

Angelo Cacciuto

List of Publications by Year in descending order

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62
papers

3,914
citations

172443

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118840

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63
all docs

63
docs citations

63
times ranked

3888
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain Boundary Scars and Spherical Crystallography. <i>Science</i> , 2003, 299, 1716-1718.	12.6	442
2	Onset of heterogeneous crystal nucleation in colloidal suspensions. <i>Nature</i> , 2004, 428, 404-406.	27.8	355
3	Clusters of Charged Janus Spheres. <i>Nano Letters</i> , 2006, 6, 2510-2514.	9.1	321
4	Phase separation and rotor self-assembly in active particle suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4052-4057.	7.1	258
5	Clusters of Amphiphilic Colloidal Spheres. <i>Langmuir</i> , 2008, 24, 621-625.	3.5	251
6	Crystalline Order on a Sphere and the Generalized Thomson Problem. <i>Physical Review Letters</i> , 2002, 89, 185502.	7.8	156
7	Force Barriers for Membrane Tube Formation. <i>Physical Review Letters</i> , 2005, 94, 068101.	7.8	137
8	Fluid Membranes Can Drive Linear Aggregation of Adsorbed Spherical Nanoparticles. <i>Physical Review Letters</i> , 2012, 108, 118101.	7.8	121
9	Living Clusters and Crystals from Low-Density Suspensions of Active Colloids. <i>Physical Review Letters</i> , 2013, 111, 245702.	7.8	121
10	Phase diagram of Hertzian spheres. <i>Journal of Chemical Physics</i> , 2009, 131, 044514.	3.0	119
11	Self-Avoiding Flexible Polymers under Spherical Confinement. <i>Nano Letters</i> , 2006, 6, 901-905.	9.1	118
12	Mechanism of Membrane Tube Formation Induced by Adhesive Nanocomponents. <i>Physical Review Letters</i> , 2012, 109, 188101.	7.8	112
13	Confinement-Driven Translocation of a Flexible Polymer. <i>Physical Review Letters</i> , 2006, 96, 238104.	7.8	96
14	An Active Approach to Colloidal Self-Assembly. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 59-79.	10.8	91
15	Anomalous thermomechanical properties of a self-propelled colloidal fluid. <i>Physical Review E</i> , 2014, 89, 052303.	2.1	90
16	Activity-induced collapse and reexpansion of rigid polymers. <i>Physical Review E</i> , 2014, 90, 062312.	2.1	81
17	Universal Negative Poisson Ratio of Self-Avoiding Fixed-Connectivity Membranes. <i>Physical Review Letters</i> , 2001, 87, 148103.	7.8	78
18	Hierarchical self-assembly of asymmetric amphiphatic spherical colloidal particles. <i>Physical Review E</i> , 2009, 80, 021404.	2.1	68

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19	Curvature-induced activation of a passive tracer in an active bath. <i>Physical Review E</i> , 2014, 90, 032309.	2.1	68
20	Self-assembly of nanoparticles adsorbed on fluid and elastic membranes. <i>Soft Matter</i> , 2013, 9, 6677.	2.7	67
21	The role of particle shape in active depletion. <i>Journal of Chemical Physics</i> , 2014, 141, 194901.	3.0	65
22	Fluctuation-Driven Anisotropic Assembly in Nanoscale Systems. <i>Nano Letters</i> , 2013, 13, 2732-2737.	9.1	57
23	Two-dimensional packing of soft particles and the soft generalized Thomson problem. <i>Soft Matter</i> , 2011, 7, 7552.	2.7	51
24	Breakdown of Classical Nucleation Theory near Isostructural Phase Transitions. <i>Physical Review Letters</i> , 2004, 93, 166105.	7.8	48
25	Solid-liquid interfacial free energy of small colloidal hard-sphere crystals. <i>Journal of Chemical Physics</i> , 2003, 119, 7467-7470.	3.0	42
26	Quantitative analogy between polymer-grafted nanoparticles and patchy particles. <i>Soft Matter</i> , 2015, 11, 793-797.	2.7	36
27	Micro-phase separation in two dimensional suspensions of self-propelled spheres and dumbbells. <i>Soft Matter</i> , 2016, 12, 555-561.	2.7	34
28	Persistent Multiexcitons from Polymers with Pendent Pentacenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9564-9569.	13.7	31
29	Activity-Enhanced Self-Assembly of a Colloidal Kagome Lattice. <i>Journal of the American Chemical Society</i> , 2019, 141, 2500-2507.	13.7	30
30	Reshaping Elastic Nanotubes via Self-Assembly of Surface-Adhesive Nanoparticles. <i>Physical Review Letters</i> , 2011, 106, 045702.	7.8	20
31	Self-assembly of active amphiphilic Janus particles. <i>New Journal of Physics</i> , 2017, 19, 125014.	2.9	20
32	Surface Fluctuations Dominate the Slow Glassy Dynamics of Polymer-Grafted Colloid Assemblies. <i>ACS Central Science</i> , 2018, 4, 1179-1184.	11.3	20
33	Particle self-assembly on soft elastic shells. <i>Soft Matter</i> , 2011, 7, 1874-1878.	2.7	19
34	Anomalous dynamics of an elastic membrane in an active fluid. <i>Physical Review E</i> , 2015, 92, 012314.	2.1	19
35	Activity-assisted self-assembly of colloidal particles. <i>Physical Review E</i> , 2016, 94, 022607.	2.1	19
36	The coil-globule transition in self-avoiding active polymers. <i>Soft Matter</i> , 2021, 17, 160-164.	2.7	18

