

Angel J Moreno

List of Publications by Year in descending order

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105
papers

3,440
citations

109137

35
h-index

161609

54
g-index

107
all docs

107
docs citations

107
times ranked

2091
citing authors

#	ARTICLE	IF	CITATIONS
1	How Far Are Single-Chain Polymer Nanoparticles in Solution from the Globular State?. ACS Macro Letters, 2014, 3, 767-772.	2.3	152
2	Model for Reversible Colloidal Gelation. Physical Review Letters, 2005, 94, 218301.	2.9	143
3	Endowing Single-Chain Polymer Nanoparticles with Enzyme-Mimetic Activity. ACS Macro Letters, 2013, 2, 775-779.	2.3	129
4	Michael-Nanocarriers Mimicking Transient-Binding Disordered Proteins. ACS Macro Letters, 2013, 2, 491-495.	2.3	106
5	Relaxation scenarios in a mixture of large and small spheres: Dependence on the size disparity. Journal of Chemical Physics, 2006, 125, 164507.	1.2	91
6	Anomalous dynamic arrest in a mixture of large and small particles. Physical Review E, 2006, 74, 021409.	0.8	90
7	Advantages of Orthogonal Folding of Single Polymer Chains to Soft Nanoparticles. Macromolecules, 2013, 46, 9748-9759.	2.2	89
8	Gel to glass transition in simulation of a valence-limited colloidal system. Journal of Chemical Physics, 2006, 124, 124908.	1.2	85
9	Design and Preparation of Single-Chain Nanocarriers Mimicking Disordered Proteins for Combined Delivery of Dermal Bioactive Cargos. Macromolecular Rapid Communications, 2013, 34, 1681-1686.	2.0	82
10	Increasing the density melts ultrasoft colloidal glasses. Physical Review E, 2010, 82, 060501.	0.8	78
11	Efficient Route to Compact Single-Chain Nanoparticles: Photoactivated Synthesis via Thiol-Yne Coupling Reaction. Macromolecules, 2014, 47, 8270-8280.	2.2	77
12	Neutron scattering investigations on methyl group dynamics in polymers. Progress in Polymer Science, 2005, 30, 1147-1184.	11.8	75
13	Single-chain nanoparticles: opportunities provided by internal and external confinement. Materials Horizons, 2020, 7, 2292-2313.	6.4	72
14	Numerical modelling of non-ionic microgels: an overview. Soft Matter, 2019, 15, 1108-1119.	1.2	67
15	Concentrated Solutions of Single-Chain Nanoparticles: A Simple Model for Intrinsically Disordered Proteins under Crowding Conditions. Journal of Physical Chemistry Letters, 2016, 7, 838-844.	2.1	64
16	Diffusion and Relaxation Dynamics in Cluster Crystals. Physical Review Letters, 2007, 99, 107801.	2.9	63
17	Fluids of semiflexible ring polymers: effective potentials and clustering. Soft Matter, 2013, 9, 1287-1300.	1.2	61
18	Simulation guided design of globular single-chain nanoparticles by tuning the solvent quality. Soft Matter, 2015, 11, 1369-1375.	1.2	58

