

# Davide Bochicchio

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

2,412  
citations

201575

27  
h-index

206029

48  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological instability of core-shell metallic nanoparticles. <i>Physical Review B</i> , 2013, 87, .	1.1	209
2	Transition from core-shell to Janus chemical configuration for bimetallic nanoparticles. <i>Nanoscale</i> , 2012, 4, 3381.	2.8	163
3	Self-Sorted, Random, and Block Supramolecular Copolymers via Sequence Controlled, Multicomponent Self-Assembly. <i>Journal of the American Chemical Society</i> , 2020, 142, 7606-7617.	6.6	151
4	Size-Dependent Transition to High-Symmetry Chiral Structures in AgCu, AgCo, AgNi, and AuNi Nanoalloys. <i>Nano Letters</i> , 2010, 10, 4211-4216.	4.5	141
5	Competition between Icosahedral Motifs in AgCu, AgNi, and AgCo Nanoalloys: A Combined Atomistic-DFT Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26405-26413.	1.5	124
6	A Block Supramolecular Polymer and Its Kinetically Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2018, 140, 10570-10577.	6.6	112
7	Into the Dynamics of a Supramolecular Polymer at Submolecular Resolution. <i>Nature Communications</i> , 2017, 8, 147.	5.8	106
8	MARTINI Coarse-Grained Models of Polyethylene and Polypropylene. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8209-8216.	1.2	82
9	From Cooperative Self-Assembly to Water-Soluble Supramolecular Polymers Using Coarse-Grained Simulations. <i>ACS Nano</i> , 2017, 11, 1000-1011.	7.3	82
10	Monolayer-Protected Anionic Au Nanoparticles Walk into Lipid Membranes Step by Step. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3175-3179.	2.1	79
11	Molecular photoswitches mediating the strain-driven disassembly of supramolecular tubules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11850-11855.	3.3	70
12	Biomimetic Synthesis of Sub-20 nm Covalent Organic Frameworks in Water. <i>Journal of the American Chemical Society</i> , 2020, 142, 3540-3547.	6.6	68
13	Au Nanoparticles in Lipid Bilayers: A Comparison between Atomistic and Coarse-Grained Models. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10927-10935.	1.5	61
14	Calculating the free energy of transfer of small solutes into a model lipid membrane: Comparison between metadynamics and umbrella sampling. <i>Journal of Chemical Physics</i> , 2015, 143, 144108.	1.2	57
15	Interaction of hydrophobic polymers with model lipid bilayers. <i>Scientific Reports</i> , 2017, 7, 6357.	1.6	56
16	<i>Swarm-CG</i>: Automatic Parametrization of Bonded Terms in MARTINI-Based Coarse-Grained Models of Simple to Complex Molecules <i>via</i> Fuzzy Self-Tuning Particle Swarm Optimization. <i>ACS Omega</i> , 2020, 5, 32823-32843.	1.6	49
17	Living supramolecular polymerization of fluorinated cyclohexanes. <i>Nature Communications</i> , 2021, 12, 3134.	5.8	49
18	How Defects Control the Out-of-Equilibrium Dissipative Evolution of a Supramolecular Tubule. <i>ACS Nano</i> , 2019, 13, 4322-4334.	7.3	48

