

Shaoyi Jiang

List of Publications by Year in descending order

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260
papers

29,956
citations

3874

91
h-index

6024

165
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266
all docs

266
docs citations

266
times ranked

22446
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Chain Scissionable Resists for Extreme Ultraviolet Lithography: Discovery of the Photoacid Generator Structure and Mechanism. <i>Chemistry of Materials</i> , 2022, 34, 6170-6181.	3.2	11
2	High-strength and fibrous capsule-resistant zwitterionic elastomers. <i>Science Advances</i> , 2021, 7, .	4.7	82
3	Combination of polycarboxybetaine coating and factor XII inhibitor reduces clot formation while preserving normal tissue coagulation during extracorporeal life support. <i>Biomaterials</i> , 2021, 272, 120778.	5.7	28
4	High-strength and Nonfouling Zwitterionic Triple-network Hydrogel in Saline Environments. <i>Advanced Materials</i> , 2021, 33, e2102479.	11.1	58
5	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.	6.6	78
6	Elucidating Molecular Design Principles for Charge-Alternating Peptides. <i>Biomacromolecules</i> , 2020, 21, 435-443.	2.6	14
7	Surface hydration for antifouling and bio-adhesion. <i>Chemical Science</i> , 2020, 11, 10367-10377.	3.7	91
8	Zwitterionic Peptide Cloak Mimics Protein Surfaces for Protein Protection. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22378-22381.	7.2	38
9	Zwitterionic Peptide Cloak Mimics Protein Surfaces for Protein Protection. <i>Angewandte Chemie</i> , 2020, 132, 22564-22567.	1.6	2
10	Photoreactive Carboxybetaine Copolymers Impart Biocompatibility and Inhibit Plasticizer Leaching on Polyvinyl Chloride. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41026-41037.	4.0	24
11	Zwitterionic Nanoconjugate Enables Safe and Efficient Lymphatic Drug Delivery. <i>Nano Letters</i> , 2020, 20, 4693-4699.	4.5	22
12	De novo design of functional zwitterionic biomimetic material for immunomodulation. <i>Science Advances</i> , 2020, 6, eaba0754.	4.7	54
13	Zwitterionic Polymer Conjugated Glucagon-like Peptide-1 for Prolonged Glycemic Control. <i>Bioconjugate Chemistry</i> , 2020, 31, 1812-1819.	1.8	13
14	Enhanced pulmonary systemic delivery of protein drugs via zwitterionic polymer conjugation. <i>Journal of Controlled Release</i> , 2020, 322, 170-176.	4.8	28
15	Nonfouling Surfaces. , 2020, , 507-513.		8
16	Strong Hydration at the Poly(ethylene glycol) Brush/Albumin Solution Interface. <i>Langmuir</i> , 2020, 36, 2030-2036.	1.6	23
17	Zwitterionic carboxybetaine polymers extend the shelf-life of human platelets. <i>Acta Biomaterialia</i> , 2020, 109, 51-60.	4.1	25
18	Protecting Enzymatic Activity via Zwitterionic Nanocapsulation for the Removal of Phenol Compound from Wastewater. <i>Langmuir</i> , 2019, 35, 1858-1863.	1.6	28

