

Michael J A Hore

List of Publications by Year in descending order

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48
papers

2,515
citations

147801

31
h-index

197818

49
g-index

50
all docs

50
docs citations

50
times ranked

3304
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly branched and loop-rich gels via formation of metal-organic cages linked by polymers. <i>Nature Chemistry</i> , 2016, 8, 33-41.	13.6	234
2	Poly[<i>n</i>]catenanes: Synthesis of molecular interlocked chains. <i>Science</i> , 2017, 358, 1434-1439.	12.6	196
3	Nanorod Self-Assembly for Tuning Optical Absorption. <i>ACS Nano</i> , 2010, 4, 6941-6949.	14.6	124
4	Functional Polymer Nanocomposites Enhanced by Nanorods. <i>Macromolecules</i> , 2014, 47, 875-887.	4.8	118
5	Nanorod Assemblies in Polymer Films and Their Dispersion-Dependent Optical Properties. <i>ACS Macro Letters</i> , 2012, 1, 115-121.	4.8	88
6	Co-Nonsolvency of Poly(<i>n</i> -isopropylacrylamide) in Deuterated Water/Ethanol Mixtures. <i>Macromolecules</i> , 2013, 46, 7894-7901.	4.8	88
7	Polymers on nanoparticles: structure & dynamics. <i>Soft Matter</i> , 2019, 15, 1120-1134.	2.7	87
8	Dispersion of Polymer-Grafted Nanorods in Homopolymer Films: Theory and Experiment. <i>Macromolecules</i> , 2013, 46, 2856-2869.	4.8	85
9	<i>Miscanthus Giganteus</i> : A commercially viable sustainable source of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017, 155, 230-241.	10.2	80
10	Gold Nanorods Dispersed in Homopolymer Films: Optical Properties Controlled by Self-Assembly and Percolation of Nanorods. <i>ACS Nano</i> , 2012, 6, 1578-1588.	14.6	72
11	Polymer Structure and Conformation Alter the Antigenicity of Virus-like Particle-Polymer Conjugates. <i>Journal of the American Chemical Society</i> , 2017, 139, 3312-3315.	13.7	70
12	Universal Scaling of Polymer Diffusion in Nanocomposites. <i>ACS Macro Letters</i> , 2013, 2, 485-490.	4.8	67
13	Semibatch monomer addition as a general method to tune and enhance the mechanics of polymer networks via loop-defect control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4875-4880.	7.1	67
14	Direct Measurements of Polymer Brush Conformation Using Small-Angle Neutron Scattering (SANS) from Highly Grafted Iron Oxide Nanoparticles in Homopolymer Melts. <i>Macromolecules</i> , 2013, 46, 9341-9348.	4.8	66
15	Biomimetic Reversible Heat-Stiffening Polymer Nanocomposites. <i>ACS Central Science</i> , 2017, 3, 886-894.	11.3	58
16	Nanospheres in phase-separating multicomponent fluids: A three-dimensional dissipative particle dynamics simulation. <i>Journal of Chemical Physics</i> , 2004, 121, 10641-10647.	3.0	56
17	Prospects of nanorods as an emulsifying agent of immiscible blends. <i>Journal of Chemical Physics</i> , 2008, 128, 054901.	3.0	52
18	A jamming morphology map of polymer blend nanocomposite films. <i>Soft Matter</i> , 2011, 7, 7262.	2.7	52

