Michael J A Hore

List of Publications by Year
in descending order

48	2,515	168829	223390
papers	citations	31 h-index	49 g-index

50	50	50	3785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bottlebrush polymers with flexible enantiomeric side chains display differential biological properties. Nature Chemistry, 2022, 14, 85-93.	6.6	43
2	Simulation of the Coronal Dynamics of Polymer-Grafted Nanoparticles. ACS Polymers Au, 2022, 2, 157-168.	1.7	9
3	Stereochemical Control Yields Mucin Mimetic Polymers. ACS Central Science, 2021, 7, 624-630.	5.3	21
4	Characterizing polymer structure with small-angle neutron scattering: A Tutorial. Journal of Applied Physics, 2021, 129, .	1.1	33
5	Predicting the Optical and Electrical Properties of Polymer Nanocomposites. Springer Series in Materials Science, 2021, , 259-280.	0.4	0
6	Polymer-Grafted Nanoparticles. Journal of Applied Physics, 2020, 128, .	1.1	21
7	Dynamic Interfacial Trapping of Janus Nanorod Aggregates. Langmuir, 2020, 36, 4184-4193.	1.6	8
8	A correspondence between the Floryâ€“Rehner theory for microgels and the Daoudâ€“Cotton model for polymer-grafted nanoparticles. Journal of Applied Physics, 2020, 128, .	1.1	3
9	Translocation of soft phytoglycogen nanoparticles through solid-state nanochannels. Journal of Materials Chemistry B, 2019, 7, 6428-6437.	2.9	7
10	Structural characterization of proteinâ€“polymer conjugates for biomedical applications with small-angle scattering. Current Opinion in Colloid and Interface Science, 2019, 42, 157-168.	3.4	13
11	Polymers on nanoparticles: structure & dynamics. Soft Matter, 2019, 15, 1120-1134.	1.2	87
12	Scaling Exponent and Effective Interactions in Linear and Cyclic Polymer Solutions: Theory, Simulations, and Experiments. Macromolecules, 2019, 52, 4579-4589.	2.2	35
13	Persistent Multiexcitons from Polymers with Pendent Pentacenes. Journal of the American Chemical Society, 2019, 141, 9564-9569.	6.6	31
14	Isomeric and structural effects in polymer cononsolvent systems. Polymer, 2019, 170, 190-197.	1.8	4
15	Structureâ€“property relationships of polymer-grafted nanospheres for designing advanced nanocomposites. Nano Structures Nano Objects, 2018, 16, 428-440.	1.9	49
16	Chain terminal group leads to distinct thermoresponsive behaviors ofÂlinear PNIPAM and polymer analogs. Polymer, 2018, 145, 137-147.	1.8	31
17	Local Structure and Relaxation Dynamics in the Brush of Polymer-Grafted Silica Nanoparticles. ACS Macro Letters, 2018, 7, 699-704.	2.3	49
18	Polymer Structure and Conformation Alter the Antigenicity of Virus-like Particleâ€“Polymer Conjugates. Journal of the American Chemical Society, 2017, 139, 3312-3315.	6.6	70

