

# 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	Brownian dynamics and dynamic Monte Carlo simulations of isotropic and liquid crystal phases of anisotropic colloidal particles: A comparative study. <i>Physical Review E</i> , 2012, 86, 011403.	2.1	64
2	Polydispersity Stabilizes Biaxial Nematic Liquid Crystals. <i>Physical Review Letters</i> , 2011, 107, 148303.	7.8	54
3	Stringlike Clusters and Cooperative Interlayer Permeation in Smectic Liquid Crystals Formed by Colloidal Rods. <i>Physical Review Letters</i> , 2009, 103, 248304.	7.8	46
4	Fundamental Investigation of the Drying of Solid Suspensions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 10506-10513.	3.7	37
5	Equivalence of Brownian dynamics and dynamic Monte Carlo simulations in multicomponent colloidal suspensions. <i>Physical Review E</i> , 2015, 92, 022302.	2.1	34
6	Monte Carlo Simulation of Self-Assembled Ordered Hybrid Materials. <i>Langmuir</i> , 2007, 23, 6771-6780.	3.5	33
7	Molecular Dynamics of Spherical Nanoparticles in Dense Polymer Melts. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3731-3742.	2.6	32
8	Unveiling the impact of nanoparticle size dispersity on the behavior of polymer nanocomposites. <i>Polymer</i> , 2017, 113, 92-104.	3.8	32
9	Phase behaviour of hard board-like particles. <i>Soft Matter</i> , 2017, 13, 4720-4732.	2.7	31
10	Do Multilayer Crystals Nucleate in Suspensions of Colloidal Rods?. <i>Physical Review Letters</i> , 2009, 102, 128301.	7.8	30
11	Collective diffusion of colloidal hard rods in smectic liquid crystals: Effect of particle anisotropy. <i>Journal of Chemical Physics</i> , 2010, 132, 224907.	3.0	29
12	Relaxation dynamics in the columnar liquid crystal phase of hard platelets. <i>Soft Matter</i> , 2011, 7, 3533.	2.7	27
13	Modeling the Effect of Polymer Chain Stiffness on the Behavior of Polymer Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6245-6256.	2.6	25
14	Non-Gaussian dynamics in smectic liquid crystals of parallel hard rods. <i>Physical Review E</i> , 2010, 81, 021704.	2.1	24
15	Fickian yet non-Gaussian diffusion is not ubiquitous in soft matter. <i>Physical Review E</i> , 2018, 98, .	2.1	24
16	Frustration of the Isotropic-Columnar Phase Transition of Colloidal Hard Platelets by a Transient Cubatic Phase. <i>Physical Review Letters</i> , 2012, 108, 206101.	7.8	22
17	Phase Behavior of Model Surfactants in the Presence of Hybrid Particles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16035-16044.	3.1	21
18	Heterogeneous dynamics in columnar liquid crystals of parallel hard rods. <i>Journal of Chemical Physics</i> , 2010, 133, 154514.	3.0	20