#	ARTICLE	IF	CITATIONS
19	Structure–property relationships of polymer-grafted nanospheres for designing advanced nanocomposites. <i>Nano Structures Nano Objects</i> , 2018, 16, 428-440.	3.5	49
20	Local Structure and Relaxation Dynamics in the Brush of Polymer-Grafted Silica Nanoparticles. <i>ACS Macro Letters</i> , 2018, 7, 699-704.	4.8	49
21	Polymer Structure Dependent Hierarchy in PolyMOC Gels. <i>Macromolecules</i> , 2016, 49, 6896-6902.	4.8	48
22	Microphase separation induced by interfacial segregation of isotropic, spherical nanoparticles. <i>Journal of Chemical Physics</i> , 2007, 126, 244903.	3.0	47
23	Using Miscible Polymer Blends To Control Depletion–Attraction Forces between Au Nanorods in Nanocomposite Films. <i>Macromolecules</i> , 2012, 45, 6078-6086.	4.8	47
24	Gold Nanorod Linking to Control Plasmonic Properties in Solution and Polymer Nanocomposites. <i>Langmuir</i> , 2014, 30, 1906-1914.	3.5	47
25	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. <i>Nano Letters</i> , 2015, 15, 5730-5738.	9.1	46
26	Nanoparticle Brush Architecture Controls Polymer Diffusion in Nanocomposites. <i>Macromolecules</i> , 2014, 47, 2404-2410.	4.8	44
27	Bottlebrush polymers with flexible enantiomeric side chains display differential biological properties. <i>Nature Chemistry</i> , 2022, 14, 85-93.	13.6	43
28	Grafted polymer chains suppress nanoparticle diffusion in athermal polymer melts. <i>Journal of Chemical Physics</i> , 2017, 146, 203332.	3.0	36
29	Polymer-mediated nanorod self-assembly predicted by dissipative particle dynamics simulations. <i>Soft Matter</i> , 2015, 11, 6881-6892.	2.7	35
30	Scaling Exponent and Effective Interactions in Linear and Cyclic Polymer Solutions: Theory, Simulations, and Experiments. <i>Macromolecules</i> , 2019, 52, 4579-4589.	4.8	35
31	Interaction and Conformation of Aqueous Poly(N-isopropylacrylamide) (PNIPAM) Star Polymers below the LCST. <i>Macromolecules</i> , 2017, 50, 2145-2154.	4.8	33
32	Characterizing polymer structure with small-angle neutron scattering: A Tutorial. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	33
33	Dissipative particle dynamics simulation of the interplay between spinodal decomposition and wetting in thin film binary fluids. <i>Journal of Chemical Physics</i> , 2010, 132, 024908.	3.0	31
34	Chain terminal group leads to distinct thermoresponsive behaviors of linear PNIPAM and polymer analogs. <i>Polymer</i> , 2018, 145, 137-147.	3.8	31
35	Persistent Multiexcitons from Polymers with Pendent Pentacenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9564-9569.	13.7	31
36	Gold nanorod length controls dispersion, local ordering, and optical absorption in polymer nanocomposite films. <i>Soft Matter</i> , 2014, 10, 3404-3413.	2.7	28

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37	Rapid Large-Scale Assembly and Pattern Transfer of One-Dimensional Gold Nanorod Superstructures. ACS Applied Materials & Interfaces, 2017, 9, 25513-25521.	8.0	27
38	Strategies for dispersing, assembling, and orienting nanorods in polymers. Current Opinion in Chemical Engineering, 2013, 2, 95-102.	7.8	24
39	Polymer-Grafted Nanoparticles. Journal of Applied Physics, 2020, 128, .	2.5	21
40	Stereochemical Control Yields Mucin Mimetic Polymers. ACS Central Science, 2021, 7, 624-630.	11.3	21
41	Structural characterization of protein-polymer conjugates for biomedical applications with small-angle scattering. Current Opinion in Colloid and Interface Science, 2019, 42, 157-168.	7.4	13
42	Simulation of the Coronal Dynamics of Polymer-Grafted Nanoparticles. ACS Polymers Au, 2022, 2, 157-168.	4.1	9
43	Dynamic Interfacial Trapping of Janus Nanorod Aggregates. Langmuir, 2020, 36, 4184-4193.	3.5	8
44	Translocation of soft phytoglycogen nanoparticles through solid-state nanochannels. Journal of Materials Chemistry B, 2019, 7, 6428-6437.	5.8	7
45	Isomeric and structural effects in polymer cononsolvent systems. Polymer, 2019, 170, 190-197.	3.8	4
46	A correspondence between the Flory-Rehner theory for microgels and the Daoud-Cotton model for polymer-grafted nanoparticles. Journal of Applied Physics, 2020, 128, .	2.5	3
47	Effect of Nanoscale rods on the Kinetics of Phase-Separating Multi-Component Fluids. Materials Research Society Symposia Proceedings, 2004, 856, BB7.7.1.	0.1	1
48	Predicting the Optical and Electrical Properties of Polymer Nanocomposites. Springer Series in Materials Science, 2021, , 259-280.	0.6	0