

# Laura L E Mears

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Drying Affects the Fiber Network in Low Molecular Weight Hydrogels. <i>Biomacromolecules</i> , 2017, 18, 3531-3540.	5.4	92
2	Linking micellar structures to hydrogelation for salt-triggered dipeptide gelators. <i>Soft Matter</i> , 2016, 12, 3612-3621.	2.7	69
3	On the syneresis of an OPV functionalised dipeptide hydrogel. <i>Soft Matter</i> , 2016, 12, 7848-7854.	2.7	40
4	pH dependent photocatalytic hydrogen evolution by self-assembled perylene bisimides. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7555-7563.	10.3	39
5	Nonuniform Hydration and Odd-Even Effects in Polyelectrolyte Multilayers under a Confining Pressure. <i>Macromolecules</i> , 2013, 46, 1027-1034.	4.8	37
6	Using the hydrolysis of anhydrides to control gel properties and homogeneity in pH-triggered gelation. <i>RSC Advances</i> , 2015, 5, 95369-95378.	3.6	32
7	Self-sorted Oligophenylvinylene and Perylene Bisimide Hydrogels. <i>Scientific Reports</i> , 2017, 7, 8380.	3.3	30
8	Is Osmotic Pressure Relevant in the Mechanical Confinement of a Polymer Brush?. <i>Macromolecules</i> , 2015, 48, 2224-2234.	4.8	27
9	Optimizing multiple beam interferometry in the surface forces apparatus: Novel optics, reflection mode modeling, metal layer thicknesses, birefringence, and rotation of anisotropic layers. <i>Review of Scientific Instruments</i> , 2019, 90, 043908.	1.3	23
10	Surface Modification of Polyethylene with Multi-End-Functional Polyethylene Additives. <i>Langmuir</i> , 2012, 28, 5125-5137.	3.5	22
11	Measuring the structure of thin soft matter films under confinement: A surface-force type apparatus for neutron reflection, based on a flexible membrane approach. <i>Review of Scientific Instruments</i> , 2012, 83, 113903.	1.3	20
12	Hydration of Odd-Even Terminated Polyelectrolyte Multilayers under Mechanical Confinement. <i>Macromolecules</i> , 2014, 47, 3263-3273.	4.8	20
13	Switching the Interpenetration of Confined Asymmetric Polymer Brushes. <i>Macromolecules</i> , 2016, 49, 4349-4357.	4.8	20
14	Synthesis and electrokinetics of cationic spherical nanoparticles in salt-free non-polar media. <i>Chemical Science</i> , 2018, 9, 922-934.	7.4	16
15	Solid-supported lipid bilayers – A versatile tool for the structural and functional characterization of membrane proteins. <i>Methods</i> , 2020, 180, 56-68.	3.8	14
16	Interaction Profiles and Stability of Rigid and Polymer-Tethered Lipid Bilayer Models at Highly Charged and Highly Adhesive Contacts. <i>Langmuir</i> , 2019, 35, 15552-15563.	3.5	13
17	Gelation enabled charge separation following visible light excitation using self-assembled perylene bisimides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26466-26476.	2.8	12
18	Mechanistic understanding of catechols and integration into an electrochemically cross-linked mussel foot inspired adhesive hydrogel. <i>Biointerphases</i> , 2021, 16, 061002.	1.6	6

#	ARTICLE	IF	CITATIONS
19	Adsorption and Diffusion Moderated by Polycationic Polymers during Electrodeposition of Zinc. ACS Applied Materials & Interfaces, 2020, 12, 29928-29936.	8.0	5
20	Hydration Forces Dominate Surface Charge Dependent Lipid Bilayer Interactions under Physiological Conditions. Journal of Physical Chemistry Letters, 2021, 12, 9248-9252.	4.6	5
21	Liquid crystal electrography: Electric field mapping and detection of peak electric field strength in AlGaIn/GaN high electron mobility transistors. Microelectronics Reliability, 2014, 54, 921-925.	1.7	3
22	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
23	Structural Evidence for a Reinforcing Response and Retention of Hydration During Confinement of Cartilage Lipids. Frontiers in Physics, 2021, 9, .	2.1	3
24	Lipid Anchoring Improves Lubrication and Wear Resistance of the Collagen I Matrix. Langmuir, 2021, 37, 13810-13815.	3.5	3
25	Probing Structures, Forces, and Dynamics of Soft Matter in Nanometer Confinement Using Multiple Beam Interferometry. , 2020, , 37-90.		0