

# Markus Bause

## List of Publications by Year in descending order

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papers

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citations

1040056

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g-index

21  
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docs citations

21  
times ranked

128  
citing authors

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

#	ARTICLE	IF	CITATIONS
19	A higher order fictitious domain method for the Navier-Stokes equations. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000038.	0.2	0
20	C1-conforming variational discretization of the biharmonic wave equation. Computers and Mathematics With Applications, 2022, 119, 208-219.	2.7	0