#	ARTICLE	IF	CITATIONS
19	Effects of Knots on Ring Polymers in Solvents of Varying Quality. <i>Macromolecules</i> , 2013, 46, 3654-3668.	2.2	57
20	Influence of topology on effective potentials: coarse-graining ring polymers. <i>Soft Matter</i> , 2010, 6, 2435.	1.2	55
21	Evidence for the Weak Steric Hindrance Scenario in the Supercooled-State Reorientational Dynamics. <i>Physical Review Letters</i> , 2005, 94, 215701.	2.9	54
22	Routes to colloidal gel formation. <i>Computer Physics Communications</i> , 2005, 169, 166-171.	3.0	52
23	Inelastic neutron scattering for investigating the dynamics of confined glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2657-2667.	1.5	51
24	On the Apparent SEC Molecular Weight and Polydispersity Reduction upon Intramolecular Collapse of Polydisperse Chains to Unimolecular Nanoparticles. <i>Macromolecules</i> , 2011, 44, 8644-8649.	2.2	49
25	Folding Single Chains to Single-Chain Nanoparticles via Reversible Interactions: What Size Reduction Can One Expect?. <i>Macromolecules</i> , 2017, 50, 1732-1739.	2.2	49
26	Is there a higher-order mode coupling transition in polymer blends?. <i>Journal of Chemical Physics</i> , 2006, 124, 184906.	1.2	46
27	Energy Landscape of a Simple Model for Strong Liquids. <i>Physical Review Letters</i> , 2005, 95, 157802.	2.9	45
28	Dynamics of Branched Polymers: A Combined Study by Molecular Dynamics Simulations and Tube Theory. <i>Macromolecules</i> , 2013, 46, 4633-4650.	2.2	45
29	Cluster Classes of Semiflexible Ring Polymers. <i>ACS Macro Letters</i> , 2014, 3, 611-616.	2.3	45
30	Chain Motion in Nonentangled Dynamically Asymmetric Polymer Blends: Comparison between Atomistic Simulations of PEO/PMMA and a Generic Bead- \sim Spring Model. <i>Macromolecules</i> , 2010, 43, 3036-3051.	2.2	44
31	Structure and dynamics of single-chain nano-particles in solution. <i>Polymer</i> , 2016, 105, 532-544.	1.8	44
32	Dynamic Arrest in Polymer Melts: Competition between Packing and Intramolecular Barriers. <i>Physical Review Letters</i> , 2008, 101, 255701.	2.9	43
33	Multi-orthogonal folding of single polymer chains into soft nanoparticles. <i>Soft Matter</i> , 2014, 10, 4813-4821.	1.2	43
34	A Solvent-Based Strategy for Tuning the Internal Structure of Metallo-Folded Single-Chain Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1060-1065.	2.0	39
35	Multi-blob coarse graining for ring polymer solutions. <i>Soft Matter</i> , 2014, 10, 9601-9614.	1.2	38
36	Computational investigation of microgels: synthesis and effect of the microstructure on the deswelling behavior. <i>Soft Matter</i> , 2018, 14, 7083-7096.	1.2	37

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37	Dynamic arrest in a liquid of symmetric dumbbells: Reorientational hopping for small molecular elongations. <i>Journal of Chemical Physics</i> , 2005, 123, 204505.	1.2	34
38	Heterogeneity of the Segmental Dynamics in Lamellar Phases of Diblock Copolymers. <i>Macromolecules</i> , 2011, 44, 6952-6961.	2.2	34
39	Methyl Group Dynamics in Poly(methyl methacrylate): From Quantum Tunneling to Classical Hopping. <i>Macromolecules</i> , 2001, 34, 4886-4896.	2.2	33
40	Dynamic Heterogeneity in Random and Gradient Copolymers: A Computational Investigation. <i>Macromolecules</i> , 2013, 46, 5066-5079.	2.2	32
41	An Anisotropic Effective Model for the Simulation of Semiflexible Ring Polymers. <i>Macromolecules</i> , 2015, 48, 4983-4997.	2.2	32
42	The Role of the Topological Constraints in the Chain Dynamics in All-Polymer Nanocomposites. <i>Macromolecules</i> , 2017, 50, 1719-1731.	2.2	31
43	Crowding the Environment of Single-Chain Nanoparticles: A Combined Study by SANS and Simulations. <i>Macromolecules</i> , 2018, 51, 1573-1585.	2.2	31
44	Entangledlike Chain Dynamics in Nonentangled Polymer Blends with Large Dynamic Asymmetry. <i>Physical Review Letters</i> , 2008, 100, 126001.	2.9	29
45	Effect of Blending on the Chain Dynamics of the α -Component in Nonentangled and Dynamically Asymmetric Polymer Blends. <i>Macromolecules</i> , 2011, 44, 3611-3621.	2.2	29
46	Cluster crystals in confinement. <i>Soft Matter</i> , 2009, 5, 1024.	1.2	28
47	Anisotropic effective interactions and stack formation in mixtures of semiflexible ring polymers. <i>Soft Matter</i> , 2016, 12, 4805-4820.	1.2	28
48	Isotope effect on the rotational tunneling transitions of methyl groups in glassy polymers. <i>Physical Review B</i> , 1999, 59, 5983-5986.	1.1	27
49	Structure and Dynamics of Self-Assembled Comb Copolymers: Comparison between Simulations of a Generic Model and Neutron Scattering Experiments. <i>Macromolecules</i> , 2011, 44, 1695-1706.	2.2	27
50	Cluster-forming systems of ultrasoft repulsive particles: statics and dynamics. <i>Computer Physics Communications</i> , 2008, 179, 71-76.	3.0	25
51	Non-Gaussian energy landscape of a simple model for strong network-forming liquids: Accurate evaluation of the configurational entropy. <i>Journal of Chemical Physics</i> , 2006, 124, 204509.	1.2	24
52	Cluster glasses of ultrasoft particles. <i>Journal of Chemical Physics</i> , 2012, 137, 184904.	1.2	23
53	Size of Elastic Single-Chain Nanoparticles in Solution and on Surfaces. <i>Macromolecules</i> , 2017, 50, 6323-6331.	2.2	23
54	Methyl group dynamics in glassy toluene: A neutron scattering study. <i>Journal of Chemical Physics</i> , 2001, 115, 8958-8966.	1.2	20

