

Shaoyi Jiang

List of Publications by Year in descending order

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260
papers

29,956
citations

3334

91
h-index

5120

166
g-index

266
all docs

266
docs citations

266
times ranked

19696
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralow Fouling, Functionalizable, and Hydrolyzable Zwitterionic Materials and Their Derivatives for Biological Applications. <i>Advanced Materials</i> , 2010, 22, 920-932.	21.0	1,697
2	Strong Resistance of Phosphorylcholine Self-Assembled Monolayers to Protein Adsorption: Insights into Nonfouling Properties of Zwitterionic Materials. <i>Journal of the American Chemical Society</i> , 2005, 127, 14473-14478.	13.7	918
3	Zwitterionic hydrogels implanted in mice resist the foreign-body reaction. <i>Nature Biotechnology</i> , 2013, 31, 553-556.	17.5	787
4	Zwitterionic Polymers Exhibiting High Resistance to Nonspecific Protein Adsorption from Human Serum and Plasma. <i>Biomacromolecules</i> , 2008, 9, 1357-1361.	5.4	712
5	Molecular Understanding and Design of Zwitterionic Materials. <i>Advanced Materials</i> , 2015, 27, 15-26.	21.0	682
6	Inhibition of bacterial adhesion and biofilm formation on zwitterionic surfaces. <i>Biomaterials</i> , 2007, 28, 4192-4199.	11.4	640
7	Superlow Fouling Sulfobetaine and Carboxybetaine Polymers on Glass Slides. <i>Langmuir</i> , 2006, 22, 10072-10077.	3.5	601
8	Integrated Antimicrobial and Nonfouling Zwitterionic Polymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1746-1754.	13.8	516
9	Surface Grafted Sulfobetaine Polymers via Atom Transfer Radical Polymerization as Superlow Fouling Coatings. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10799-10804.	2.6	497
10	Poly(zwitterionic)protein conjugates offer increased stability without sacrificing binding affinity or bioactivity. <i>Nature Chemistry</i> , 2012, 4, 59-63.	13.6	494
11	Zwitterionic carboxybetaine polymer surfaces and their resistance to long-term biofilm formation. <i>Biomaterials</i> , 2009, 30, 5234-5240.	11.4	465
12	Anti-PEG antibodies in the clinic: Current issues and beyond PEGylation. <i>Journal of Controlled Release</i> , 2016, 244, 184-193.	9.9	465
13	Protein Adsorption on Oligo(ethylene glycol)-Terminated Alkanethiolate Self-Assembled Monolayers: The Molecular Basis for Nonfouling Behavior. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2934-2941.	2.6	461
14	Dual-Functional Biomimetic Materials: Nonfouling Poly(carboxybetaine) with Active Functional Groups for Protein Immobilization. <i>Biomacromolecules</i> , 2006, 7, 3311-3315.	5.4	430
15	Blood compatibility of surfaces with superlow protein adsorption. <i>Biomaterials</i> , 2008, 29, 4285-4291.	11.4	424
16	Ultralow Fouling and Functionalizable Surface Chemistry Based on a Zwitterionic Polymer Enabling Sensitive and Specific Protein Detection in Undiluted Blood Plasma. <i>Analytical Chemistry</i> , 2008, 80, 7894-7901.	6.5	381
17	An New Avenue to Nonfouling Materials. <i>Advanced Materials</i> , 2008, 20, 335-338.	21.0	369
18	A Switchable Biocompatible Polymer Surface with Self-Sterilizing and Nonfouling Capabilities. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8831-8834.	13.8	325

