

Arif Masud

List of Publications by Year in descending order

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77
papers

2,063
citations

236833

25
h-index

254106

43
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78
all docs

78
docs citations

78
times ranked

1065
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational coupling of non-matching discretizations across finitely deforming fluid-structure interfaces. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 678-718.	0.9	5
2	Blood-artery interaction in calcified aortas and abdominal aortic aneurysms. <i>Extreme Mechanics Letters</i> , 2022, 54, 101684.	2.0	1
3	Mixture model for thermo-chemo-mechanical processes in fluid-infused solids. <i>International Journal of Engineering Science</i> , 2022, 174, 103576.	2.7	8
4	An elastic-elastoplastic model and embedded bounce-back control for layered printing with cementitious materials. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 5098-5125.	1.5	2
5	A Variational Multiscale method with immersed boundary conditions for incompressible flows. <i>Meccanica</i> , 2021, 56, 1397-1422.	1.2	7
6	Variationally derived interface stabilization for discrete multiphase flows and relation with the ghost-penalty method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113404.	3.4	9
7	Variationally derived closure models for large eddy simulation of incompressible turbulent flows. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 2089-2120.	0.9	2
8	Reduced mixture model and elastic response of chemically swollen solids: Application to Si oxidation and lithiation. <i>Applications in Engineering Science</i> , 2021, 6, 100039.	0.5	0
9	Synchronous and Concurrent Multidomain Computing Method for Cloud Computing Platforms. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, S565-S591.	1.3	2
10	Residual-based closure model for density-stratified incompressible turbulent flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 113931.	3.4	2
11	Weakly imposed boundary conditions for shear-rate dependent non-Newtonian fluids: application to cardiovascular flows. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 3855-3886.	1.0	4
12	Modeling of steep layers in singularly perturbed diffusion-reaction equation via flexible fine-scale basis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113343.	3.4	6
13	Interfacial coupling across incompatible meshes in a monolithic finite-strain thermomechanical formulation. <i>Computers and Mathematics With Applications</i> , 2020, 79, 3068-3091.	1.4	8
14	Chemo-mechanical coupling and material evolution in finitely deforming solids with advancing fronts of reactive fluids. <i>Acta Mechanica</i> , 2020, 231, 1933-1961.	1.1	6
15	Interfacial Fatigue and Discrete Interfacial Damage in a Finite Strain Thermomechanical Framework. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2043013.	1.5	1
16	Interface-Capturing Method for Free-Surface Plunging and Breaking Waves. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	1.6	18
17	Thermoelasticity at finite strains with weak and strong discontinuities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 1050-1084.	3.4	10
18	Interfacial stabilization at finite strains for weak and strong discontinuities in multi-constituent materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 328, 717-751.	3.4	18