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37	Stresses Inside Critical Nuclei. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6587-6594.	2.6	17
38	Free energy of alternating two-component polymer brushes on cylindrical templates. <i>Journal of Chemical Physics</i> , 2011, 135, 244902.	3.0	17
39	Soft elastic surfaces as a platform for particle self-assembly. <i>Soft Matter</i> , 2011, 7, 8324.	2.7	16
40	Deviations from Blob Scaling Theory for Active Brownian Filaments Confined Within Cavities. <i>Physical Review Letters</i> , 2019, 123, 087802.	7.8	16
41	Influence of Nanostructure on the Exciton Dynamics of Multichromophore Donor-acceptor Block Copolymers. <i>ACS Nano</i> , 2017, 11, 4593-4598.	14.6	15
42	Hierarchical collective motion of a mixture of active dipolar Janus particles and passive charged colloids in two dimensions. <i>Physical Review E</i> , 2018, 97, 022603.	2.1	15
43	Effective Elasticity of a Flexible Filament Bound to a Deformable Cylindrical Surface. <i>Physical Review Letters</i> , 2010, 104, 226101.	7.8	14
44	Packing of Soft Asymmetric Dumbbells. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7182-7189.	2.6	13
45	Exploiting classical nucleation theory for reverse self-assembly. <i>Journal of Chemical Physics</i> , 2010, 133, 234108.	3.0	12
46	Phase separation of mixed polymer brushes on surfaces with nonuniform curvature. <i>Journal of Chemical Physics</i> , 2013, 139, 194902.	3.0	11
47	Colloidal swimmers near curved and structured walls. <i>Soft Matter</i> , 2019, 15, 8290-8301.	2.7	10
48	Crystallization of hard aspherical particles. <i>Journal of Chemical Physics</i> , 2010, 132, 134901.	3.0	8
49	Phase behavior of repulsive polymer-tethered colloids. <i>Journal of Chemical Physics</i> , 2010, 132, 014901.	3.0	8
50	On the phase behavior of hard aspherical particles. <i>Journal of Chemical Physics</i> , 2010, 133, 234903.	3.0	7
51	Lipid membrane-assisted condensation and assembly of amphiphilic Janus particles. <i>Soft Matter</i> , 2016, 12, 9151-9157.	2.7	7
52	Active sculpting of colloidal crystals. <i>Journal of Chemical Physics</i> , 2019, 150, 134505.	3.0	7
53	Free Energy of Multiple Overlapping Chains. <i>Physical Review Letters</i> , 2011, 107, 278302.	7.8	6
54	Translocation of a globular polymer through a hairy pore. <i>Journal of Molecular Liquids</i> , 2018, 265, 603-610.	4.9	6

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55	Packaging of a Polyelectrolyte into a Neutral Spherical Cavity. <i>Macromolecules</i> , 2009, 42, 4874-4877.	4.8	5
56	Universal reshaping of arrested colloidal gels via active doping. <i>Journal of Chemical Physics</i> , 2020, 153, 084901.	3.0	5
57	Effective forces between active polymers. <i>Physical Review E</i> , 2022, 105, 034503.	2.1	5
58	Dynamics of an active semi-flexible filament in a spherical cavity. <i>Journal of Chemical Physics</i> , 2019, 151, 244904.	3.0	4
59	Collapsing nanoparticle-laden nanotubes. <i>Soft Matter</i> , 2013, 9, 8881.	2.7	3
60	Designing active colloidal folders. <i>Journal of Chemical Physics</i> , 2022, 156, 094901.	3.0	3
61	Translocation of polymers out of confined geometries. <i>Computer Physics Communications</i> , 2007, 177, 150-153.	7.5	2
62	The Renormalization Group and Its Finite Lattice Approximations. <i>Journal of Statistical Physics</i> , 1999, 97, 541-574.	1.2	0