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19	Molecular Simulation Studies of Protein Interactions with Zwitterionic Phosphorylcholine Self-Assembled Monolayers in the Presence of Water. <i>Langmuir</i> , 2008, 24, 10358-10364.	3.5	319
20	Strong Repulsive Forces between Protein and Oligo (Ethylene Glycol) Self-Assembled Monolayers: A Molecular Simulation Study. <i>Biophysical Journal</i> , 2005, 89, 158-166.	0.5	310
21	Spectral surface plasmon resonance biosensor for detection of staphylococcal enterotoxin B in milk. <i>International Journal of Food Microbiology</i> , 2002, 75, 61-69.	4.7	301
22	Pursuing "Zero" Protein Adsorption of Poly(carboxybetaine) from Undiluted Blood Serum and Plasma. <i>Langmuir</i> , 2009, 25, 11911-11916.	3.5	289
23	Highly Protein-Resistant Coatings from Well-Defined Diblock Copolymers Containing Sulfobetaines. <i>Langmuir</i> , 2006, 22, 2222-2226.	3.5	284
24	Quantitative and simultaneous detection of four foodborne bacterial pathogens with a multi-channel SPR sensor. <i>Biosensors and Bioelectronics</i> , 2006, 22, 752-758.	10.1	274
25	Molecular Simulation Study of Water Interactions with Oligo (Ethylene Glycol)-Terminated Alkanethiol Self-Assembled Monolayers. <i>Langmuir</i> , 2004, 20, 8931-8938.	3.5	270
26	Super-hydrophilic zwitterionic poly(carboxybetaine) and amphiphilic non-ionic poly(ethylene glycol) for stealth nanoparticles. <i>Nano Today</i> , 2012, 7, 404-413.	11.9	270
27	Ultra-low fouling peptide surfaces derived from natural amino acids. <i>Biomaterials</i> , 2009, 30, 5892-5896.	11.4	265
28	Sequence, Structure, and Function of Peptide Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , 2012, 134, 6000-6005.	13.7	254
29	Nonfouling Behavior of Polycarboxybetaine-Grafted Surfaces: Structural and Environmental Effects. <i>Biomacromolecules</i> , 2008, 9, 2686-2692.	5.4	244
30	Reversibly Switching the Function of a Surface between Attacking and Defending against Bacteria. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2602-2605.	13.8	237
31	Zwitterionic gel encapsulation promotes protein stability, enhances pharmacokinetics, and reduces immunogenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12046-12051.	7.1	236
32	Polysulfobetaine-Grafted Surfaces as Environmentally Benign Ultralow Fouling Marine Coatings. <i>Langmuir</i> , 2009, 25, 13516-13521.	3.5	235
33	Controlling Antibody Orientation on Charged Self-Assembled Monolayers. <i>Langmuir</i> , 2003, 19, 2859-2864.	3.5	232
34	Ultra low fouling zwitterionic polymers with a biomimetic adhesive group. <i>Biomaterials</i> , 2008, 29, 4592-4597.	11.4	231
35	Improved Method for the Preparation of Carboxylic Acid and Amine Terminated Self-Assembled Monolayers of Alkanethiolates. <i>Langmuir</i> , 2005, 21, 2633-2636.	3.5	230
36	Probing the Surface Hydration of Nonfouling Zwitterionic and PEG Materials in Contact with Proteins. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16881-16888.	8.0	223

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37	Film Thickness Dependence of Protein Adsorption from Blood Serum and Plasma onto Poly(sulfobetaine)-Grafted Surfaces. <i>Langmuir</i> , 2008, 24, 9211-9214.	3.5	220
38	Functionalizable and ultra stable nanoparticles coated with zwitterionic poly(carboxybetaine) in undiluted blood serum. <i>Biomaterials</i> , 2009, 30, 5617-5621.	11.4	216
39	Strong Resistance of a Thin Crystalline Layer of Balanced Charged Groups to Protein Adsorption. <i>Langmuir</i> , 2006, 22, 8186-8191.	3.5	211
40	Softer Zwitterionic Nanogels for Longer Circulation and Lower Splenic Accumulation. <i>ACS Nano</i> , 2012, 6, 6681-6686.	14.6	211
41	Difference in Hydration between Carboxybetaine and Sulfobetaine. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16625-16631.	2.6	198
42	Nanoparticles for Drug Delivery Prepared from Amphiphilic PLGA Zwitterionic Block Copolymers with Sharp Contrast in Polarity between Two Blocks. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3771-3776.	13.8	175
43	Functionalizable and ultra-low fouling zwitterionic surfaces via adhesive mussel mimetic linkages. <i>Biomaterials</i> , 2010, 31, 1486-1492.	11.4	174
44	Protein interactions with oligo(ethylene glycol) (OEG) self-assembled monolayers: OEG stability, surface packing density and protein adsorption. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 1415-1427.	3.5	170
45	Nonfouling Polymer Brushes via Surface-Initiated, Two-Component Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2008, 41, 4216-4219.	4.8	170
46	Functionalizable surface platform with reduced nonspecific protein adsorption from full blood plasma—Material selection and protein immobilization optimization. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1924-1930.	10.1	170
47	Expansion of primitive human hematopoietic stem cells by culture in a zwitterionic hydrogel. <i>Nature Medicine</i> , 2019, 25, 1566-1575.	30.7	162
48	pH responsive properties of non-fouling mixed-charge polymer brushes based on quaternary amine and carboxylic acid monomers. <i>Biomaterials</i> , 2010, 31, 2919-2925.	11.4	159
49	Hierarchical zwitterionic modification of a SERS substrate enables real-time drug monitoring in blood plasma. <i>Nature Communications</i> , 2016, 7, 13437.	12.8	156
50	Molecular level studies on interfacial hydration of zwitterionic and other antifouling polymers in situ. <i>Acta Biomaterialia</i> , 2016, 40, 6-15.	8.3	155
51	Probing the Orientation of Surface-Immobilized Immunoglobulin G by Time-of-Flight Secondary Ion Mass Spectrometry. <i>Langmuir</i> , 2004, 20, 1877-1887.	3.5	152
52	Poly(carboxybetaine) nanomaterials enable long circulation and prevent polymer-specific antibody production. <i>Nano Today</i> , 2014, 9, 10-16.	11.9	151
53	Trimethylamine <i>N</i> -oxide-derived zwitterionic polymers: A new class of ultralow fouling bioinspired materials. <i>Science Advances</i> , 2019, 5, eaaw9562.	10.3	149
54	DNA Directed Protein Immobilization on Mixed ssDNA/Oligo(ethylene glycol) Self-Assembled Monolayers for Sensitive Biosensors. <i>Analytical Chemistry</i> , 2004, 76, 6967-6972.	6.5	148

