Laurent Mertz

List of Publications by Year
in descending order

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