

# Markus Bause

## List of Publications by Year in descending order

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20  
papers

211  
citations

1040056

9  
h-index

996975

15  
g-index

21  
all docs

21  
docs citations

21  
times ranked

128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Ultrasonic Guided Wave Propagation in Fluid-Structure and Their Interface under Uncertainty Using Machine Learning. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	2.9	2
2	C1-conforming variational discretization of the biharmonic wave equation. <i>Computers and Mathematics With Applications</i> , 2022, 119, 208-219.	2.7	0
3	Higher order Galerkin-collocation time discretization with Nitsche's method for the Navier-Stokes equations. <i>Mathematics and Computers in Simulation</i> , 2021, 189, 141-162.	4.4	7
4	A higher order fictitious domain method for the Navier-Stokes equations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000038.	0.2	0
5	Numerical convergence of discrete extensions in a space-time finite element, fictitious domain method for the Navier-Stokes equations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	1
6	Galerkin-collocation approximation in time for the wave equation and its post-processing. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 2099-2123.	1.9	7
7	Numerical Study of Galerkin-Collocation Approximation in Time for the Wave Equation. <i>Trends in Mathematics</i> , 2020, , 15-36.	0.1	4
8	Comparative study of continuously differentiable Galerkin time discretizations for the wave equation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019, 19, e201900144.	0.2	2
9	Error analysis for discretizations of parabolic problems using continuous finite elements in time and mixed finite elements in space. <i>Numerische Mathematik</i> , 2017, 137, 773-818.	1.9	16
10	Finite Element Approximation of Fluid-Structure Interaction with Coupled Wave Propagation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017, 17, 511-512.	0.2	4
11	Iterative Coupling of Variational Space-Time Methods for Biot's System of Poroelasticity. <i>Lecture Notes in Computational Science and Engineering</i> , 2016, , 143-151.	0.3	1
12	Variational time discretization for mixed finite element approximations of nonstationary diffusion problems. <i>Journal of Computational and Applied Mathematics</i> , 2015, 289, 208-224.	2.0	10
13	Variational Space-Time Methods for the Wave Equation. <i>Journal of Scientific Computing</i> , 2014, 61, 424-453.	2.3	32
14	Higher order finite element approximation of systems of convection-diffusion-reaction equations with small diffusion. <i>Journal of Computational and Applied Mathematics</i> , 2013, 246, 52-64.	2.0	17
15	Optimal order convergence of a modified BDM1 mixed finite element scheme for reactive transport in porous media. <i>Advances in Water Resources</i> , 2012, 35, 163-171.	3.8	18
16	Analysis of stabilized higher-order finite element approximation of nonstationary and nonlinear convection-diffusion-reaction equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 209-212, 184-196.	6.6	27
17	First-order convergence of multi-point flux approximation on triangular grids and comparison with mixed finite element methods. <i>Numerische Mathematik</i> , 2010, 116, 1-29.	1.9	10
18	Higher and lowest order mixed finite element approximation of subsurface flow problems with solutions of low regularity. <i>Advances in Water Resources</i> , 2008, 31, 370-382.	3.8	17

#	ARTICLE	IF	CITATIONS
19	On optimal convergence rates for higher-order Navier–Stokes approximations. I. Error estimates for the spatial discretization. IMA Journal of Numerical Analysis, 2005, 25, 812-841.	2.9	9
20	Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. Computing and Visualization in Science, 2004, 7, 61-78.	1.2	27