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55	Molecular Simulation Studies of the Orientation and Conformation of Cytochrome c Adsorbed on Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17418-17424.	2.6	145
56	Functionalizable and nonfouling zwitterionic carboxybetaine hydrogels with a carboxybetaine dimethacrylate crosslinker. <i>Biomaterials</i> , 2011, 32, 961-968.	11.4	143
57	Blood-Inert Surfaces via Ion-Pair Anchoring of Zwitterionic Copolymer Brushes in Human Whole Blood. <i>Advanced Functional Materials</i> , 2013, 23, 1100-1110.	14.9	143
58	Brazilin inhibits amyloid β -protein fibrillogenesis, remodels amyloid fibrils and reduces amyloid cytotoxicity. <i>Scientific Reports</i> , 2015, 5, 7992.	3.3	134
59	Controlled Chemical and Structural Properties of Mixed Self-Assembled Monolayers of Alkanethiols on Au(111). <i>Langmuir</i> , 2000, 16, 9287-9293.	3.5	133
60	Development of Biocompatible Interpenetrating Polymer Networks Containing a Sulfobetaine-Based Polymer and a Segmented Polyurethane for Protein Resistance. <i>Biomacromolecules</i> , 2007, 8, 122-127.	5.4	132
61	Endothelial Cell Migration on Surface-Density Gradients of Fibronectin, VEGF, or Both Proteins. <i>Langmuir</i> , 2007, 23, 11168-11173.	3.5	132
62	DNA-Directed Protein Immobilization on Mixed Self-Assembled Monolayers via a Streptavidin Bridge. <i>Langmuir</i> , 2004, 20, 8090-8095.	3.5	130
63	Zwitterionic poly(carboxybetaine) hydrogels for glucose biosensors in complex media. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2454-2459.	10.1	130
64	Orientation of Adsorbed Antibodies on Charged Surfaces by Computer Simulation Based on a United-Residue Model. <i>Langmuir</i> , 2003, 19, 3472-3478.	3.5	129
65	One-Step Dip Coating of Zwitterionic Sulfobetaine Polymers on Hydrophobic and Hydrophilic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6664-6671.	8.0	123
66	Differences in Cationic and Anionic Charge Densities Dictate Zwitterionic Associations and Stimuli Responses. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6956-6962.	2.6	121
67	Zwitterionic fusion in hydrogels and spontaneous and time-independent self-healing under physiological conditions. <i>Biomaterials</i> , 2014, 35, 3926-3933.	11.4	119
68	Imaging and cell targeting characteristics of magnetic nanoparticles modified by a functionalizable zwitterionic polymer with adhesive 3,4-dihydroxyphenyl-L-alanine linkages. <i>Biomaterials</i> , 2010, 31, 6582-6588.	11.4	117
69	In Situ Probing of the Surface Hydration of Zwitterionic Polymer Brushes: Structural and Environmental Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15840-15845.	3.1	117
70	Surface functionalization for self-referencing surface plasmon resonance (SPR) biosensors by multi-step self-assembly. <i>Sensors and Actuators B: Chemical</i> , 2003, 90, 22-30.	7.8	116
71	Multifunctional and degradable zwitterionic nanogels for targeted delivery, enhanced MR imaging, reduction-sensitive drug release, and renal clearance. <i>Biomaterials</i> , 2011, 32, 4604-4608.	11.4	116
72	Synchronizing nonfouling and antimicrobial properties in a zwitterionic hydrogel. <i>Biomaterials</i> , 2012, 33, 8928-8933.	11.4	116

