

Simone Dussi

List of Publications by Year in descending order

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21
papers

700
citations

623734

14
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the cholesteric pitch of apolar cellulose nanocrystal suspensions using a chiral hard-bundle model. <i>Journal of Chemical Physics</i> , 2022, 156, 014904.	3.0	17
2	Stretchy and disordered: Toward understanding fracture in soft network materials via mesoscopic computer simulations. <i>Journal of Chemical Physics</i> , 2022, 156, 160901.	3.0	8
3	Less can be more: Insights on the role of electrode microstructure in redox flow batteries from two-dimensional direct numerical simulations. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
4	Sharing the Load: Stress Redistribution Governs Fracture of Polymer Double Networks. <i>Macromolecules</i> , 2021, 54, 8563-8574.	4.8	13
5	On the Origin of Sintering Resistance and Catalyst Accessibility in Raspberry-templated Catalyst Design. <i>Advanced Functional Materials</i> , 2021, 31, 2106876.	14.9	10
6	The role of temperature in the rigidity-controlled fracture of elastic networks. <i>Soft Matter</i> , 2020, 16, 9975-9985.	2.7	4
7	Connectivity and plasticity determine collagen network fracture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8326-8334.	7.1	44
8	Athermal Fracture of Elastic Networks: How Rigidity Challenges the Unavoidable Size-Induced Brittleness. <i>Physical Review Letters</i> , 2020, 124, 018002.	7.8	15
9	Microscopic insights into the failure of elastic double networks. <i>Physical Review Materials</i> , 2020, 4, .	2.4	5
10	Stress management in composite biopolymer networks. <i>Nature Physics</i> , 2019, 15, 549-553.	16.7	53
11	Hard Competition: Stabilizing the Elusive Biaxial Nematic Phase in Suspensions of Colloidal Particles with Extreme Lengths. <i>Physical Review Letters</i> , 2018, 120, 177801.	7.8	25
12	Laser Speckle Strain Imaging reveals the origin of delayed fracture in a soft solid. <i>Science Advances</i> , 2018, 4, eaar1926.	10.3	38
13	On the stability and finite-size effects of a columnar phase in single-component systems of hard-rod-like particles. <i>Molecular Physics</i> , 2018, 116, 2792-2805.	1.7	18
14	Density functional theory and simulations of colloidal triangular prisms. <i>Journal of Chemical Physics</i> , 2017, 146, 124905.	3.0	16
15	Connectedness percolation of hard deformed rods. <i>Journal of Chemical Physics</i> , 2017, 147, 224904.	3.0	16
16	Phase diagrams of charged colloidal rods: Can a uniaxial charge distribution break chiral symmetry?. <i>Journal of Chemical Physics</i> , 2016, 144, 094901.	3.0	17
17	Entropy-driven formation of chiral nematic phases by computer simulations. <i>Nature Communications</i> , 2016, 7, 11175.	12.8	72
18	Phase diagram of binary colloidal rod-sphere mixtures from a 3D real-space analysis of sedimentation-diffusion equilibria. <i>Soft Matter</i> , 2016, 12, 9238-9245.	2.7	25

#	ARTICLE	IF	CITATIONS
19	Cholesterics of colloidal helices: Predicting the macroscopic pitch from the particle shape and thermodynamic state. <i>Journal of Chemical Physics</i> , 2015, 142, 074905.	3.0	50
20	Entropy-driven formation of large icosahedral colloidal clusters by spherical confinement. <i>Nature Materials</i> , 2015, 14, 56-60.	27.5	237
21	On the gas-liquid phase separation and the self-assembly of charged soft dumbbells. <i>Molecular Physics</i> , 2013, 111, 3608-3617.	1.7	14