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19	Chemo-mechanical coupling in curing and material-interphase evolution in multi-constituent materials. <i>Acta Mechanica</i> , 2018, 229, 3393-3414.	1.1	4
20	Variationally derived discontinuity capturing methods: Fine scale models with embedded weak and strong discontinuities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 340, 1102-1134.	3.4	12
21	B-Splines and NURBS Based Finite Element Methods for Strained Electronic Structure Calculations. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	1.1	6
22	Effect of an internal nonlinear rotational dissipative element on vortex shedding and vortex-induced vibration of a sprung circular cylinder. <i>Journal of Fluid Mechanics</i> , 2017, 828, 196-235.	1.4	31
23	Edge stabilization and consistent tying of constituents at Neumann boundaries in multi-constituent mixture models. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 110, 1142-1172.	1.5	8
24	Stabilized mixed three-field formulation for a generalized incompressible Oldroyd-B model. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 704-734.	0.9	13
25	A unified mixture formulation for density and volumetric growth of multi-constituent solids in tissue engineering. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 314, 222-268.	3.4	13
26	Time-Dependent Outflow Boundary Conditions for Blood Flow in the Arterial System. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2016, , 359-377.	0.4	2
27	Discontinuous Galerkin Method for Frictional Interface Dynamics. <i>Journal of Engineering Mechanics - ASCE</i> , 2016, 142, .	1.6	14
28	Finite strain primal interface formulation with consistently evolving stabilization. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 102, 278-315.	1.5	28
29	Hemodynamic Analysis in an Idealized Artery Tree: Differences in Wall Shear Stress between Newtonian and Non-Newtonian Blood Models. <i>PLoS ONE</i> , 2015, 10, e0124575.	1.1	47
30	On the algorithmic and implementational aspects of a Discontinuous Galerkin method at finite strains. <i>Computers and Mathematics With Applications</i> , 2015, 70, 1266-1289.	1.4	13
31	Residual-based turbulence models and arbitrary Lagrangian-Eulerian framework for free surface flows. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 2287-2317.	1.7	17
32	Primal interface formulation for coupling multiple PDEs: A consistent derivation via the Variational Multiscale method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 268, 194-224.	3.4	33
33	A heterogeneous modeling method for porous media flows. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 487-518.	0.9	13
34	A stabilized mixed finite element method for shear-rate dependent non-Newtonian fluids: 3D benchmark problems and application to blood flow in bifurcating arteries. <i>Computational Mechanics</i> , 2014, 53, 751-776.	2.2	26
35	Computational study of vortex-induced vibration of a sprung rigid circular cylinder with a strongly nonlinear internal attachment. <i>Journal of Fluids and Structures</i> , 2013, 40, 214-232.	1.5	30
36	A Discontinuous/continuous Galerkin method for modeling of interphase damage in fibrous composite systems. <i>Computational Mechanics</i> , 2013, 52, 499-514.	2.2	32

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37	Residual-based turbulence models for moving boundary flows: hierarchical application of variational multiscale method and three-level scale separation. International Journal for Numerical Methods in Fluids, 2013, 73, 284-305.	0.9	13
38	A framework for residual-based stabilization of incompressible finite elasticity: Stabilized formulations and overflow="scroll">< mml:mrow>< mml:mover accent="true">< mml:mrow>< mml:mi>F</mml:mi></mml:mrow>< mml:mrow>< mml:mo>Â</mml:mo></mml:mrow></mml:mover></mml:mrow></mml:math> methods for linear triangles and tetrahedra. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 359-399.	3.4	63
39	Residual-based variational multiscale turbulence models for unstructured tetrahedral meshes. Computer Methods in Applied Mechanics and Engineering, 2013, 254, 238-253.	3.4	22
40	Stabilized interface methods for mechanical joints: Physics-based models and variationally consistent embedding. International Journal of Solids and Structures, 2013, 50, 2132-2150.	1.3	8
41	Reduced-order model for laminar vortex-induced vibration of a rigid circular cylinder with an internal nonlinear absorber. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 1916-1930.	1.7	47
42	Vortex-Induced Vibration of a Sprung Rigid Circular Cylinder Augmented With a Nonlinear Energy Sink. , 2012, , .		0
43	A unified formulation for interface coupling and frictional contact modeling with embedded error estimation. International Journal for Numerical Methods in Engineering, 2012, 92, 141-177.	1.5	33
44	A variational multiscale a posteriori error estimation method for mixed form of nearly incompressible elasticity. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3453-3481.	3.4	32
45	A Parallel Implementation of ALE Moving Mesh Technique for FSI Problems using OpenMP. International Journal of Parallel Programming, 2011, 39, 717-745.	1.1	7
46	A stabilized mixed finite element method for the incompressible shear-rate dependent non-Newtonian fluids: Variational Multiscale framework and consistent linearization. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 577-596.	3.4	27
47	A heterogeneous multiscale modeling framework for hierarchical systems of partial differential equations. International Journal for Numerical Methods in Fluids, 2011, 65, 28-42.	0.9	12
48	A variational multiscale method for incompressible turbulent flows: Bubble functions and fine scale fields. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2577-2593.	3.4	45
49	A multiscale stabilized ALE formulation for incompressible flows with moving boundaries. Computational Mechanics, 2010, 46, 185-197.	2.2	60
50	A tribute to Thomas J.R. Hughes on the occasion of his 65th birthday. Computational Mechanics, 2010, 46, 1-2.	2.2	2
51	A three-field formulation for incompressible viscoelastic fluids. International Journal of Engineering Science, 2010, 48, 1413-1432.	2.7	20
52	Stabilized Finite Element Methods for the Schrödinger Wave Equation. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	1.1	4
53	A multiscale framework for computational nanomechanics: Application to the modeling of carbon nanotubes. International Journal for Numerical Methods in Engineering, 2009, 78, 863-882.	1.5	9
54	A variational multiscale stabilized formulation for the incompressible Navier-Stokes equations. Computational Mechanics, 2009, 44, 145-160.	2.2	51

