

# Ondrej Rokos

## List of Publications by Year in descending order

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24  
papers

256  
citations

1163117

8  
h-index

996975

15  
g-index

25  
all docs

25  
docs citations

25  
times ranked

214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of multiscale computational strategies for materials with discrete microstructures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 382, 113883.	6.6	4
2	Learning constitutive models from microstructural simulations via a non-intrusive reduced basis method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113924.	6.6	9
3	A Newton solver for micromorphic computational homogenization enabling multiscale buckling analysis of pattern-transforming metamaterials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113333.	6.6	11
4	The Peierls–Nabarro finite element model in two-phase microstructures – A comparison with atomistic. <i>Mechanics of Materials</i> , 2020, 150, 103555.	3.2	4
5	Experimental full-field analysis of size effects in miniaturized cellular elastomeric metamaterials. <i>Materials and Design</i> , 2020, 193, 108684.	7.0	9
6	Extended micromorphic computational homogenization for mechanical metamaterials exhibiting multiple geometric pattern transformations. <i>Extreme Mechanics Letters</i> , 2020, 37, 100708.	4.1	10
7	Level Set-Based Extended Finite Element Modeling of the Response of Fibrous Networks Under Hygroscopic Swelling. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	7
8	Reduced integration schemes in micromorphic computational homogenization of elastomeric mechanical metamaterials. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020, 7, .	1.7	7
9	Correction of Scanning Electron Microscope Imaging Artifacts in a Novel Digital Image Correlation Framework. <i>Experimental Mechanics</i> , 2019, 59, 489-516.	2.0	33
10	Micromorphic computational homogenization for mechanical metamaterials with patterning fluctuation fields. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 123, 119-137.	4.8	45
11	On micromechanical parameter identification with integrated DIC and the role of accuracy in kinematic boundary conditions. <i>International Journal of Solids and Structures</i> , 2018, 146, 241-259.	2.7	12
12	MOLECULAR STATICS SIMULATION OF NANOINDENTATION USING ADAPTIVE QUASICONTINUUM METHOD. <i>Acta Polytechnica CTU Proceedings</i> , 2018, 15, 57-62.	0.3	2
13	Size effects in nonlinear periodic materials exhibiting reversible pattern transformations. <i>Mechanics of Materials</i> , 2018, 124, 55-70.	3.2	16
14	An adaptive variational Quasicontinuum methodology for lattice networks with localized damage. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 174-200.	2.8	13
15	eXtended variational quasicontinuum methodology for lattice networks with damage and crack propagation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 320, 769-792.	6.6	8
16	Modelling of Synchronized Jumping Crowds on Grandstands. <i>Procedia Engineering</i> , 2017, 190, 645-652.	1.2	0
17	On random spatial distribution of active crowds on grandstands and their effects on dynamic response. <i>Procedia Engineering</i> , 2017, 199, 2838-2843.	1.2	1
18	Human-Induced Loads on Grandstands as Non-Stationary Gaussian Processes. <i>Applied Mechanics and Materials</i> , 2016, 837, 191-197.	0.2	2

#	ARTICLE	IF	CITATIONS
19	A variational formulation of dissipative quasicontinuum methods. International Journal of Solids and Structures, 2016, 102-103, 214-229.	2.7	18
20	Localization analysis of an energy-based fourth-order gradient plasticity model. European Journal of Mechanics, A/Solids, 2016, 55, 256-277.	3.7	8
21	Higher-order quasicontinuum methods for elastic and dissipative lattice models: uniaxial deformation and pure bending. GAMM Mitteilungen, 2015, 38, 344-368.	5.5	19
22	The response of grandstands driven by filtered Gaussian white noise processes. Advances in Engineering Software, 2014, 72, 85-94.	3.8	10
23	Localization analysis of variationally based gradient plasticity model. International Journal of Solids and Structures, 2013, 50, 256-269.	2.7	8
24	The Response of a SDOF System Driven by a Periodic Random Force. Advanced Materials Research, 0, 1144, 153-158.	0.3	0