

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	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
2	Mechanism of pore wetting in membrane distillation with alcohol vs. surfactant. Journal of Membrane Science, 2018, 559, 183-195.	8.2	109
3	A two-dimensional continuum model of biofilm growth incorporating fluid flow and shear stress based detachment. Biotechnology and Bioengineering, 2009, 103, 92-104.	3.3	88
4	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
5	A nonlocal continuum damage mechanics approach to simulation of creep fracture in ice sheets. Computational Mechanics, 2013, 51, 961-974.	4.0	65
6	A temperature dependent creep damage model for polycrystalline ice. Mechanics of Materials, 2012, 46, 23-41.	3.2	56
7	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
8	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
9	A finite strain Eulerian formulation for compressible and nearly incompressible hyperelasticity using high-order B-spline finite elements. International Journal for Numerical Methods in Engineering, 2012, 89, 762-785.	2.8	39
10	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
11	Discrete damage zone model for fracture initiation and propagation. Engineering Fracture Mechanics, 2012, 92, 1-18.	4.3	35
12	Creep events at the brittle ductile transition. Geochemistry, Geophysics, Geosystems, 2013, 14, 3334-3351.	2.5	34
13	An Extended Finite Element Method Based Approach for Modeling Crevice and Pitting Corrosion. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	33
14	A numerical investigation of surface crevasse propagation in glaciers using nonlocal continuum damage mechanics. Geophysical Research Letters, 2013, 40, 3064-3068.	4.0	30
15	Modeling hydraulic fracture of glaciers using continuum damage mechanics. Journal of Glaciology, 2016, 62, 794-804.	2.2	29
16	A coupled Eulerian-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
17	A poro-damage phase field model for hydrofracturing of glacier crevasses. Extreme Mechanics Letters, 2021, 45, 101277.	4.1	18
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	Numerical investigation of critical electrochemical factors for pitting corrosion using a multi-species reactive transport model. Corrosion Science, 2021, 179, 109130.	6.6	11
28	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
29	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
30	An Extended Finite Element Model of Crevice and Pitting Corrosion. , 2015, , .		3
31	Feasibility of non-linear beamforming ultrasound methods to characterize and size kidney stones. PLoS ONE, 2018, 13, e0203138.	2.5	3
32	On the continuum damage mechanics approach to modeling of polar ice fracture: a reply. Journal of Glaciology, 2013, 59, 799-801.	2.2	2
33	Non-linear beamforming approaches for sizing and detecting large calcifications. , 2017, , .		2
34	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
35	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
36	Non-linear beamforming approaches for sizing and detecting large calcifications. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	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