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55	The role of intramolecular barriers on the glass transition of polymers: Computer simulations versus mode coupling theory. <i>Journal of Chemical Physics</i> , 2009, 131, 204502.	1.2	20
56	Anomalous molecular weight dependence of chain dynamics in unentangled polymer blends with strong dynamic asymmetry. <i>Soft Matter</i> , 2012, 8, 3739.	1.2	20
57	Architecture-Induced Size Asymmetry and Effective Interactions of Ring Polymers: Simulation and Theory. <i>Macromolecules</i> , 2013, 46, 9437-9445.	2.2	19
58	Branch-Point Motion in Architecturally Complex Polymers: Estimation of Hopping Parameters from Computer Simulations and Experiments. <i>Macromolecules</i> , 2014, 47, 3362-3377.	2.2	18
59	Local Domain Size in Single-Chain Polymer Nanoparticles. <i>ACS Omega</i> , 2018, 3, 8648-8654.	1.6	17
60	Mesoscale Dynamics in Melts of Single-Chain Polymeric Nanoparticles. <i>Macromolecules</i> , 2019, 52, 6935-6942.	2.2	17
61	Effects of precursor topology and synthesis under crowding conditions on the structure of single-chain polymer nanoparticles. <i>Soft Matter</i> , 2017, 13, 6430-6438.	1.2	17
62	Dynamics of a rigid rod in a glassy medium. <i>Europhysics Letters</i> , 2004, 67, 820-826.	0.7	16
63	From caging to Rouse dynamics in polymer melts with intramolecular barriers: A critical test of the mode coupling theory. <i>Journal of Chemical Physics</i> , 2011, 134, 024523.	1.2	16
64	Effect of Molecular Crowding on Conformation and Interactions of Single-Chain Nanoparticles. <i>Macromolecules</i> , 2019, 52, 4295-4305.	2.2	16
65	Heterogeneity of the Segmental Dynamics in Cylindrical and Spherical Phases of Diblock Copolymers. <i>Macromolecules</i> , 2012, 45, 8841-8852.	2.2	15
66	Effect of chain stiffness on the structure of single-chain polymer nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 034001.	0.7	15
67	Facile Access to Completely Deuterated Single-Chain Nanoparticles Enabled by Intramolecular Azide Photodecomposition. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900046.	2.0	15
68	Atomic motions in the β -region of glass-forming polymers: molecular versus mode coupling theory approach. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 205127.	0.7	14
69	The Role of the Functionality in the Branch Point Motion in Symmetric Star Polymers: A Combined Study by Simulations and Neutron Spin Echo Spectroscopy. <i>Macromolecules</i> , 2018, 51, 242-253.	2.2	14
70	Relaxation dynamics of a linear molecule in a random static medium: A scaling analysis. <i>Journal of Chemical Physics</i> , 2004, 121, 380.	1.2	13
71	Logarithmic relaxation in a kinetically constrained model. <i>Journal of Chemical Physics</i> , 2006, 125, 016101.	1.2	13
72	Single-chain nanoparticles vs. star, hyperbranched and dendrimeric polymers: effect of the nanoscopic architecture on the flow properties of diluted solutions. <i>Soft Matter</i> , 2014, 10, 9454-9459.	1.2	13

