Simone Dussi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5028334/publications.pdf

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21	700	623734	713466
papers	citations	14 h-index	21 g-index

22	22	22	1147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entropy-driven formation of large icosahedral colloidal clusters by spherical confinement. Nature Materials, 2015, 14, 56-60.	27.5	237
2	Entropy-driven formation of chiral nematic phases by computer simulations. Nature Communications, 2016, 7, 11175.	12.8	72
3	Stress management in composite biopolymer networks. Nature Physics, 2019, 15, 549-553.	16.7	53
4	Cholesterics of colloidal helices: Predicting the macroscopic pitch from the particle shape and thermodynamic state. Journal of Chemical Physics, 2015, 142, 074905.	3.0	50
5	Connectivity and plasticity determine collagen network fracture. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8326-8334.	7.1	44
6	Laser Speckle Strain Imaging reveals the origin of delayed fracture in a soft solid. Science Advances, 2018, 4, eaar1926.	10.3	38
7	Phase diagram of binary colloidal rod-sphere mixtures from a 3D real-space analysis of sedimentationâ€“diffusion equilibria. Soft Matter, 2016, 12, 9238-9245.	2.7	25
8	Hard Competition: Stabilizing the Elusive Biaxial Nematic Phase in Suspensions of Colloidal Particles with Extreme Lengths. Physical Review Letters, 2018, 120, 177801.	7.8	25
9	On the stability and finite-size effects of a columnar phase in single-component systems of hard-rod-like particles. Molecular Physics, 2018, 116, 2792-2805.	1.7	18
10	Phase diagrams of charged colloidal rods: Can a uniaxial charge distribution break chiral symmetry?. Journal of Chemical Physics, 2016, 144, 094901.	3.0	17
11	Modeling the cholesteric pitch of apolar cellulose nanocrystal suspensions using a chiral hard-bundle model. Journal of Chemical Physics, 2022, 156, 014904.	3.0	17
12	Density functional theory and simulations of colloidal triangular prisms. Journal of Chemical Physics, 2017, 146, 124905.	3.0	16
13	Connectedness percolation of hard deformed rods. Journal of Chemical Physics, 2017, 147, 224904.	3.0	16
14	Athermal Fracture of Elastic Networks: How Rigidity Challenges the Unavoidable Size-Induced Brittleness. Physical Review Letters, 2020, 124, 018002.	7.8	15
15	On the gasâ€“liquid phase separation and the self-assembly of charged soft dumbbells. Molecular Physics, 2013, 111, 3608-3617.	1.7	14
16	Sharing the Load: Stress Redistribution Governs Fracture of Polymer Double Networks. Macromolecules, 2021, 54, 8563-8574.	4.8	13
17	On the Origin of Sinterâ€Resistance and Catalyst Accessibility in Raspberryâ€Colloidâ€Templated Catalyst Design. Advanced Functional Materials, 2021, 31, 2106876.	14.9	10
18	Stretchy and disordered: Toward understanding fracture in soft network materials via mesoscopic computer simulations. Journal of Chemical Physics, 2022, 156, 160901.	3.0	8

#	Article	IF	Citations
19	Microscopic insights into the failure of elastic double networks. Physical Review Materials, 2020, 4, .	2.4	5
20	The role of temperature in the rigidity-controlled fracture of elastic networks. Soft Matter, 2020, 16, 9975-9985.	2.7	4
21	Less can be more: Insights on the role of electrode microstructure in redox flow batteries from two-dimensional direct numerical simulations. Physics of Fluids, 2022, 34, .	4.0	3