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55	A stabilized finite element formulation for finite deformation elastoplasticity in geomechanics. Computers and Geotechnics, 2009, 36, 396-405.	2.3	24
56	A stabilized mixed finite element method for the first-order form of advection-diffusion equation. International Journal for Numerical Methods in Fluids, 2008, 57, 1321-1348.	0.9	21
57	A hierarchical multiscale framework for problems with multiscale source terms. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2692-2700.	3.4	26
58	A stabilized mixed finite element method for Darcy-Stokes flow. International Journal for Numerical Methods in Fluids, 2007, 54, 665-681.	0.9	23
59	A 3D adaptive mesh moving scheme. International Journal for Numerical Methods in Fluids, 2007, 54, 923-944.	0.9	31
60	An adaptive mesh rezoning scheme for moving boundary flows and fluid-structure interaction. Computers and Fluids, 2007, 36, 77-91.	1.3	99
61	Revisiting stabilized finite element methods for the advective-diffusive equation. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1560-1572.	3.4	82
62	A stabilized mixed discontinuous Galerkin method for Darcy flow. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 3347-3381.	3.4	83
63	A variational multiscale method for inelasticity: Application to superelasticity in shape memory alloys. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4512-4531.	3.4	30
64	A Multiscale/stabilized Formulation of the Incompressible Navier-Stokes Equations for Moving Boundary Flows and Fluid-structure Interaction. Computational Mechanics, 2006, 38, 403-416.	2.2	107
65	Effects of Mesh Motion on the Stability and Convergence of ALE Based Formulations for Moving Boundary Flows. Computational Mechanics, 2006, 38, 430-439.	2.2	34
66	Special Issue of Computational Mechanics on Stabilized, Multiscale and Multiphysics Methods. Computational Mechanics, 2006, 38, 293-293.	2.2	1
67	New Stabilized Finite Element Method Embedded with a Cap Model for the Analysis of Granular Materials. Journal of Engineering Mechanics - ASCE, 2006, 132, 250-259.	1.6	8
68	An elasto-plastic damage model cast in a co-rotational kinematic framework for large deformation analysis of laminated composite shells. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 2641-2660.	3.4	20
69	A Stabilized Mixed Finite Element Method for Nearly Incompressible Elasticity. Journal of Applied Mechanics, Transactions ASME, 2005, 72, 711-720.	1.1	51
70	A 3-D Model of Cold Drawing in Engineering Thermoplastics. Mechanics of Advanced Materials and Structures, 2005, 12, 457-469.	1.5	8
71	A stabilized mixed finite element method for Darcy flow. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4341-4370.	3.4	233
72	A multiplicative finite strain finite element framework for the modelling of semicrystalline polymers and polycarbonates. International Journal for Numerical Methods in Engineering, 2000, 47, 1887-1908.	1.5	10

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73	Three-Dimensional Corotational Framework for Elasto-Plastic Analysis of Multilayered Composite Shells. AIAA Journal, 2000, 38, 2320-2327.	1.5	15
74	Finite-Element Formulation for Analysis of Laminated Composites. Journal of Engineering Mechanics - ASCE, 1999, 125, 1115-1124.	1.6	20
75	Strength of composites with long-aligned fibers: fiber-fiber and fiber-crack interaction. Composites Part B: Engineering, 1998, 29, 577-588.	5.9	7
76	A space-time Galerkin/least-squares finite element formulation of the Navier-Stokes equations for moving domain problems. Computer Methods in Applied Mechanics and Engineering, 1997, 146, 91-126.	3.4	199
77	Dynamic analysis and drilling degrees of freedom. International Journal for Numerical Methods in Engineering, 1995, 38, 3193-3210.	1.5	17