Joachim Bluhm

List of Publications by Year
in descending order

34	174	1307594 7	1125743 13
papers	citations	h-index	g-index

34	34	34	147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical formulation and computational aspects of a two-scale homogenization scheme combining the TPM and FE<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1613" altimg="si2.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math> method for poro-elastic fluid-saturated porous media. International Journal of Solids and Structures, 2022, 241, 111412.	2.7	7
2	Investigations on modeling of freezing processes within the framework of the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000251.	0.2	0
3	Freezing of sea ice with an inhomogeneous material distribution using the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
4	Modeling of freezing processes of ice floes within the framework of the TPM. Acta Mechanica, 2020, 231, 3099-3121.	2.1	4
5	ELASTO-PLASTIC PHASE-FIELD MODEL OF HYDRAULIC FRACTURE IN SATURATED BINARY POROUS MEDIA. International Journal for Multiscale Computational Engineering, 2019, 17, 201-221.	1.2	9
6	Modeling the actuation and sensing behavior of an IPMC within the framework of the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900324.	0.2	0
7	A mixed leastâ€squares finite element formulation within the framework of the theory of porous media. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900357.	0.2	1
8	Application of Artificial Neural Network accelerating a porous media FE 2 homogenization scheme. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900381.	0.2	0
9	On efficient computation of 3â€d simulation within TPM 2 â€Framework. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800332.	0.2	0
10	Modeling and simulation of electro-chemomechanical behavior of ionic polymer-metal composites within the framework of the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 565-566.	0.2	0
11	Microstructural influence on macroscopic response regarding fluid flow through porous media applying TPM2-Method. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 577-578.	0.2	3
12	Modeling of Extrinsic and Autonomous Selfâ€Healing phenomena within the Framework of the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 431-432.	0.2	0
13	A thermodynamical consistent model for modeling of ionic electroactive polymers (EAPs) within the framework of the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 485-486.	0.2	0
14	Remarks on coupled multiâ€scale simulations and high performance computation. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 511-512.	0.2	0
15	Modeling of thermo-electro-mechanical coupling effects in ionic electroactive polymers within the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 425-426.	0.2	0
16	Validation of a coupled FE-model for the simulation of methane oxidation via thermal imaging. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 433-434.	0.2	2
17	A two-scale homogenisation approach for fluid saturated porous media based on TPM and FE2-Method. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 447-448.	0.2	2
18	Continuum Mechanical Description of an Extrinsic and Autonomous Self-Healing Material Based on the Theory of Porous Media. Advances in Polymer Science, 2015, , 143-184.	0.8	2

#	Article	IF	Citations
19	Modeling of Self-Healing phenomena in a Polymer matrix within the Framework of the Theory of Porous Media. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 471-472.	0.2	0
20	A coupled multi-component approach for bacterial methane oxidation in landfill cover layers. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 469-470.	0.2	2
21	Bacterial methane oxidation in landfill cover layers - a coupled FE multiphase description. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 193-194.	0.2	2
22	FE-Analysis of concentration dependent healing processes in a polymer matrix. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 219-220.	0.2	1
23	Modeling of Healing Processes in a Polymer Matrix. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 357-358.	0.2	0
24	Simulation of Freezing and Thawing Processes with Capillary Effects in fluid filled porous media. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 365-366.	0.2	0
25	Phase transition in methane oxidation layers - a coupled FE multiphase description. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 371-372.	0.2	1
26	Simulation of Capillary Effects and Phase Transition under Freezing and Thawing Load in Liquid and Gas Saturated Porous Media. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 455-456.	0.2	0
27	Ice Formation in Porous Media. Lecture Notes in Applied and Computational Mechanics, 2011, , 153-174.	2.2	11
28	Remodeling and growth of living tissue: a multiphase theory. Archive of Applied Mechanics, 2010, 80, 453-465.	2.2	37
29	Modeling fluid saturated porous media under frost attack. GAMM Mitteilungen, 2010, 33, 40-56.	5.5	14
30	Simulation of freeze-thaw-cycles in liquid- and gas saturated porous media. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 359-360.	0.2	0
31	Freezing and thawing processes in porous media - Experiment and Simulation. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 387-388.	0.2	1
32	A triphasic model of transversely isotropic biological tissue with applications to stress and biologically induced growth. Computational Materials Science, 2007, 39, 124-136.	3.0	45
33	Modeling of ice formation in porous solids with regard to the description of frost damage. Computational Materials Science, 2005, 32, 407-417.	3.0	20
34	Phase Transitions in Gas- and Liquid-Saturated Porous Solids. Transport in Porous Media, 1999, 34, 249-267.	2.6	9