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19	Zwitterionic Hydrogels Based on a Degradable Disulfide Carboxybetaine Cross-Linker. <i>Langmuir</i> , 2019, 35, 1864-1871.	1.6	31
20	In situ real-time tracing of hierarchical targeting nanostructures in drug resistant tumors using diffuse fluorescence tomography. <i>Chemical Science</i> , 2019, 10, 7878-7886.	3.7	17
21	Trimethylamine <i>N</i> -oxide-derived zwitterionic polymers: A new class of ultralow fouling bioinspired materials. <i>Science Advances</i> , 2019, 5, eaaw9562.	4.7	149
22	Zwitterionic poly-carboxybetaine coating reduces artificial lung thrombosis in sheep and rabbits. <i>Acta Biomaterialia</i> , 2019, 92, 71-81.	4.1	47
23	Expansion of primitive human hematopoietic stem cells by culture in a zwitterionic hydrogel. <i>Nature Medicine</i> , 2019, 25, 1566-1575.	15.2	162
24	Zwitterionic Interfaces: Concepts and Emerging Applications Special Issue. <i>Langmuir</i> , 2019, 35, 1055-1055.	1.6	4
25	Nanoscavenger provides long-term prophylactic protection against nerve agents in rodents. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	56
26	Proactively Reducing Anti-Drug Antibodies via Immunomodulatory Bioconjugation. <i>Angewandte Chemie</i> , 2019, 131, 2455-2458.	1.6	0
27	Proactively Reducing Anti-Drug Antibodies via Immunomodulatory Bioconjugation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2433-2436.	7.2	10
28	Absolute Orientations of Water Molecules at Zwitterionic Polymer Interfaces and Interfacial Dynamics after Salt Exposure. <i>Langmuir</i> , 2019, 35, 1327-1334.	1.6	52
29	Evaluating the Effect of Shear Stress on Graft-To Zwitterionic Polycarboxybetaine Coating Stability Using a Flow Cell. <i>Langmuir</i> , 2019, 35, 1984-1988.	1.6	15
30	Ultralow Fouling and Functionalizable Surface Chemistry Based on Zwitterionic Carboxybetaine Random Copolymers. <i>Langmuir</i> , 2019, 35, 1544-1551.	1.6	60
31	Protein Encapsulation: Zwitterionic Nanocages Overcome the Efficacy Loss of Biologic Drugs (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i>	11.1	3
32	Zwitterionic Nanocages Overcome the Efficacy Loss of Biologic Drugs. <i>Advanced Materials</i> , 2018, 30, e1705728.	11.1	59
33	Mitigation of Inflammatory Immune Responses with Hydrophilic Nanoparticles. <i>Angewandte Chemie</i> , 2018, 130, 4617-4621.	1.6	10
34	Mitigation of Inflammatory Immune Responses with Hydrophilic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4527-4531.	7.2	66
35	Polypeptides with High Zwitterion Density for Safe and Effective Therapeutics. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7743-7747.	7.2	64
36	Polypeptides with High Zwitterion Density for Safe and Effective Therapeutics. <i>Angewandte Chemie</i> , 2018, 130, 7869-7873.	1.6	12

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37	A Chromatin-Mimetic Nanomedicine for Therapeutic Tolerance Induction. <i>ACS Nano</i> , 2018, 12, 12004-12014.	7.3	11
38	Self-Healing Zwitterionic Microgel Constructs: Self-Healing Zwitterionic Microgels as a Versatile Platform for Malleable Cell Constructs and Injectable Therapies (<i>Adv. Mater.</i> 39/2018). <i>Advanced Materials</i> , 2018, 30, 1870291.	11.1	5
39	Expressing a Monomeric Organophosphate Hydrolase as an EK Fusion Protein. <i>Bioconjugate Chemistry</i> , 2018, 29, 3686-3690.	1.8	9
40	Zwitterlation mitigates protein bioactivity loss <i>in vitro</i> over PEGylation. <i>Chemical Science</i> , 2018, 9, 8561-8566.	3.7	36
41	Revealing the Immunogenic Risk of Polymers. <i>Angewandte Chemie</i> , 2018, 130, 14069-14072.	1.6	6
42	Self-Healing Zwitterionic Microgels as a Versatile Platform for Malleable Cell Constructs and Injectable Therapies. <i>Advanced Materials</i> , 2018, 30, e1803087.	11.1	94
43	Effect of Surface Hydration on Antifouling Properties of Mixed Charged Polymers. <i>Langmuir</i> , 2018, 34, 6538-6545.	1.6	53
44	Classifying antimicrobial and multifunctional peptides with Bayesian network models. <i>Peptide Science</i> , 2018, 110, e24079.	1.0	15
45	Revealing the Immunogenic Risk of Polymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13873-13876.	7.2	84
46	Achieving Ultralow Fouling under Ambient Conditions via Surface-Initiated ARGET ATRP of Carboxybetaine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9255-9259.	4.0	79
47	Sterilization, hydration-dehydration and tube fabrication of zwitterionic hydrogels. <i>Biointerphases</i> , 2017, 12, 02C411.	0.6	11
48	A Coating-Free Nonfouling Polymeric Elastomer. <i>Advanced Materials</i> , 2017, 29, 1700617.	11.1	59
49	Preface to the Tribute to Keith E. Gubbins, Pioneer in the Theory of Liquids Special Issue. <i>Langmuir</i> , 2017, 33, 11095-11101.	1.6	3
50	Poly(ectoine) Hydrogels Resist Nonspecific Protein Adsorption. <i>Langmuir</i> , 2017, 33, 11264-11269.	1.6	19
51	Paper Sensor Coated with a Poly(carboxybetaine)-Multiple DOPA Conjugate via Dip-Coating for Biosensing in Complex Media. <i>Analytical Chemistry</i> , 2017, 89, 10999-11004.	3.2	49
52	Redefining the Protein-Protein Interface: Coarse Graining and Combinatorics for an Improved Understanding of Amino Acid Contributions to the Protein-Protein Binding Affinity. <i>Langmuir</i> , 2017, 33, 11511-11517.	1.6	3
53	Sensitive and Quantitative Detection of Anti-Poly(ethylene glycol) (PEG) Antibodies by Methoxy-PEG-Coated Surface Plasmon Resonance Sensors. <i>Analytical Chemistry</i> , 2017, 89, 8217-8222.	3.2	20
54	Stable and Functionalizable Quantum Dots with a Thin Zwitterionic Carboxybetaine Layer. <i>Langmuir</i> , 2017, 33, 8784-8789.	1.6	11