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73	Origin of repulsive force and structure/dynamics of interfacial water in OEG-protein interactions: a molecular simulation study. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5539.	2.8	112
74	Engineering the Polymer Backbone To Strengthen Nonfouling Sulfobetaine Hydrogels. <i>Langmuir</i> , 2010, 26, 14793-14798.	3.5	112
75	Detection of low-molecular-weight domoic acid using surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 193-201.	7.8	111
76	Comparison of E. coli O157:H7 preparation methods used for detection with surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 202-208.	7.8	111
77	Integrated Antimicrobial and Nonfouling Hydrogels to Inhibit the Growth of Planktonic Bacterial Cells and Keep the Surface Clean. <i>Langmuir</i> , 2010, 26, 10425-10428.	3.5	110
78	Uniform zwitterionic polymer hydrogels with a nonfouling and functionalizable crosslinker using photopolymerization. <i>Biomaterials</i> , 2011, 32, 6893-6899.	11.4	109
79	Molecular simulation study of the c(4 \times 2) superlattice structure of alkanethiol self-assembled monolayers on Au(111). <i>Journal of Chemical Physics</i> , 2002, 117, 7342-7349.	3.0	106
80	A Thermoresponsive Antimicrobial Wound Dressing Hydrogel Based on a Cationic Betaine Ester. <i>Advanced Functional Materials</i> , 2011, 21, 4028-4034.	14.9	106
81	Label-free detection of cancer biomarker candidates using surface plasmon resonance imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1157-1163.	3.7	104
82	Controlled Hierarchical Architecture in Surface-initiated Zwitterionic Polymer Brushes with Structurally Regulated Functionalities. <i>Advanced Materials</i> , 2012, 24, 1834-1837.	21.0	103
83	Effect of Carbon Spacer Length on Zwitterionic Carboxybetaines. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1357-1366.	2.6	101
84	Label-Free Biomarker Sensing in Undiluted Serum with Suspended Microchannel Resonators. <i>Analytical Chemistry</i> , 2010, 82, 1905-1910.	6.5	100
85	Physical, Chemical, and Chemical-Physical Double Network of Zwitterionic Hydrogels. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5327-5332.	2.6	99
86	Zwitterionic Hydrogels: an in Vivo Implantation Study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 1845-1859.	3.5	99
87	Influence of Charged Groups on the Properties of Zwitterionic Moieties: A Molecular Simulation Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7630-7637.	2.6	99
88	Modulation of barnacle (<i>Balanus amphitrite</i> Darwin) cyprid settlement behavior by sulfobetaine and carboxybetaine methacrylate polymer coatings. <i>Biofouling</i> , 2010, 26, 673-683.	2.2	98
89	Superhydrophilic Zwitterionic Polymers Stabilize Liposomes. <i>Langmuir</i> , 2012, 28, 11625-11632.	3.5	96
90	Decoding nonspecific interactions from nature. <i>Chemical Science</i> , 2012, 3, 3488.	7.4	96