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73	Single-Chain Nanoparticles under Homogeneous Shear Flow. <i>Macromolecules</i> , 2019, 52, 1821-1831.	2.2	13
74	Tunable slow dynamics in a new class of soft colloids. <i>Soft Matter</i> , 2016, 12, 9039-9046.	1.2	12
75	Methyl group rotational tunnelling in glasses: a direct comparison with the crystal. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 361-362.	1.3	11
76	Tests of mode coupling theory in a simple model for two-component miscible polymer blends. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 466112.	0.7	11
77	End-to-End Vector Dynamics of Nonentangled Polymers in Lamellar Block Copolymer Melts: The Role of Junction Point Motion. <i>Macromolecules</i> , 2013, 46, 7477-7487.	2.2	11
78	Effective interactions of knotted ring polymers. <i>Biochemical Society Transactions</i> , 2013, 41, 630-634.	1.6	11
79	Methyl group dynamics in glassy systems: Crossover from quantum to classical regime. <i>Physical Review B</i> , 2001, 63, .	1.1	10
80	Methyl-group dynamics from tunneling to hopping in $\text{NaCH}_3\text{CO}_2 \cdot 3\text{H}_2\text{O}$: Comparison between a crystal and its glassy counterpart. <i>Physical Review B</i> , 2002, 65, .	1.1	10
81	Methyl group dynamics in a confined glass. <i>European Physical Journal E</i> , 2003, 12, 43-46.	0.7	10
82	A Useful Methodology for Determining the Compaction Degree of Single-Chain Nanoparticles by Conventional SEC. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 373-381.	1.2	10
83	Advances in the Multi-Orthogonal Folding of Single Polymer Chains into Single-Chain Nanoparticles. <i>Polymers</i> , 2021, 13, 293.	2.0	10
84	Mode-coupling theory predictions for a limited valency attractive square well model. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2373-S2382.	0.7	9
85	Chain dynamics in nonentangled polymer melts: A first-principle approach for the role of intramolecular barriers. <i>Soft Matter</i> , 2011, 7, 1364.	1.2	9
86	Ultrafiltration of single-chain polymer nanoparticles through nanopores and nanoslits. <i>Polymer</i> , 2018, 148, 61-67.	1.8	9
87	Dynamics in binary cluster crystals. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P10015.	0.9	8
88	Real-Space Analysis of Branch Point Motion in Architecturally Complex Polymers. <i>Macromolecules</i> , 2014, 47, 6955-6963.	2.2	8
89	Methyl group dynamics in glassy polymers by neutron scattering: from classical to quantum motions. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 322-325.	1.3	7
90	Deformability and solvent penetration in soft nanoparticles at liquid-liquid interfaces. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 212-222.	5.0	7

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91	Gel Formation in Reversibly Cross-Linking Polymers. <i>Macromolecules</i> , 2021, 54, 6613-6627.	2.2	7
92	Role of Dynamic Asymmetry on the Collective Dynamics of Comblike Polymers: Insights from Neutron Spin-Echo Experiments and Coarse-Grained Molecular Dynamics Simulations. <i>Macromolecules</i> , 2016, 49, 4989-5000.	2.2	6
93	Brushes of elastic single-chain nanoparticles on flat surfaces. <i>Polymer</i> , 2019, 169, 207-214.	1.8	6
94	The distribution of tunnelling frequencies for methyl group rotation in poly(vinyl acetate). <i>Journal of Non-Crystalline Solids</i> , 2001, 287, 242-245.	1.5	4
95	Soft Confinement in Spherical Mesophases of Block Copolymer Melts. <i>Macromolecules</i> , 2009, 42, 8543-8556.	2.2	4
96	Coarsening Kinetics of Complex Macromolecular Architectures in Bad Solvent. <i>Polymers</i> , 2020, 12, 531.	2.0	4
97	Dynamics of a rod in a random static environment: non-Gaussian behaviour on large length scales. <i>Philosophical Magazine</i> , 2004, 84, 1383-1388.	0.7	3
98	Static and dynamic contributions to anomalous chain dynamics in polymer blends. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 234119.	0.7	3
99	Validity of Effective Potentials in Crowded Solutions of Linear and Ring Polymers with Reversible Bonds. <i>Macromolecules</i> , 2022, 55, 2659-2674.	2.2	3
100	Methyl group dynamics in a glass and its crystalline counterpart by neutron scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s424-s426.	1.1	2
101	Dynamics of a rod in a homogeneous/inhomogeneous frozen disordered medium: Correlation functions and non-Gaussian effects. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	2
102	Crowded solutions of single-chain nanoparticles under shear flow. <i>Soft Matter</i> , 2021, 17, 2223-2233.	1.2	2
103	Anomalous relaxation in binary mixtures: a dynamic facilitation picture. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 205144.	0.7	1
104	Proposed sets of critical exponents for randomly branched polymers, using a known string theory model. <i>Phase Transitions</i> , 2016, 89, 543-546.	0.6	1
105	The rotational barrier for methyl group dynamics in anhydrous sodium acetate. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1351-s1353.	1.1	0