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55	Anti-PEG antibodies in the clinic: Current issues and beyond PEGylation. <i>Journal of Controlled Release</i> , 2016, 244, 184-193.	4.8	465
56	Multimodal, Biomaterial-Enabled Focused Anticoagulation via Superlow Fouling Zwitterionic Functional Groups Coupled with Anti-Platelet Nitric Oxide Release. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500646.	1.9	32
57	Directed neural stem cell differentiation on polyaniline-coated high strength hydrogels. <i>Materials Today Chemistry</i> , 2016, 1-2, 15-22.	1.7	42
58	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.	4.1	77
59	Achieving low-fouling surfaces with oppositely charged polysaccharides via LBL assembly. <i>Acta Biomaterialia</i> , 2016, 40, 16-22.	4.1	20
60	Butyrylcholinesterase nanocapsule as a long circulating bioscavenger with reduced immune response. <i>Journal of Controlled Release</i> , 2016, 230, 73-78.	4.8	36
61	Hierarchical design of a polymeric nanovehicle for efficient tumor regression and imaging. <i>Nanoscale</i> , 2016, 8, 9318-9327.	2.8	13
62	Superhydrophilicity and spontaneous spreading on zwitterionic surfaces: carboxybetaine and sulfobetaine. <i>RSC Advances</i> , 2016, 6, 24827-24834.	1.7	40
63	Low-fouling electrospun PLLA films modified with zwitterionic poly(sulfobetaine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50.422 Td	4.1	45
64	Hierarchical zwitterionic modification of a SERS substrate enables real-time drug monitoring in blood plasma. <i>Nature Communications</i> , 2016, 7, 13437.	5.8	156
65	Development of antithrombotic nanoconjugate blocking integrin $\alpha_2\beta_1$ -collagen interactions. <i>Scientific Reports</i> , 2016, 6, 26292.	1.6	6
66	Zwitterionic polymer-protein conjugates reduce polymer-specific antibody response. <i>Nano Today</i> , 2016, 11, 285-291.	6.2	89
67	Molecular level studies on interfacial hydration of zwitterionic and other antifouling polymers in situ. <i>Acta Biomaterialia</i> , 2016, 40, 6-15.	4.1	155
68	Harnessing isomerization-mediated manipulation of nonspecific cell/matrix interactions to reversibly trigger and suspend stem cell differentiation. <i>Chemical Science</i> , 2016, 7, 333-338.	3.7	32
69	Brazin inhibits amyloid β -protein fibrillogenesis, remodels amyloid fibrils and reduces amyloid cytotoxicity. <i>Scientific Reports</i> , 2015, 5, 7992.	1.6	134
70	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.	7.3	89
71	Functionalized plasmonic nanostructure arrays for direct and accurate mapping extracellular pH of living cells in complex media using SERS. <i>Biosensors and Bioelectronics</i> , 2015, 73, 202-207.	5.3	44
72	Probing the Surface Hydration of Nonfouling Zwitterionic and PEG Materials in Contact with Proteins. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16881-16888.	4.0	223