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91	Ultra-low fouling and functionalizable zwitterionic coatings grafted onto SiO ₂ via a biomimetic adhesive group for sensing and detection in complex media. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2276-2282.	10.1	95
92	Self-Healing Zwitterionic Microgels as a Versatile Platform for Malleable Cell Constructs and Injectable Therapies. <i>Advanced Materials</i> , 2018, 30, e1803087.	21.0	94
93	Suppressing Surface Reconstruction of Superhydrophobic PDMS Using a Superhydrophilic Zwitterionic Polymer. <i>Biomacromolecules</i> , 2012, 13, 1683-1687.	5.4	93
94	Strong Resistance of Oligo(phosphorylcholine) Self-Assembled Monolayers to Protein Adsorption. <i>Langmuir</i> , 2006, 22, 2418-2421.	3.5	92
95	Hydration of "Nonfouling" Functional Groups. <i>Journal of Physical Chemistry B</i> , 2009, 113, 197-201.	2.6	91
96	Surface hydration for antifouling and bio-adhesion. <i>Chemical Science</i> , 2020, 11, 10367-10377.	7.4	91
97	Layering, freezing transitions, capillary condensation and diffusion of methane in slit carbon pores. <i>Molecular Physics</i> , 1993, 79, 373-391.	1.7	89
98	Controlling DNA Orientation on Mixed ssDNA/OEG SAMs. <i>Langmuir</i> , 2006, 22, 4694-4698.	3.5	89
99	Ultralow Fouling Zwitterionic Polymers Grafted from Surfaces Covered with an Initiator via an Adhesive Mussel Mimetic Linkage. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15269-15274.	2.6	89
100	Stealth Surface Modification of Surface-Enhanced Raman Scattering Substrates for Sensitive and Accurate Detection in Protein Solutions. <i>ACS Nano</i> , 2015, 9, 2668-2676.	14.6	89
101	Zwitterionic polymer-protein conjugates reduce polymer-specific antibody response. <i>Nano Today</i> , 2016, 11, 285-291.	11.9	89
102	Zwitterionic Polymer-Based Platform with Two-Layer Architecture for Ultra Low Fouling and High Protein Loading. <i>Analytical Chemistry</i> , 2012, 84, 3440-3445.	6.5	88
103	Photoiniferter-Mediated Polymerization of Zwitterionic Carboxybetaine Monomers for Low-Fouling and Functionalizable Surface Coatings. <i>Macromolecules</i> , 2011, 44, 9213-9220.	4.8	87
104	Direct cell encapsulation in biodegradable and functionalizable carboxybetaine hydrogels. <i>Biomaterials</i> , 2012, 33, 5706-5712.	11.4	86
105	Novel Zwitterionic-Polymer-Coated Silica Nanoparticles. <i>Langmuir</i> , 2009, 25, 3196-3199.	3.5	84
106	Revealing the Immunogenic Risk of Polymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13873-13876.	13.8	84
107	The hydrolysis of cationic polycarboxybetaine esters to zwitterionic polycarboxybetaines with controlled properties. <i>Biomaterials</i> , 2008, 29, 4719-4725.	11.4	83
108	Reversibly switchable polymer with cationic/zwitterionic/anionic behavior through synergistic protonation and deprotonation. <i>Chemical Science</i> , 2014, 5, 200-205.	7.4	82

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109	High-strength and fibrous capsule-resistant zwitterionic elastomers. <i>Science Advances</i> , 2021, 7, .	10.3	82
110	Comparative study of SPR and ELISA methods based on analysis of CD166/ALCAM levels in cancer and control human sera. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2143-2148.	10.1	81
111	Achieving One-step Surface Coating of Highly Hydrophilic Poly(Carboxybetaine Methacrylate) Polymers on Hydrophobic and Hydrophilic Surfaces. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400071.	3.7	80
112	Achieving Ultralow Fouling under Ambient Conditions via Surface-Initiated ARGET ATRP of Carboxybetaine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9255-9259.	8.0	79
113	Protein Adsorption on Alkanethiolate Self-Assembled Monolayers: Nanoscale Surface Structural and Chemical Effects. <i>Langmuir</i> , 2003, 19, 2974-2982.	3.5	78
114	Molecular Dynamics Simulation Study of Ion Interactions with Zwitterions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8358-8363.	2.6	78
115	Strong Surface Hydration and Salt Resistant Mechanism of a New Nonfouling Zwitterionic Polymer Based on Protein Stabilizer TMAO. <i>Journal of the American Chemical Society</i> , 2021, 143, 16786-16795.	13.7	78
116	Ultra-low fouling and high antibody loading zwitterionic hydrogel coatings for sensing and detection in complex media. <i>Acta Biomaterialia</i> , 2016, 40, 31-37.	8.3	77
117	Understanding the nonfouling mechanism of surfaces through molecular simulations of sugar-based self-assembled monolayers. <i>Journal of Chemical Physics</i> , 2006, 125, 214704.	3.0	76
118	Molecular simulation study of temperature effect on ionic hydration in carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1896.	2.8	76
119	Controlling osteopontin orientation on surfaces to modulate endothelial cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 74A, 23-31.	4.0	73
120	Functionalizable and Ultrastable Zwitterionic Nanogels. <i>Langmuir</i> , 2010, 26, 6883-6886.	3.5	73
121	Biologically Inspired Stealth Peptide-Capped Gold Nanoparticles. <i>Langmuir</i> , 2014, 30, 1864-1870.	3.5	73
122	The effect of lightly crosslinked poly(carboxybetaine) hydrogel coating on the performance of sensors in whole blood. <i>Biomaterials</i> , 2012, 33, 7945-7951.	11.4	71
123	Cellulose Paper Sensors Modified with Zwitterionic Poly(carboxybetaine) for Sensing and Detection in Complex Media. <i>Analytical Chemistry</i> , 2014, 86, 2871-2875.	6.5	71
124	Nonfouling Polyampholytes from an Ion-Pair Comonomer with Biomimetic Adhesive Groups. <i>Macromolecules</i> , 2010, 43, 14-16.	4.8	70
125	Controlled Chemical and Structural Properties of Mixed Self-Assembled Monolayers by Coadsorption of Symmetric and Asymmetric Disulfides on Au(111). <i>Journal of Physical Chemistry B</i> , 2001, 105, 2975-2980.	2.6	69
126	MC3T3-E1 cell adhesion to hydroxyapatite with adsorbed bone sialoprotein, bone osteopontin, and bovine serum albumin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 236-247.	5.0	69

