

Stefan Frei

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

235
citations

1163117

8
h-index

1058476

14
g-index

22
all docs

22
docs citations

22
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	Eulerian time-stepping schemes for the non-stationary Stokes equations on time-dependent domains. <i>Numerische Mathematik</i> , 2022, 150, 423-478.	1.9	8
2	A mechanically consistent model for fluid-structure interactions with contact including seepage. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 392, 114637.	6.6	7
3	Falling balls in a viscous fluid with contact: Comparing numerical simulations with experimental data. <i>Physics of Fluids</i> , 2021, 33, .	4.0	17
4	LocModFE: Locally modified finite elements for approximating interface problems in deal.II. <i>Software Impacts</i> , 2021, 8, 100070.	1.4	3
5	3D-2D Stokes-Darcy Coupling for the Modelling of Seepage with an Application to Fluid-Structure Interaction with Contact. <i>Lecture Notes in Computational Science and Engineering</i> , 2021, , 215-223.	0.3	1
6	On temporal homogenization in the numerical simulation of atherosclerotic plaque growth. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	2
7	Weak Imposition of Signorini Boundary Conditions on the Boundary Element Method. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 2334-2350.	2.3	2
8	A Nitsche-based formulation for fluid-structure interactions with contact. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 531-564.	1.9	25
9	Efficient Approximation of Flow Problems With Multiple Scales in Time. <i>Multiscale Modeling and Simulation</i> , 2020, 18, 942-969.	1.6	13
10	An edge-based pressure stabilization technique for finite elements on arbitrarily anisotropic meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 89, 407-429.	1.6	7
11	An Adaptive Newton Algorithm for Optimal Control Problems with Application to Optimal Electrode Design. <i>Journal of Optimization Theory and Applications</i> , 2018, 177, 498-534.	1.5	6
12	Finite element simulation of fluid dynamics and CO ₂ gas exchange in the alveolar sacs of the human lung. <i>Computational and Applied Mathematics</i> , 2018, 37, 6410-6432.	1.3	4
13	A second order time-stepping scheme for parabolic interface problems with moving interfaces. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017, 51, 1539-1560.	1.9	14
14	3. An accurate Eulerian approach for fluid-structure interactions. , 2017, , 69-126.		3
15	Long-term simulation of large deformation, mechano-chemical fluid-structure interactions in ALE and fully Eulerian coordinates. <i>Journal of Computational Physics</i> , 2016, 321, 874-891.	3.8	31
16	Optimizing fiber orientation in fiber-reinforced materials using efficient upscaling. <i>Computational Optimization and Applications</i> , 2015, 62, 111-129.	1.6	5
17	Eulerian Techniques for Fluid-Structure Interactions: Part II Applications. <i>Lecture Notes in Computational Science and Engineering</i> , 2015, , 755-762.	0.3	7
18	A Locally Modified Parametric Finite Element Method for Interface Problems. <i>SIAM Journal on Numerical Analysis</i> , 2014, 52, 2315-2334.	2.3	43

#	ARTICLE	IF	CITATIONS
19	Towards a complete numerical description of lubricant film dynamics in ball bearings. Computational Mechanics, 2014, 53, 239-255.	4.0	11
20	A priori error estimates for the finite element discretization of optimal distributed control problems governed by the biharmonic operator. Calcolo, 2013, 50, 165-193.	1.1	10