

Louis Foucard

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

285
citations

840776

11
h-index

996975

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17
all docs

17
docs citations

17
times ranked

312
citing authors

#	ARTICLE	IF	CITATIONS
1	Remotely Triggered Locomotion of Hydrogel Mag-bots in Confined Spaces. <i>Scientific Reports</i> , 2017, 7, 16178.	3.3	38
2	Mechanical hysteresis in actin networks. <i>Soft Matter</i> , 2018, 14, 2052-2058.	2.7	32
3	An XFEM-based numerical strategy to model mechanical interactions between biological cells and a deformable substrate. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 92, 238-267.	2.8	24
4	Mechanics and stability of vesicles and droplets in confined spaces. <i>Physical Review E</i> , 2016, 94, 062613.	2.1	24
5	A thermodynamical model for stress-fiber organization in contractile cells. <i>Applied Physics Letters</i> , 2012, 100, 13702-137024.	3.3	23
6	Separating the contributions of zona pellucida and cytoplasm in the viscoelastic response of human oocytes. <i>Acta Biomaterialia</i> , 2019, 85, 253-262.	8.3	23
7	The Chain Distribution Tensor: Linking Nonlinear Rheology and Chain Anisotropy in Transient Polymers. <i>Polymers</i> , 2018, 10, 848.	4.5	20
8	A coupled Eulerian-Lagrangian extended finite element formulation for simulating large deformations in hyperelastic media with moving free boundaries. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 280-302.	6.6	18
9	The Effective Permeability of Cracks and Interfaces in Porous Media. <i>Transport in Porous Media</i> , 2012, 93, 815-829.	2.6	17
10	A theoretical treatment on the mechanics of interfaces in deformable porous media. <i>International Journal of Solids and Structures</i> , 2011, 48, 3129-3141.	2.7	15
11	Simultaneous cell traction and growth measurements using light. <i>Journal of Biophotonics</i> , 2019, 12, e201800182.	2.3	14
12	Cooperative buckling and the nonlinear mechanics of nematic semiflexible networks. <i>Nonlinearity</i> , 2015, 28, R89-R112.	1.4	9
13	An XFEM-based numerical asymptotic expansion for simulating a Stokes flow near a sharp corner. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 102, 79-98.	2.8	9
14	A particle-based moving interface method (PMIM) for modeling the large deformation of boundaries in soft matter systems. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 107, 923-946.	2.8	8
15	Bridging the Scales to Explore Cellular Adaptation and Remodeling. <i>BioNanoScience</i> , 2011, 1, 110-115.	3.5	7
16	Folding sticky elastica: dynamics and reversibility of folds in Langmuir monolayers. <i>Soft Matter</i> , 2017, 13, 6730-6742.	2.7	0