

Ralf JÄönicke

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1828792/publications.pdf>

Version: 2024-02-01

46
papers

537
citations

759233

12
h-index

642732

23
g-index

47
all docs

47
docs citations

47
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Model Reduction with error estimation for computational homogenization of non-linear consolidation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114334.	6.6	5
2	Combining spectral and POD modes to improve error estimation of numerical model reduction for porous media. <i>Computational Mechanics</i> , 2022, 69, 767-786.	4.0	0
3	Computational modelling of structural batteries accounting for stress-assisted convection in the electrolyte. <i>International Journal of Solids and Structures</i> , 2022, 238, 111343.	2.7	12
4	Efficient Two-Scale Modeling of Porous Media Using Numerical Model Reduction with Fully Computable Error Bounds. , 2022, , 121-129.		0
5	Computational homogenization of the electrochemically coupled multi-scale transport of Li ⁺ ions in structural battery electrolytes. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000138.	0.2	1
6	Modeling and computational homogenization of chloride diffusion in three-phase meso-scale concrete. <i>Construction and Building Materials</i> , 2021, 271, 121558.	7.2	7
7	Computational homogenisation of phase-field fracture. <i>European Journal of Mechanics, A/Solids</i> , 2021, 88, 104247.	3.7	19
8	Variationally consistent computational homogenization of chemomechanical problems with stabilized weakly periodic boundary conditions. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 6429-6454.	2.8	5
9	Computational aspects of the weak micro-periodicity saddle point problem. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000259.	0.2	0
10	Diffuse interface modeling and variationally consistent homogenization of fluid transport in fractured porous media. <i>European Journal of Mechanics, A/Solids</i> , 2020, 84, 104067.	3.7	10
11	A posteriori error estimation for numerical model reduction in computational homogenization of porous media. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 5350-5380.	2.8	6
12	Performance of bicontinuous structural electrolytes. <i>Multifunctional Materials</i> , 2020, 3, 025001.	3.7	32
13	A poro-viscoelastic substitute model of fine-scale poroelasticity obtained from homogenization and numerical model reduction. <i>Computational Mechanics</i> , 2020, 65, 1063-1083.	4.0	10
14	Identification of viscoelastic properties from numerical model reduction of pressure diffusion in fluid-saturated porous rock with fractures. <i>Computational Mechanics</i> , 2019, 63, 49-67.	4.0	9
15	Viscoelastic substitute models for seismic attenuation caused by squirt flow and fracture leak off. <i>Geophysics</i> , 2019, 84, WA183-WA189.	2.6	3
16	Reduced order modeling of viscoelastic properties of asphalt concrete. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800240.	0.2	0
17	Numerical Investigation of the Effective Skempton Coefficient in Porous Rock Containing Fluid-Filled Fracture Networks. , 2017, , .		0
18	Computational generation of statistical volume elements of biphasic asphalt concrete and its material behavior. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017, 17, 485-486.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Numerical investigation of the effective Skempton coefficient in fluid-saturated fractured rock. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 541-542.	0.2	0
20	Computational Homogenization of Seismic Attenuation in Fractured Rock. , 2017, , .		0
21	Nonlinear modeling and computational homogenization of asphalt concrete on the basis of XRCT scans. Construction and Building Materials, 2016, 109, 96-108.	7.2	33
22	Continuum modeling of the swelling behavior of concrete when modified through superabsorbent polymers. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 475-476.	0.2	0
23	Numerical investigation of seismic attenuation in fluid-saturated fractured media: An extended view of the Skempton coefficient. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 471-472.	0.2	1
24	Numerical identification of a viscoelastic substitute model for heterogeneous poroelastic media by a reduced order homogenization approach. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 108-120.	6.6	19
25	Energy dissipation of P- and S-waves in fluid-saturated rocks: An overview focusing on hydraulically connected fractures. Journal of Earth Science (Wuhan, China), 2015, 26, 785-790.	3.2	8
26	Numerical homogenization of mesoscopic loss in poroelastic media. European Journal of Mechanics, A/Solids, 2015, 49, 382-395.	3.7	47
27	Numerical modeling and laboratory measurements of seismic attenuation in partially saturated rock. Geophysics, 2014, 79, L13-L20.	2.6	28
28	Sensitivity of S-wave attenuation to the connectivity of fractures in fluid-saturated rocks. Geophysics, 2014, 79, WB15-WB24.	2.6	62
29	Asphalt concrete: From μ CT scans towards multiscale modelling of effective properties. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 543-544.	0.2	0
30	Multi-scale modelling of elastic/viscoelastic compounds. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2013, 93, 126-137.	1.6	18
31	Effects of fracture connectivity on S-wave attenuation caused by wave-induced fluid flow. , 2013, , .		0
32	MICROMORPHIC TWO-SCALE MODELLING OF PERIODIC GRID STRUCTURES. International Journal for Multiscale Computational Engineering, 2013, 11, 161-176.	1.2	11
33	Bituminous asphalt concrete: Aspects on scale-bridging. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 333-334.	0.2	0
34	Microscale Investigations of Highfrequency Wave Propagation Through Highly Porous Media. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 555-556.	0.2	1
35	Digital material laboratory: Wave propagation effects in open-cell aluminium foams. International Journal of Engineering Science, 2012, 58, 115-123.	5.0	7
36	Wave propagation in periodic microstructures by homogenisation of extended continua. Computational Materials Science, 2012, 52, 209-211.	3.0	7

#	ARTICLE	IF	CITATIONS
37	EVALUATION OF GENERALIZED CONTINUUM SUBSTITUTION MODELS FOR HETEROGENEOUS MATERIALS. International Journal for Multiscale Computational Engineering, 2012, 10, 527-549.	1.2	65
38	Minimal loading conditions for higher-order numerical homogenisation schemes. Archive of Applied Mechanics, 2012, 82, 1075-1088.	2.2	23
39	Relaxed loading conditions for higher order homogenisation approaches. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 947-950.	0.2	0
40	On Dirichlet boundary conditions in second-order FE2-schemes. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 423-424.	0.2	0
41	Numerical investigations of foam-like materials by nested high-order finite element methods. Computational Mechanics, 2009, 45, 45-59.	4.0	21
42	Two-scale modelling of micromorphic continua. Continuum Mechanics and Thermodynamics, 2009, 21, 297-315.	2.2	57
43	A numerical homogenisation strategy for micromorphic continua. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 437-438.	0.2	3
44	Investigations on an elastic micropolar continuum model for large deformations. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10549-10550.	0.2	0
45	Numerical homogenization of foam-like structures based on the FE2-approach. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10573-10574.	0.2	0
46	Effective properties and size effects in filled polymers. GAMM Mitteilungen, 2008, 31, 210-224.	5.5	5