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73	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.	1.5	69
74	EKylation: Addition of an Alternating-Charge Peptide Stabilizes Proteins. <i>Biomacromolecules</i> , 2015, 16, 3357-3361.	2.6	51
75	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.	3.3	236
76	Thermoresponsive self-assembled NiPAm-zwitterion copolymers. <i>Polymer Chemistry</i> , 2015, 6, 1066-1077.	1.9	43
77	Molecular Understanding and Design of Zwitterionic Materials. <i>Advanced Materials</i> , 2015, 27, 15-26.	11.1	682
78	Restraint of the Differentiation of Mesenchymal Stem Cells by a Nonfouling Zwitterionic Hydrogel. <i>Angewandte Chemie</i> , 2014, 126, 12943-12948.	1.6	17
79	Restraint of the Differentiation of Mesenchymal Stem Cells by a Nonfouling Zwitterionic Hydrogel. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12729-12734.	7.2	64
80	Fluorescent porous silicon biological probes with high quantum efficiency and stability. <i>Optics Express</i> , 2014, 22, 29996.	1.7	6
81	Difference of Carboxybetaine and Oligo(ethylene glycol) Moieties in Altering Hydrophobic Interactions: A Molecular Simulation Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 189-194.	1.2	32
82	Chemical insights into dodecylamine spore lethal germination. <i>Chemical Science</i> , 2014, 5, 3320-3324.	3.7	5
83	Reversibly switchable polymer with cationic/zwitterionic/anionic behavior through synergistic protonation and deprotonation. <i>Chemical Science</i> , 2014, 5, 200-205.	3.7	82
84	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.	1.2	99
85	Differences in Cationic and Anionic Charge Densities Dictate Zwitterionic Associations and Stimuli Responses. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6956-6962.	1.2	121
86	A Green Chemistry-Oriented Sporicidal Cocktail. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1734-1738.	3.2	0
87	One-Step Dip Coating of Zwitterionic Sulfobetaine Polymers on Hydrophobic and Hydrophilic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6664-6671.	4.0	123
88	Integrated Antimicrobial and Nonfouling Zwitterionic Polymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1746-1754.	7.2	516
89	A Robust Graft-to Strategy To Form Multifunctional and Stealth Zwitterionic Polymer-Coated Mesoporous Silica Nanoparticles. <i>Biomacromolecules</i> , 2014, 15, 1845-1851.	2.6	59
90	Cross-Linked Carboxybetaine SAMs Enable Nanoparticles with Remarkable Stability in Complex Media. <i>Langmuir</i> , 2014, 30, 2522-2529.	1.6	17

