Laura L E Mears

List of Publications by Year
in descending order

25 papers	554 citations	623734 14 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	884 citing authors

#	Article	IF	Citations
1	Visualization of Ion	Surface Binding and In Situ Evaluation of Surface Interaction Free Energies via Competitive Adsorption Isotherms. ACS Physical Chemistry Au, 2021, 1, 45-53.	4.0	3
2	Structural Evidence for a Reinforcing Response and Retention of Hydration During Confinement of Cartilage Lipids. Frontiers in Physics, 2021, 9, .	2.1	3
3	Hydration Forces Dominate Surface Charge Dependent Lipid Bilayer Interactions under Physiological Conditions. Journal of Physical Chemistry Letters, 2021, 12, 9248-9252.	4.6	5
4	Lipid Anchoring Improves Lubrication and Wear Resistance of the Collagen I Matrix. Langmuir, 2021, 37, 13810-13815.	3.5	3
5	Mechanistic understanding of catechols and integration into an electrochemically cross-linked mussel foot inspired adhesive hydrogel. Biointerphases, 2021, 16, 061002.	1.6	6
6	Solid-supported lipid bilayers â€“ A versatile tool for the structural and functional characterization of membrane proteins. Methods, 2020, 180, 56-68.	3.8	14
7	Adsorption and Diffusion Moderated by Polycationic Polymers during Electrodeposition of Zinc. ACS Applied Materials & Interfaces, 2020, 12, 29928-29936.	8.0	5
8	Probing Structures, Forces, and Dynamics of Soft Matter in Nanometer Confinement Using Multiple Beam Interferometry. , 2020, , 37-90.		0
9	Interaction Profiles and Stability of Rigid and Polymer-Tethered Lipid Bilayer Models at Highly Charged and Highly Adhesive Contacts. Langmuir, 2019, 35, 15552-15563.	3.5	13
10	Optimizing multiple beam interferometry in the surface forces apparatus: Novel optics, reflection mode modeling, metal layer thicknesses, birefringence, and rotation of anisotropic layers. Review of Scientific Instruments, 2019, 90, 043908.	1.3	23
11	Gelation enabled charge separation following visible light excitation using self-assembled perylene bisimides. Physical Chemistry Chemical Physics, 2019, 21, 26466-26476.	2.8	12
12	Synthesis and electrokinetics of cationic spherical nanoparticles in salt-free non-polar media. Chemical Science, 2018, 9, 922-934.	7.4	16
13	Drying Affects the Fiber Network in Low Molecular Weight Hydrogels. Biomacromolecules, 2017, 18, 3531-3540.	5.4	92
14	pH dependent photocatalytic hydrogen evolution by self-assembled perylene bisimides. Journal of Materials Chemistry A, 2017, 5, 7555-7563.	10.3	39
15	Self-sorted Oligophenylvinylene and Perylene Bisimide Hydrogels. Scientific Reports, 2017, 7, 8380.	3.3	30
16	Switching the Interpenetration of Confined Asymmetric Polymer Brushes. Macromolecules, 2016, 49, 4349-4357.	4.8	20
17	Linking micellar structures to hydrogelation for salt-triggered dipeptide gelators. Soft Matter, 2016, 12, 3612-3621.	2.7	69
18	On the syneresis of an OPV functionalised dipeptide hydrogel. Soft Matter, 2016, 12, 7848-7854.	2.7	40

#	Article	IF	Citations
19	Using the hydrolysis of anhydrides to control gel properties and homogeneity in pH-triggered gelation. RSC Advances, 2015, 5, 95369-95378.	3.6	32
20	Is Osmotic Pressure Relevant in the Mechanical Confinement of a Polymer Brush?. Macromolecules, 2015, 48, 2224-2234.	4.8	27
21	Liquid crystal electrography: Electric field mapping and detection of peak electric field strength in AlGaN/GaN high electron mobility transistors. Microelectronics Reliability, 2014, 54, 921-925.	1.7	3
22	Hydration of Oddâ€“Even Terminated Polyelectrolyte Multilayers under Mechanical Confinement. Macromolecules, 2014, 47, 3263-3273.	4.8	20
23	Nonuniform Hydration and Oddâ€“Even Effects in Polyelectrolyte Multilayers under a Confining Pressure. Macromolecules, 2013, 46, 1027-1034.	4.8	37
24	Measuring the structure of thin soft matter films under confinement: A surface-force type apparatus for neutron reflection, based on a flexible membrane approach. Review of Scientific Instruments, 2012, 83, 113903.	1.3	20
25	Surface Modification of Polyethylene with Multi-End-Functional Polyethylene Additives. Langmuir, 2012, 28, 5125-5137.	3.5	22