#	ARTICLE	IF	CITATIONS
19	Tuning the Structure of Nanoparticles by Small Concentrations of Impurities. <i>Chemistry of Materials</i> , 2014, 26, 3354-3356.	3.2	44
20	Supramolecular Copolymerization as a Strategy to Control the Stability of Self-Assembled Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6843-6847.	7.2	44
21	Structure and thermal stability of AgCu chiral nanoparticles. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	43
22	Molecular modelling of supramolecular polymers. <i>Advances in Physics: X</i> , 2018, 3, 1436408.	1.5	42
23	Crystalline Cyclophane-Protein Cage Frameworks. <i>ACS Nano</i> , 2018, 12, 8029-8036.	7.3	39
24	From isodesmic to highly cooperative: reverting the supramolecular polymerization mechanism in water by fine monomer design. <i>Chemical Communications</i> , 2018, 54, 4112-4115.	2.2	35
25	Identifying and Tracking Defects in Dynamic Supramolecular Polymers. <i>Journal of Physical Chemistry B</i> , 2020, 124, 589-599.	1.2	35
26	Aggregation in Colloidal Suspensions: Evaluation of the Role of Hydrodynamic Interactions by Means of Numerical Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14509-14517.	1.2	32
27	Chemical ordering in magic-size Ag-Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26478-26484.	1.3	28
28	Aggregation kinetics and gel formation in modestly concentrated suspensions of oppositely charged model ceramic colloids: a numerical study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1431-1439.	1.3	26
29	Competition between structural motifs in gold-platinum nanoalloys. <i>Computational and Theoretical Chemistry</i> , 2013, 1021, 177-182.	1.1	25
30	Effect of Concentration on the Supramolecular Polymerization Mechanism via Implicit-Solvent Coarse-Grained Simulations of Water-Soluble 1,3,5-Benzenetricarboxamide. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3813-3819.	2.1	25
31	The Membrane Bending Modulus in Experiments and Simulations. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2016, , 117-143.	0.3	24
32	Structures and segregation patterns of Ag-Cu and Ag-Ni nanoalloys adsorbed on MgO(0 0 1). <i>Journal of Physics Condensed Matter</i> , 2016, 28, 064005.	0.7	23
33	Amphiphilic gold nanoparticles perturb phase separation in multidomain lipid membranes. <i>Nanoscale</i> , 2020, 12, 19746-19759.	2.8	23
34	How the Dynamics of a Supramolecular Polymer Determines Its Dynamic Adaptivity and Stimuli-Responsiveness: Structure-Dynamics-Property Relationships From Coarse-Grained Simulations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4169-4178.	1.2	21
35	Controlling Exchange Pathways in Dynamic Supramolecular Polymers by Controlling Defects. <i>ACS Nano</i> , 2021, 15, 14229-14241.	7.3	19
36	Three-Dimensional Directionality Is a Pivotal Structural Feature for the Bioactivity of Azabisphosphonate-Capped Poly(PhosphorHydrazone) Nanodrug Dendrimers. <i>Biomacromolecules</i> , 2018, 19, 712-720.	2.6	18

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37	Symbiotic Self-Assembly Strategy toward Lipid-Encased Cross-Linked Polymer Nanoparticles for Efficient Gene Silencing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24971-24983.	4.0	18
38	Polystyrene perturbs the structure, dynamics, and mechanical properties of DPPC membranes: An experimental and computational study. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 110-119.	5.0	15
39	Insights into the Kinetics of Supramolecular Comonomer Incorporation in Water. <i>Macromolecules</i> , 2019, 52, 3049-3055.	2.2	14
40	Amphiphilic nanoparticles generate curvature in lipid membranes and shape liposome–liposome interfaces. <i>Nanoscale</i> , 2021, 13, 16879-16884.	2.8	13
41	Heteroaggregation of ceramic colloids in suspensions. <i>Advances in Physics: X</i> , 2017, 2, 35-53.	1.5	12
42	Supramolecular Copolymerization as a Strategy to Control the Stability of Self-Assembled Nanofibers. <i>Angewandte Chemie</i> , 2018, 130, 6959-6963.	1.6	12
43	Cholesterol Hinders the Passive Uptake of Amphiphilic Nanoparticles into Fluid Lipid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8583-8590.	2.1	12
44	Computation of shear viscosity of colloidal suspensions by SRD-MD. <i>Journal of Chemical Physics</i> , 2015, 142, 144101.	1.2	11
45	Kinetically driven ordered phase formation in binary colloidal crystals. <i>Physical Review E</i> , 2013, 87, 022304.	0.8	9
46	Ion-bridges and lipids drive aggregation of same-charge nanoparticles on lipid membranes. <i>Nanoscale</i> , 2022, 14, 6912-6921.	2.8	9
47	Nitrobenzoxadiazole-Appended Cell Membrane Modifiers for Efficient Optoporation with Noncoherent Light. <i>Bioconjugate Chemistry</i> , 2018, 29, 2068-2073.	1.8	8
48	Toward Chemotactic Supramolecular Nanoparticles: From Autonomous Surface Motion Following Specific Chemical Gradients to Multivalency-Controlled Disassembly. <i>ACS Nano</i> , 2021, 15, 16149-16161.	7.3	6
49	Compact and ordered colloidal clusters from assembly–disassembly cycles: A numerical study. <i>Journal of Colloid and Interface Science</i> , 2015, 440, 198-203.	5.0	5
50	Amphiphilic Gold Nanoparticles: A Biomimetic Tool to Gain Mechanistic Insights into Peptide-Lipid Interactions. <i>Membranes</i> , 2022, 12, 673.	1.4	5
51	Study of the B1-B2 transition in colloidal clusters. <i>Journal of Chemical Physics</i> , 2014, 140, 024911.	1.2	4
52	Discordant Supramolecular Fibres Reversibly Depolymerised by Temperature and Light. <i>Chemistry - A European Journal</i> , 2021, 27, 1829-1838.	1.7	3
53	Aggregation of binary colloidal suspensions on attractive walls. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3073-3079.	1.3	1