Lingyan Li

List of Publications by Year in descending order

36 papers	5,753 citations	172386 29 h-index	360920 35 g-index
36 all docs	36 docs citations	36 times ranked	7020 citing authors

#	Article	IF	Citations
1	Surface hydration: Principles and applications toward low-fouling/nonfouling biomaterials. Polymer, 2010, 51, 5283-5293.	1.8	1,370
2	Strong Resistance of Phosphorylcholine Self-Assembled Monolayers to Protein Adsorption:Â Insights into Nonfouling Properties of Zwitterionic Materials. Journal of the American Chemical Society, 2005, 127, 14473-14478.	6.6	918
3	Protein Adsorption on Oligo(ethylene glycol)-Terminated Alkanethiolate Self-Assembled Monolayers:Â The Molecular Basis for Nonfouling Behavior. Journal of Physical Chemistry B, 2005, 109, 2934-2941.	1.2	461
4	Strong Repulsive Forces between Protein and Oligo (Ethylene Glycol) Self-Assembled Monolayers: A Molecular Simulation Study. Biophysical Journal, 2005, 89, 158-166.	0.2	310
5	Free-Standing Two-Dimensional Ru Nanosheets with High Activity toward Water Splitting. ACS Catalysis, 2016, 6, 1487-1492.	5.5	276
6	Molecular Simulation Study of Water Interactions with Oligo (Ethylene Glycol)-Terminated Alkanethiol Self-Assembled Monolayers. Langmuir, 2004, 20, 8931-8938.	1.6	270
7	Improved Method for the Preparation of Carboxylic Acid and Amine Terminated Self-Assembled Monolayers of Alkanethiolates. Langmuir, 2005, 21, 2633-2636.	1.6	230
8	Effect of Film Thickness on the Antifouling Performance of Poly(hydroxy-functional methacrylates) Grafted Surfaces. Langmuir, 2011, 27, 4906-4913.	1.6	201
9	Protein interactions with oligo(ethylene glycol) (OEG) self-assembled monolayers: OEG stability, surface packing density and protein adsorption. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 1415-1427.	1.9	170
10	Binding characteristics between polyethylene glycol (PEG) and proteins in aqueous solution. Journal of Materials Chemistry B, 2014, 2, 2983.	2.9	149
11	Controlled Chemical and Structural Properties of Mixed Self-Assembled Monolayers of Alkanethiols on Au(111). Langmuir, 2000, 16, 9287-9293.	1.6	133
12	Structural, morphological, and kinetic studies of Î²-amyloid peptide aggregation on self-assembled monolayers. Physical Chemistry Chemical Physics, 2011, 13, 15200.	1.3	96
13	Dual Functionality of Antimicrobial and Antifouling of Poly(N-hydroxyethylacrylamide)/Salicylate Hydrogels. Langmuir, 2013, 29, 1517-1524.	1.6	95
14	Achieving Highly Effective Nonfouling Performance for Surface-Grafted Poly(HPMA) via Atom-Transfer Radical Polymerization. Langmuir, 2010, 26, 17375-17382.	1.6	92
15	Synthesis and characterization of pH-sensitive poly(N-2-hydroxyethyl acrylamide)â€“acrylic acid (poly(HEAA/AA)) nanogels with antifouling protection for controlled release. Soft Matter, 2012, 8, 7848.	1.2	81
16	Protein Adsorption on Alkanethiolate Self-Assembled Monolayers:Â Nanoscale Surface Structural and Chemical Effects. Langmuir, 2003, 19, 2974-2982.	1.6	78
17	Probing structureâ€“antifouling activity relationships of polyacrylamides and polyacrylates. Biomaterials, 2013, 34, 4714-4724.	5.7	77
18	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. Acta Biomaterialia, 2016, 40, 62-69.	4.1	74

#	Article	IF	Citations
19	Controlled Chemical and Structural Properties of Mixed Self-Assembled Monolayers by Coadsorption of Symmetric and Asymmetric Disulfides on Au(111). Journal of Physical Chemistry B, 2001, 105, 2975-2980.	1.2	69
20	Probing the weak interaction of proteins with neutral and zwitterionic antifouling polymers. Acta Biomaterialia, 2014, 10, 751-760.	4.1	68
21	Hemocompatibility of Silicon-Based Substrates for Biomedical Implant Applications. Annals of Biomedical Engineering, 2011, 39, 1296-1305.	1.3	62
22	Molecular-Scale Mixed Alkanethiol Monolayers of Different Terminal Groups on Au(111) by Low-Current Scanning Tunneling Microscopy. Langmuir, 2003, 19, 3266-3271.	1.6	58
23	In Situ Single-Molecule Detection of Antibodyâ^'Antigen Binding by Tapping-Mode Atomic Force Microscopy. Analytical Chemistry, 2002, 74, 6017-6022.	3.2	52
24	Measurements of Friction and Adhesion for Alkyl Monolayers on Si(111) by Scanning Force Microscopy. Langmuir, 2002, 18, 5448-5456.	1.6	51
25	Anti-biofouling Sulfobetaine Polymer Thin Films on Silicon and Silicon Nanopore Membranes. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 91-106.	1.9	47
26	Molecular simulation studies of the structure of phosphorylcholine self-assembled monolayers. Journal of Chemical Physics, 2006, 125, 174714.	1.2	41
27	Alzheimer AÎ²_{1â^'42} Monomer Adsorbed on the Self-Assembled Monolayers. Langmuir, 2010, 26, 12722-12732.	1.6	39
28	Antifouling and biodegradable poly(N-hydroxyethyl acrylamide) (polyHEAA)-based nanogels. RSC Advances, 2013, 3, 19991.	1.7	37
29	Quantitative Measurements of Frictional Properties ofn-Alkanethiols on Au(111) by Scanning Force Microscopy. Journal of Physical Chemistry B, 1999, 103, 8290-8295.	1.2	34
30	Strong resistance of poly (ethylene glycol) based <scp>L</scp>â€tyrosine polyurethanes to protein adsorption and cell adhesion. Polymer International, 2012, 61, 616-621.	1.6	28
31	Nanoscale Frictional Properties of Mixed Alkanethiol Self-Assembled Monolayers on Au(111) by Scanning Force Microscopy:Â Humidity Effect. Langmuir, 2003, 19, 666-671.	1.6	25
32	Molecular conformation and filtration properties of anionic Ficoll. American Journal of Physiology - Renal Physiology, 2010, 299, F752-F757.	1.3	17
33	Effects of Pressure and Electrical Charge on Macromolecular Transport Across Bovine Lens Basement Membrane. Biophysical Journal, 2013, 104, 1476-1484.	0.2	17
34	Basal lamina secreted by MDCK cells has size- and charge-selective properties. American Journal of Physiology - Renal Physiology, 2011, 300, F86-F90.	1.3	15
35	Two-Dimensional Metal Organic Framework Nanosheets as Bifunctional Catalyst for Electrochemical and Photoelectrochemical Water Oxidation. Frontiers in Chemistry, 2020, 8, 604239.	1.8	12
36	Nanoscale Frictional Properties of Pure and Mixed Alkanethiols on Au(111) by Scanning Force Microscopy. ACS Symposium Series, 2000, , 168-177.	0.5	0