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127	Probing the Surface Hydration of Nonfouling Zwitterionic and Poly(ethylene glycol) Materials with Isotopic Dilution Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8775-8780.	3.1	69
128	Molecular Simulation Study of Alkyl Monolayers on Si(111). <i>Langmuir</i> , 2001, 17, 6275-6281.	3.5	66
129	Direct detection of carcinoembryonic antigen autoantibodies in clinical human serum samples using a surface plasmon resonance sensor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 70, 1-6.	5.0	66
130	Mitigation of Inflammatory Immune Responses with Hydrophilic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4527-4531.	13.8	66
131	Radial Size of a Starburst Dendrimer in Solvents of Varying Quality. <i>Macromolecules</i> , 2002, 35, 7865-7868.	4.8	65
132	Restraint of the Differentiation of Mesenchymal Stem Cells by a Nonfouling Zwitterionic Hydrogel. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12729-12734.	13.8	64
133	Polypeptides with High Zwitterion Density for Safe and Effective Therapeutics. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7743-7747.	13.8	64
134	Local and Bulk Hydration of Zwitterionic Glycine and its Analogues through Molecular Simulations. <i>Journal of Physical Chemistry B</i> , 2011, 115, 660-667.	2.6	63
135	Atomic indentation and friction of self-assembled monolayers by hybrid molecular simulations. <i>Journal of Chemical Physics</i> , 2000, 113, 8800-8806.	3.0	60
136	Ultralow Fouling and Functionalizable Surface Chemistry Based on Zwitterionic Carboxybetaine Random Copolymers. <i>Langmuir</i> , 2019, 35, 1544-1551.	3.5	60
137	A Robust Graft-to Strategy To Form Multifunctional and Stealth Zwitterionic Polymer-Coated Mesoporous Silica Nanoparticles. <i>Biomacromolecules</i> , 2014, 15, 1845-1851.	5.4	59
138	A Coating-Free Nonfouling Polymeric Elastomer. <i>Advanced Materials</i> , 2017, 29, 1700617.	21.0	59
139	Zwitterionic Nanocages Overcome the Efficacy Loss of Biologic Drugs. <i>Advanced Materials</i> , 2018, 30, e1705728.	21.0	59
140	Molecular-Scale Mixed Alkanethiol Monolayers of Different Terminal Groups on Au(111) by Low-Current Scanning Tunneling Microscopy. <i>Langmuir</i> , 2003, 19, 3266-3271.	3.5	58
141	High-Strength and Nonfouling Zwitterionic Triple-Network Hydrogel in Saline Environments. <i>Advanced Materials</i> , 2021, 33, e2102479.	21.0	58
142	Molecular simulation study of nanoscale friction for alkyl monolayers on Si(111). <i>Journal of Chemical Physics</i> , 2002, 117, 1804-1811.	3.0	57
143	Manipulating Sticky and Non-Sticky Properties in a Single Material. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6102-6104.	13.8	57
144	Adsorption, isosteric heat and commensurate-incommensurate transition of methane on graphite. <i>Molecular Physics</i> , 1993, 80, 103-116.	1.7	56

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145	Nanoscavenger provides long-term prophylactic protection against nerve agents in rodents. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	56
146	De novo design of functional zwitterionic biomimetic material for immunomodulation. <i>Science Advances</i> , 2020, 6, eaba0754.	10.3	54
147	Effect of Surface Hydration on Antifouling Properties of Mixed Charged Polymers. <i>Langmuir</i> , 2018, 34, 6538-6545.	3.5	53
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