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19	One-pot synthesis of amino functionalized mesoporous silica materials: using simulations to understand transitions between different structures. <i>Journal of Materials Chemistry</i> , 2009, 19, 724-732.	6.7	19
20	Monte Carlo simulation of binary mixtures of hard colloidal cuboids. <i>Molecular Simulation</i> , 2018, 44, 516-522.	2.0	19
21	Dynamic Monte Carlo algorithm for out-of-equilibrium processes in colloidal dispersions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15118-15127.	2.8	19
22	Monte Carlo simulations of self-assembling star-block copolymers in dilute solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 361, 81-89.	4.7	18
23	Monte Carlo simulations of self-assembling hexagonal and cage-like bifunctional periodic mesoporous materials. <i>Journal of Materials Chemistry</i> , 2009, 19, 7848.	6.7	15
24	Phase evolution during one-pot synthesis of amine modified mesoporous silica materials: Preparation, properties, carbon dioxide adsorption. <i>Applied Surface Science</i> , 2019, 476, 886-896.	6.1	15
25	Helicoidal dynamics of biaxial curved rods in twist-bend nematic phases unveiled by unsupervised machine learning techniques. <i>Physical Review E</i> , 2020, 102, 040601.	2.1	15
26	Self-assembly of freely-rotating polydisperse cuboids: unveiling the boundaries of the biaxial nematic phase. <i>Soft Matter</i> , 2020, 16, 5565-5570.	2.7	15
27	Dynamics of hard colloidal cuboids in nematic liquid crystals. <i>Physical Review E</i> , 2020, 101, 052702.	2.1	14
28	Dynamic Monte Carlo simulations of inhomogeneous colloidal suspensions. <i>Physical Review E</i> , 2020, 102, 013302.	2.1	14
29	Transferable coarse-grained MARTINI model for methacrylate-based copolymers. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 186-198.	3.4	13
30	Biaxial nematics of hard cuboids in an external field. <i>Soft Matter</i> , 2019, 15, 1922-1926.	2.7	13
31	Brownian dynamics simulations of oblate and prolate colloidal particles in nematic liquid crystals. <i>Journal of Chemical Physics</i> , 2019, 150, 204905.	3.0	10
32	New insights on the mechanisms of drug release from highly concentrated emulsions. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 337-345.	9.4	9
33	Solvent-induced morphological transitions in methacrylate-based block-copolymer aggregates. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 133-140.	9.4	9
34	Diffusion of globular macromolecules in liquid crystals of colloidal cuboids. <i>Journal of Molecular Liquids</i> , 2021, 338, 116640.	4.9	9
35	Dynamics of colloidal cubes and cuboids in cylindrical nanopores. <i>Physics of Fluids</i> , 2021, 33, .	4.0	9
36	Diffusion in highly concentrated emulsions. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 255-260.	7.4	8

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37	Nonconventional Phases of Colloidal Nanorods with a Soft Corona. <i>Physical Review Letters</i> , 2021, 126, 158001.	7.8	8
38	Microrheology of colloidal suspensions via dynamic Monte Carlo simulations. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 182-192.	9.4	7
39	Self-diffusion of glycerol in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si25.svg" \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle l^3 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle \text{-alumina nanopores. The neglected role of pore saturation in the dynamics of confined polyalcohols. Applied Surface Science, 2020, 516, 146089.$	6.1	6
40	Molecular Dynamics of Janus Nanodimers Dispersed in Lamellar Phases of a Block Copolymer. <i>Polymers</i> , 2021, 13, 1524.	4.5	6
41	Fast Overlap Detection between Hard-Core Colloidal Cuboids and Spheres. The OCSI Algorithm. <i>Algorithms</i> , 2021, 14, 72.	2.1	5
42	Polymer-induced microcolony compaction in early biofilms: A computer simulation study. <i>Physical Review E</i> , 2021, 103, 052407.	2.1	5
43	Dynamics of uniaxial-to-biaxial nematics switching in suspensions of hard cuboids. <i>Physics of Fluids</i> , 2021, 33, 067115.	4.0	5
44	Solvent-Free Model for Self-Assembling Amphiphilic Cyclodextrins. An Off-Lattice Monte Carlo Approach in Two Dimensions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2687-2695.	2.6	4
45	Effective short-range Coulomb correction to model the aggregation behavior of ionic surfactants. <i>Journal of Chemical Physics</i> , 2016, 144, 234904.	3.0	4
46	Molecular simulation study on the structure of templated porous materials obtained from different inorganic precursors. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 495-502.	1.5	3
47	Long-time relaxation dynamics in nematic and smectic liquid crystals of soft repulsive colloidal rods. <i>Physical Review E</i> , 2022, 105, 014703.	2.1	2
48	Modeling the aggregation behavior of amphiphiles in the continuous phase of highly concentrated emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 437, 90-100.	4.7	1
49	Structural relaxation dynamics of colloidal nanotrimers. <i>Physical Review E</i> , 2022, 106, .	2.1	1
50	Modelling the synthesis of periodic mesoporous silicas. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 1652-1659.	1.5	0