Alessandro Patti

List of Publications by Year
in descending order

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50 papers	886 citations	430874 18 h-index	526287 27 g-index
51 all docs	51 docs citations	51 times ranked	716 citing authors

#	Article	IF	Citations
1	Microrheology of colloidal suspensions via dynamic Monte Carlo simulations. Journal of Colloid and Interface Science, 2022, 605, 182-192.	9.4	7
2	Long-time relaxation dynamics in nematic and smectic liquid crystals of soft repulsive colloidal rods. Physical Review E, 2022, 105, 014703.	2.1	2
3	Structural relaxation dynamics of colloidal nanotrimers. Physical Review E, 2022, 106, .	2.1	1
4	Fast Overlap Detection between Hard-Core Colloidal Cuboids and Spheres. The OCSI Algorithm. Algorithms, 2021, 14, 72.	2.1	5
5	Nonconventional Phases of Colloidal Nanorods with a Soft Corona. Physical Review Letters, 2021, 126, 158001.	7.8	8
6	Molecular Dynamics of Janus Nanodimers Dispersed in Lamellar Phases of a Block Copolymer. Polymers, 2021, 13, 1524.	4.5	6
7	Polymer-induced microcolony compaction in early biofilms: A computer simulation study. Physical Review E, 2021, 103, 052407.	2.1	5
8	Dynamics of uniaxial-to-biaxial nematics switching in suspensions of hard cuboids. Physics of Fluids, 2021, 33, 067115.	4.0	5
9	Diffusion of globular macromolecules in liquid crystals of colloidal cuboids. Journal of Molecular Liquids, 2021, 338, 116640.	4.9	9
10	Dynamics of colloidal cubes and cuboids in cylindrical nanopores. Physics of Fluids, 2021, 33, .	4.0	9
11	Helicoidal dynamics of biaxial curved rods in twist-bend nematic phases unveiled by unsupervised machine learning techniques. Physical Review E, 2020, 102, 040601.	2.1	15
12	Dynamics of hard colloidal cuboids in nematic liquid crystals. Physical Review E, 2020, 101, 052702.	2.1	14
13	Self-assembly of freely-rotating polydisperse cuboids: unveiling the boundaries of the biaxial nematic phase. Soft Matter, 2020, 16, 5565-5570.	2.7	15
14	Dynamic Monte Carlo simulations of inhomogeneous colloidal suspensions. Physical Review E, 2020, 102, 013302.	2.1	14
15	Self-diffusion of glycerol in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si25.svg"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math>-alumina nanopores. The neglected role of pore saturation in the dynamics of confined polyalcohols. Applied Surface Science, 2020, 516, 146089.	6.1	6
16	Solvent-induced morphological transitions in methacrylate-based block-copolymer aggregates. Journal of Colloid and Interface Science, 2020, 572, 133-140.	9.4	9
17	Transferable coarse-grained MARTINI model for methacrylate-based copolymers. Molecular Systems Design and Engineering, 2019, 4, 186-198.	3.4	13
18	Phase evolution during one-pot synthesis of amine modified mesoporous silica materials: Preparation, properties, carbon dioxide adsorption. Applied Surface Science, 2019, 476, 886-896.	6.1	15

