Ya Liu

List of Publications by Year
in descending order

24 papers	388 citations	1039880 9 h-index	752573 20 g-index
24 all docs	24 docs citations	24 times ranked	623 citing authors

#	Article	IF	Citations
1	An aptamer-functionalized chemomechanically modulated biomolecule catch-and-release system. Nature Chemistry, 2015, 7, 447-454.	6.6	128
2	Self Assembly of Janus Ellipsoids. Langmuir, 2012, 28, 3-9.	1.6	55
3	Shapes of semiflexible polymers in confined spaces. Physical Biology, 2008, 5, 026004.	0.8	42
4	Encapsulation by Janus spheroids. Soft Matter, 2012, 8, 6027.	1.2	19
5	Designing Composite Coatings That Provide a Dual Defense against Fouling. Langmuir, 2015, 31, 7524-7532.	1.6	16
6	Segregation of polymers in confined spaces. Physical Biology, 2012, 9, 066005.	0.8	15
7	Delamination of a thin sheet from a soft adhesive Winkler substrate. Physical Review E, 2018, 97, 062803.	0.8	15
8	Designing a gelâ€“fiber composite to extract nanoparticles from solution. Soft Matter, 2015, 11, 8692-8700.	1.2	12
9	Statistical mechanics of helical wormlike chain model. Journal of Chemical Physics, 2011, 134, 065107.	1.2	11
10	Computational modeling of oscillating fins that â€œcatch and releaseâ€•targeted nanoparticles in bilayer flows. Soft Matter, 2016, 12, 1374-1384.	1.2	11
11	Kinetics of Nanochain Formation in a Simplified Model of Amelogenin Biomacromolecules. Biophysical Journal, 2011, 101, 2502-2506.	0.2	9
12	Pathways of Cluster Growth and Kinetic Slowing Down in a Model of Short-Range Attractive Colloids. Langmuir, 2011, 27, 11401-11408.	1.6	8
13	Harnessing Cooperative Interactions between Thermoresponsive Aptamers and Gels To Trap and Release Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 30475-30483.	4.0	8
14	The bound polaron in an electric field in polar semiconductor heterostructures. Superlattices and Microstructures, 1998, 24, 369-379.	1.4	7
15	Coassembly of Nanorods and Photosensitive Binary Blends: â€œCombingâ€•with Light To Create Periodically Ordered Nanocomposites. Langmuir, 2013, 29, 750-760.	1.6	7
16	Patterning non-equilibrium morphologies in stimuli-responsive gels through topographical confinement. Soft Matter, 2020, 16, 1463-1472.	1.2	7
17	Polaron effects on the binding energy of a double donor impurity in quantum wells in an electric field. Superlattices and Microstructures, 2000, 27, 235-243.	1.4	5
18	Modeling Biofilm Formation on Dynamically Reconfigurable Composite Surfaces. Langmuir, 2018, 34, 1807-1816.	1.6	4

#	Article	IF	Citations
19	Polaronic effects on the energy levels of a double donor impurity in quantum wells in the presence of a magnetic field. European Physical Journal B, 1999, 12, 347-350.	0.6	3
20	Using Dissipative Particle Dynamics to Model Effects of Chemical Reactions Occurring within Hydrogels. Nanomaterials, 2021, 11, 2764.	1.9	3
21	Optimizing Micromixer Surfaces To Deter Biofouling. ACS Applied Materials & Interfaces, 2018, 10, 8374-8383.	4.0	2
22	Using Light To Guide the Motion of Nanorods in Photoresponsive Binary Blends: Designing Hierarchically Structured Nanocomposites. Langmuir, 2013, 29, 12785-12795.	1.6	1
23	Double bound polaron in polar semiconductor heterostructures. Superlattices and Microstructures, 2003, 33, 53-62.	1.4	0
24	Janus Ellipsoids: Self-Assembly and Applications. , 2017, , 277-314.		0