Mechanics and Physics of Solids, 2013, 61, 1433-1445.	4.8	50
29	On the continuum damage mechanics approach to modeling of polar ice fracture: a reply. Journal of Glaciology, 2013, 59, 799-801.	2.2	2
30	A numerical investigation of surface crevasse propagation in glaciers using nonlocal continuum damage mechanics. Geophysical Research Letters, 2013, 40, 3064-3068.	4.0	30
31	Creep events at the brittle ductile transition. Geochemistry, Geophysics, Geosystems, 2013, 14, 3334-3351.	2.5	34
32	Discrete damage zone model for fracture initiation and propagation. Engineering Fracture Mechanics, 2012, 92, 1-18.	4.3	35
33	A temperature dependent creep damage model for polycrystalline ice. Mechanics of Materials, 2012, 46, 23-41.	3.2	56
34	A finite strain Eulerian formulation for compressible and nearly incompressible hyperelasticity using highâ€order Bâ€spline finite elements. International Journal for Numerical Methods in Engineering, 2012, 89, 762-785.	2.8	39
35	Diffusional evolution of precipitates in elastic media using the extended finite element and the level set methods. Journal of Computational Physics, 2011, 230, 1249-1264.	3.8	36
36	A twoâ€dimensional continuum model of biofilm growth incorporating fluid flow and shear stress based detachment. Biotechnology and Bioengineering, 2009, 103, 92-104.	3.3	88

#	Article	IF	Citations
37	A combined extended finite element and level set method for biofilm growth. International Journal for Numerical Methods in Engineering, 2008, 74, 848-870.	2.8	109