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19	Brownian dynamics simulations of oblate and prolate colloidal particles in nematic liquid crystals. Journal of Chemical Physics, 2019, 150, 204905.	3.0	10
20	Biaxial nematics of hard cuboids in an external field. Soft Matter, 2019, 15, 1922-1926.	2.7	13
21	Monte Carlo simulation of binary mixtures of hard colloidal cuboids. Molecular Simulation, 2018, 44, 516-522.	2.0	19
22	Fickian yet non-Gaussian diffusion is not ubiquitous in soft matter. Physical Review E, 2018, 98, .	2.1	24
23	Dynamic Monte Carlo algorithm for out-of-equilibrium processes in colloidal dispersions. Physical Chemistry Chemical Physics, 2018, 20, 15118-15127.	2.8	19
24	Unveiling the impact of nanoparticle size dispersity on the behavior of polymer nanocomposites. Polymer, 2017, 113, 92-104.	3.8	32
25	Phase behaviour of hard board-like particles. Soft Matter, 2017, 13, 4720-4732.	2.7	31
26	Fundamental Investigation of the Drying of Solid Suspensions. Industrial & Engineering Chemistry Research, 2017, 56, 10506-10513.	3.7	37
27	Modeling the Effect of Polymer Chain Stiffness on the Behavior of Polymer Nanocomposites. Journal of Physical Chemistry B, 2017, 121, 6245-6256.	2.6	25
28	Effective short-range Coulomb correction to model the aggregation behavior of ionic surfactants. Journal of Chemical Physics, 2016, 144, 234904.	3.0	4
29	Equivalence of Brownian dynamics and dynamic Monte Carlo simulations in multicomponent colloidal suspensions. Physical Review E, 2015, 92, 022302.	2.1	34
30	Molecular Dynamics of Spherical Nanoparticles in Dense Polymer Melts. Journal of Physical Chemistry B, 2014, 118, 3731-3742.	2.6	32
31	Modeling the aggregation behavior of amphiphiles in the continuous phase of highly concentrated emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 437, 90-100.	4.7	1
32	New insights on the mechanisms of drug release from highly concentrated emulsions. Journal of Colloid and Interface Science, 2013, 394, 337-345.	9.4	9
33	Frustration of the Isotropic-Columnar Phase Transition of Colloidal Hard Platelets by a Transient Cubatic Phase. Physical Review Letters, 2012, 108, 206101.	7.8	22
34	Brownian dynamics and dynamic Monte Carlo simulations of isotropic and liquid crystal phases of anisotropic colloidal particles: A comparative study. Physical Review E, 2012, 86, 011403.	2.1	64
35	Diffusion in highly concentrated emulsions. Current Opinion in Colloid and Interface Science, 2012, 17, 255-260.	7.4	8
36	Solvent-Free Model for Self-Assembling Amphiphilic Cyclodextrins. An Off-Lattice Monte Carlo Approach in Two Dimensions. Journal of Physical Chemistry B, 2012, 116, 2687-2695.	2.6	4

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37	Relaxation dynamics in the columnar liquid crystal phase of hard platelets. Soft Matter, 2011, 7, 3533.	2.7	27
38	Polydispersity Stabilizes Biaxial Nematic Liquid Crystals. Physical Review Letters, 2011, 107, 148303.	7.8	54
39	Monte Carlo simulations of self-assembling star-block copolymers in dilute solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 361, 81-89.	4.7	18
40	Heterogeneous dynamics in columnar liquid crystals of parallel hard rods. Journal of Chemical Physics, 2010, 133, 154514.	3.0	20
41	Non-Gaussian dynamics in smectic liquid crystals of parallel hard rods. Physical Review E, 2010, 81, 021704.	2.1	24
42	Collective diffusion of colloidal hard rods in smectic liquid crystals: Effect of particle anisotropy. Journal of Chemical Physics, 2010, 132, 224907.	3.0	29
43	Stringlike Clusters and Cooperative Interlayer Permeation in Smectic Liquid Crystals Formed by Colloidal Rods. Physical Review Letters, 2009, 103, 248304.	7.8	46
44	Do Multilayer Crystals Nucleate in Suspensions of Colloidal Rods?. Physical Review Letters, 2009, 102, 128301.	7.8	30
45	One-pot synthesis of amino functionalized mesoporous silica materials: using simulations to understand transitions between different structures. Journal of Materials Chemistry, 2009, 19, 724-732.	6.7	19
46	Monte Carlo simulations of self-assembling hexagonal and cage-like bifunctional periodic mesoporous materials. Journal of Materials Chemistry, 2009, 19, 7848.	6.7	15
47	Molecular simulation study on the structure of templated porous materials obtained from different inorganic precursors. Studies in Surface Science and Catalysis, 2007, 160, 495-502.	1.5	3
48	Modelling the synthesis of periodic mesoporous silicas. Studies in Surface Science and Catalysis, 2007, 170, 1652-1659.	1.5	0
49	Phase Behavior of Model Surfactants in the Presence of Hybrid Particles. Journal of Physical Chemistry C, 2007, 111, 16035-16044.	3.1	21
50	Monte Carlo Simulation of Self-Assembled Ordered Hybrid Materials. Langmuir, 2007, 23, 6771-6780.	3.5	33