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91	Zwitterionic fusion in hydrogels and spontaneous and time-independent self-healing under physiological conditions. <i>Biomaterials</i> , 2014, 35, 3926-3933.	5.7	119
92	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.	1.9	80
93	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.	1.5	117
94	Poly(carboxybetaine) nanomaterials enable long circulation and prevent polymer-specific antibody production. <i>Nano Today</i> , 2014, 9, 10-16.	6.2	151
95	Biologically Inspired Stealth Peptide-Capped Gold Nanoparticles. <i>Langmuir</i> , 2014, 30, 1864-1870.	1.6	73
96	Cellulose Paper Sensors Modified with Zwitterionic Poly(carboxybetaine) for Sensing and Detection in Complex Media. <i>Analytical Chemistry</i> , 2014, 86, 2871-2875.	3.2	71
97	Engineering Buffering and Hydrolytic or Photolabile Charge Shifting in a Polycarboxybetaine Ester Gene Delivery Platform. <i>Biomacromolecules</i> , 2013, 14, 1587-1593.	2.6	43
98	Surface initiated atom transfer radical polymerization grafting of sodium styrene sulfonate from titanium and silicon substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, 06F103.	0.9	8
99	In situ controlled growth of well-dispersed Au nanoparticles inside the channels of SBA-15 using a simple, bio-inspired method for surface-enhanced Raman spectroscopy. <i>RSC Advances</i> , 2013, 3, 10154.	1.7	12
100	Effect of Carbon Spacer Length on Zwitterionic Carboxybetaines. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1357-1366.	1.2	101
101	Zwitterionic polymer-modified silicon microring resonators for label-free biosensing in undiluted human plasma. <i>Biosensors and Bioelectronics</i> , 2013, 42, 100-105.	5.3	44
102	Directly Functionalizable Surface Platform for Protein Arrays in Undiluted Human Blood Plasma. <i>Analytical Chemistry</i> , 2013, 85, 1447-1453.	3.2	41
103	Hydrolytic Cationic Ester Microparticles for Highly Efficient DNA Vaccine Delivery. <i>Small</i> , 2013, 9, 3439-3444.	5.2	36
104	Zwitterionic hydrogels implanted in mice resist the foreign-body reaction. <i>Nature Biotechnology</i> , 2013, 31, 553-556.	9.4	787
105	Screening nonspecific interactions of peptides without background interference. <i>Biomaterials</i> , 2013, 34, 1871-1877.	5.7	38
106	Blood-Inert Surfaces via Ion-Pair Anchoring of Zwitterionic Copolymer Brushes in Human Whole Blood. <i>Advanced Functional Materials</i> , 2013, 23, 1100-1110.	7.8	143
107	Functional Optical Imaging-based Biosensors Characterize Zwitterionic Coatings on SiO ₂ for Cancer Biomarker Detection. , 2012, , 20-42.		0
108	Two-Layer Architecture Using Atom Transfer Radical Polymerization for Enhanced Sensing and Detection in Complex Media. <i>Biomacromolecules</i> , 2012, 13, 4049-4056.	2.6	21

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109	Sequence, Structure, and Function of Peptide Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , 2012, 134, 6000-6005.	6.6	254
110	Dry Film Refractive Index as an Important Parameter for Ultra-Low Fouling Surface Coatings. <i>Biomacromolecules</i> , 2012, 13, 589-593.	2.6	37
111	Superhydrophilic Zwitterionic Polymers Stabilize Liposomes. <i>Langmuir</i> , 2012, 28, 11625-11632.	1.6	96
112	Improved Mechanical Properties of Zwitterionic Hydrogels with Hydroxyl Groups. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5766-5770.	1.2	36
113	Suppressing Surface Reconstruction of Superhydrophobic PDMS Using a Superhydrophilic Zwitterionic Polymer. <i>Biomacromolecules</i> , 2012, 13, 1683-1687.	2.6	93
114	Decoding nonspecific interactions from nature. <i>Chemical Science</i> , 2012, 3, 3488.	3.7	96
115	The effect of lightly crosslinked poly(carboxybetaine) hydrogel coating on the performance of sensors in whole blood. <i>Biomaterials</i> , 2012, 33, 7945-7951.	5.7	71
116	Synchronizing nonfouling and antimicrobial properties in a zwitterionic hydrogel. <i>Biomaterials</i> , 2012, 33, 8928-8933.	5.7	116
117	Super-hydrophilic zwitterionic poly(carboxybetaine) and amphiphilic non-ionic poly(ethylene glycol) for stealth nanoparticles. <i>Nano Today</i> , 2012, 7, 404-413.	6.2	270
118	Poly(zwitterionic)protein conjugates offer increased stability without sacrificing binding affinity or bioactivity. <i>Nature Chemistry</i> , 2012, 4, 59-63.	6.6	494
119	Role of Nonspecific Interactions in Molecular Chaperones through Model-Based Bioinformatics. <i>Biophysical Journal</i> , 2012, 103, 2484-2491.	0.2	11
120	Simple and Robust Approach for Passivating and Functionalizing Surfaces for Use in Complex Media. <i>Langmuir</i> , 2012, 28, 9707-9713.	1.6	31
121	Zwitterionic Polymer-Based Platform with Two-Layer Architecture for Ultra Low Fouling and High Protein Loading. <i>Analytical Chemistry</i> , 2012, 84, 3440-3445.	3.2	88
122	High Viability of Cells Encapsulated in Degradable Poly(carboxybetaine) Hydrogels. <i>Langmuir</i> , 2012, 28, 17778-17784.	1.6	30
123	Softer Zwitterionic Nanogels for Longer Circulation and Lower Splenic Accumulation. <i>ACS Nano</i> , 2012, 6, 6681-6686.	7.3	211
124	Internal Architecture of Zwitterionic Polymer Brushes Regulates Nonfouling Properties. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1003-1007.	2.0	38
125	Reversibly Switching the Function of a Surface between Attacking and Defending against Bacteria. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2602-2605.	7.2	237
126	Divalent cation-mediated polysaccharide interactions with zwitterionic surfaces. <i>Biomaterials</i> , 2012, 33, 2001-2006.	5.7	51

