

Laurent Mertz

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

70
citations

1684188

5
h-index

1588992

8
g-index

13
all docs

13
docs citations

13
times ranked

28
citing authors

#	ARTICLE	IF	CITATIONS
1	An Ultra Weak Finite Element Method as an Alternative to a Monte Carlo Method for an Elasto-Plastic Problem with Noise. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 3374-3396.	2.3	16
2	An empirical study on plastic deformations of an elasto-plastic problem with noise. <i>Probabilistic Engineering Mechanics</i> , 2012, 30, 60-69.	2.7	10
3	Stochastic dynamics of fluid-structure interaction in turbulent thermal convection. <i>Journal of Fluid Mechanics</i> , 2018, 854, .	3.4	10
4	An analytic approach to the ergodic theory of a stochastic variational inequality. <i>Comptes Rendus Mathematique</i> , 2012, 350, 365-370.	0.3	8
5	Long cycle behavior of the plastic deformation of an elasto-perfectly-plastic oscillator with noise. <i>Comptes Rendus Mathematique</i> , 2012, 350, 853-859.	0.3	7
6	Degenerate Dirichlet problems related to the ergodic property of an elasto-plastic oscillator excited by a filtered white noise. <i>IMA Journal of Applied Mathematics</i> , 2015, 80, 1387-1408.	1.6	4
7	Asymptotic formulae for the risk of failure related to an elasto-plastic problem with noise. <i>Asymptotic Analysis</i> , 2017, 106, 47-60.	0.5	4
8	Penalization of a stochastic variational inequality modeling an elasto-plastic problem with noise. <i>ESAIM Proceedings and Surveys</i> , 2015, 48, 226-247.	0.4	3
9	Penalization of Nonsmooth Dynamical Systems with Noise: Ergodicity and Asymptotic Formulae for Threshold Crossings Probabilities. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019, 18, 853-880.	1.6	3
10	Numerical analysis of degenerate Kolmogorov equations of constrained stochastic Hamiltonian systems. <i>Computers and Mathematics With Applications</i> , 2019, 78, 2719-2733.	2.7	2
11	Asymptotic analysis of stochastic variational inequalities modeling an elasto-plastic problem with vanishing jumps. <i>Asymptotic Analysis</i> , 2012, 80, 171-187.	0.5	1
12	A Feynman-Kac formula approach for computing expectations and threshold crossing probabilities of non-smooth stochastic dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2019, 397, 25-38.	2.8	1
13	A Control Variate Method Driven by Diffusion Approximation. <i>Communications on Pure and Applied Mathematics</i> , 2022, 75, 455-492.	3.1	1