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19	Interaction and Conformation of Aqueous Poly(N-isopropylacrylamide) (PNIPAM) Star Polymers below the LCST. Macromolecules, 2017, 50, 2145-2154.	2.2	33
20	Semibatch monomer addition as a general method to tune and enhance the mechanics of polymer networks via loop-defect control. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4875-4880.	3.3	67
21	Grafted polymer chains suppress nanoparticle diffusion in athermal polymer melts. Journal of Chemical Physics, 2017, 146, 203332.	1.2	36
22	Biomimetic Reversible Heat-Stiffening Polymer Nanocomposites. ACS Central Science, 2017, 3, 886-894.	5.3	58
23	Poly[n]catenanes: Synthesis of molecular interlocked chains. Science, 2017, 358, 1434-1439.	6.0	196
24	Rapid Large-Scale Assembly and Pattern Transfer of One-Dimensional Gold Nanorod Superstructures. ACS Applied Materials & Interfaces, 2017, 9, 25513-25521.	4.0	27
25	Miscanthus Giganteus: A commercially viable sustainable source of cellulose nanocrystals. Carbohydrate Polymers, 2017, 155, 230-241.	5.1	80
26	Polymer Structure Dependent Hierarchy in PolyMOC Gels. Macromolecules, 2016, 49, 6896-6902.	2.2	48
27	Highly branched and loop-rich gels via formation of metalâ€“organic cages linked by polymers. Nature Chemistry, 2016, 8, 33-41.	6.6	234
28	Polymer-mediated nanorod self-assembly predicted by dissipative particle dynamics simulations. Soft Matter, 2015, 11, 6881-6892.	1.2	35
29	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. Nano Letters, 2015, 15, 5730-5738.	4.5	46
30	Nanoparticle Brush Architecture Controls Polymer Diffusion in Nanocomposites. Macromolecules, 2014, 47, 2404-2410.	2.2	44
31	Functional Polymer Nanocomposites Enhanced by Nanorods. Macromolecules, 2014, 47, 875-887.	2.2	118
32	Gold nanorod length controls dispersion, local ordering, and optical absorption in polymer nanocomposite films. Soft Matter, 2014, 10, 3404-3413.	1.2	28
33	Gold Nanorod Linking to Control Plasmonic Properties in Solution and Polymer Nanocomposites. Langmuir, 2014, 30, 1906-1914.	1.6	47
34	Co-Nonsolvency of Poly(n-isopropylacrylamide) in Deuterated Water/Ethanol Mixtures. Macromolecules, 2013, 46, 7894-7901.	2.2	88
35	Strategies for dispersing, assembling, and orienting nanorods in polymers. Current Opinion in Chemical Engineering, 2013, 2, 95-102.	3.8	24
36	Universal Scaling of Polymer Diffusion in Nanocomposites. ACS Macro Letters, 2013, 2, 485-490.	2.3	67

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37	Dispersion of Polymer-Grafted Nanorods in Homopolymer Films: Theory and Experiment. Macromolecules, 2013, 46, 2856-2869.	2.2	85
38	Direct Measurements of Polymer Brush Conformation Using Small-Angle Neutron Scattering (SANS) from Highly Grafted Iron Oxide Nanoparticles in Homopolymer Melts. Macromolecules, 2013, 46, 9341-9348.	2.2	66
39	Using Miscible Polymer Blends To Control Depletionâ€“Attraction Forces between Au Nanorods in Nanocomposite Films. Macromolecules, 2012, 45, 6078-6086.	2.2	47
40	Gold Nanorods Dispersed in Homopolymer Films: Optical Properties Controlled by Self-Assembly and Percolation of Nanorods. ACS Nano, 2012, 6, 1578-1588.	7.3	72
41	Nanorod Assemblies in Polymer Films and Their Dispersion-Dependent Optical Properties. ACS Macro Letters, 2012, 1, 115-121.	2.3	88
42	A jamming morphology map of polymer blend nanocomposite films. Soft Matter, 2011, 7, 7262.	1.2	52
43	Nanorod Self-Assembly for Tuning Optical Absorption. ACS Nano, 2010, 4, 6941-6949.	7.3	124
44	Dissipative particle dynamics simulation of the interplay between spinodal decomposition and wetting in thin film binary fluids. Journal of Chemical Physics, 2010, 132, 024908.	1.2	31
45	Prospects of nanorods as an emulsifying agent of immiscible blends. Journal of Chemical Physics, 2008, 128, 054901.	1.2	52
46	Microphase separation induced by interfacial segregation of isotropic, spherical nanoparticles. Journal of Chemical Physics, 2007, 126, 244903.	1.2	47
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	Nanospheres in phase-separating multicomponent fluids: A three-dimensional dissipative particle dynamics simulation. Journal of Chemical Physics, 2004, 121, 10641-10647.	1.2	56