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127	Interactions of alginate-producing and -deficient <i>Pseudomonas aeruginosa</i> with zwitterionic polymers. <i>Biomaterials</i> , 2012, 33, 3626-3631.	5.7	28
128	Direct cell encapsulation in biodegradable and functionalizable carboxybetaine hydrogels. <i>Biomaterials</i> , 2012, 33, 5706-5712.	5.7	86
129	Controlled Hierarchical Architecture in Surface-Initiated Zwitterionic Polymer Brushes with Structurally Regulated Functionalities. <i>Advanced Materials</i> , 2012, 24, 1834-1837.	11.1	103
130	Molecular Dynamics Simulation Study of Ion Interactions with Zwitterions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8358-8363.	1.2	78
131	Carboxybetaine Methacrylate Polymers Offer Robust, Long-Term Protection against Cell Adhesion. <i>Langmuir</i> , 2011, 27, 10800-10804.	1.6	20
132	Water Mobility: A Bridge between the Hofmeister Series of Ions and the Friction of Zwitterionic Surfaces in Aqueous Environments. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15525-15531.	1.5	21
133	Understanding Three Hydration-Dependent Transitions of Zwitterionic Carboxybetaine Hydrogel by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11575-11580.	1.2	23
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.	1.2	63
135	Photoiniferter-Mediated Polymerization of Zwitterionic Carboxybetaine Monomers for Low-Fouling and Functionalizable Surface Coatings. <i>Macromolecules</i> , 2011, 44, 9213-9220.	2.2	87
136	Thermodynamics of Water Stabilization of Carboxybetaine Hydrogels from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1757-1760.	2.1	18
137	Surface Plasmon Resonance Biosensor for Determination of Tetrodotoxin: Prevalidation Study. <i>Journal of AOAC INTERNATIONAL</i> , 2011, 94, 596-604.	0.7	12
138	Tetrodotoxin Detection by a Surface Plasmon Resonance Sensor in Pufferfish Matrices and Urine. <i>Journal of Sensors</i> , 2011, 2011, 1-10.	0.6	24
139	Uniform zwitterionic polymer hydrogels with a nonfouling and functionalizable crosslinker using photopolymerization. <i>Biomaterials</i> , 2011, 32, 6893-6899.	5.7	109
140	Single nonfouling hydrogels with mechanical and chemical functionality gradients. <i>Biomaterials</i> , 2011, 32, 8456-8461.	5.7	29
141	A Thermoresponsive Antimicrobial Wound Dressing Hydrogel Based on a Cationic Betaine Ester. <i>Advanced Functional Materials</i> , 2011, 21, 4028-4034.	7.8	106
142	Manipulating Sticky and Non-Sticky Properties in a Single Material. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6102-6104.	7.2	57
143	Zwitterionic poly(carboxybetaine) hydrogels for glucose biosensors in complex media. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2454-2459.	5.3	130
144	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.	5.7	116

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145	Functionalizable and nonfouling zwitterionic carboxybetaine hydrogels with a carboxybetaine dimethacrylate crosslinker. <i>Biomaterials</i> , 2011, 32, 961-968.	5.7	143
146	Chaotrope vs. kosmotrope: Which one has lower friction?. <i>Journal of Chemical Physics</i> , 2011, 135, 154702.	1.2	4
147	Ultralow Fouling, Functionalizable, and Hydrolyzable Zwitterionic Materials and Their Derivatives for Biological Applications. <i>Advanced Materials</i> , 2010, 22, 920-932.	11.1	1,697
148	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.	7.2	175
149	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.	5.7	159
150	Functionalizable and ultra-low fouling zwitterionic surfaces via adhesive mussel mimetic linkages. <i>Biomaterials</i> , 2010, 31, 1486-1492.	5.7	174
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