

Shaoyi Jiang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

264
papers

25,430
citations

85
h-index

153
g-index

266
ext. papers

27,704
ext. citations

8.4
avg, IF

7.32
L-index

#	Paper	IF	Citations
264	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	15.6	5
263	High-strength and fibrous capsule-resistant zwitterionic elastomers. <i>Science Advances</i> , 2021 , 7,	14.3	26
262	High-Strength and Nonfouling Zwitterionic Triple-Network Hydrogel in Saline Environments. <i>Advanced Materials</i> , 2021 , 33, e2102479	24	15
261	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	16.4	18
260	Zwitterionic Nanoconjugate Enables Safe and Efficient Lymphatic Drug Delivery. <i>Nano Letters</i> , 2020 , 20, 4693-4699	11.5	7
259	De novo design of functional zwitterionic biomimetic material for immunomodulation. <i>Science Advances</i> , 2020 , 6, eaba0754	14.3	20
258	Zwitterionic Polymer Conjugated Glucagon-like Peptide-1 for Prolonged Glycemic Control. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1812-1819	6.3	6
257	Enhanced pulmonary systemic delivery of protein drugs via zwitterionic polymer conjugation. <i>Journal of Controlled Release</i> , 2020 , 322, 170-176	11.7	12
256	Nonfouling Surfaces 2020 , 507-513		1
255	Strong Hydration at the Poly(ethylene glycol) Brush/Albumin Solution Interface. <i>Langmuir</i> , 2020 , 36, 2030-2036	4	14
254	Zwitterionic carboxybetaine polymers extend the shelf-life of human platelets. <i>Acta Biomaterialia</i> , 2020 , 109, 51-60	10.8	10
253	Elucidating Molecular Design Principles for Charge-Alternating Peptides. <i>Biomacromolecules</i> , 2020 , 21, 435-443	6.9	5
252	Surface hydration for antifouling and bio-adhesion. <i>Chemical Science</i> , 2020 , 11, 10367-10377	9.4	39
251	Zwitterionic Peptide Cloak Mimics Protein Surfaces for Protein Protection. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22378-22381	16.4	11
250	Zwitterionic Peptide Cloak Mimics Protein Surfaces for Protein Protection. <i>Angewandte Chemie</i> , 2020 , 132, 22564-22567	3.6	1
249	Photoreactive Carboxybetaine Copolymers Impart Biocompatibility and Inhibit Plasticizer Leaching on Polyvinyl Chloride. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41026-41037	9.5	8
248	Trimethylamine -oxide-derived zwitterionic polymers: A new class of ultralow fouling bioinspired materials. <i>Science Advances</i> , 2019 , 5, eaaw9562	14.3	81

247	Zwitterionic poly-carboxybetaine coating reduces artificial lung thrombosis in sheep and rabbits. <i>Acta Biomaterialia</i> , 2019 , 92, 71-81	10.8	17
246	Protecting Enzymatic Activity via Zwitterionic Nanocapsulation for the Removal of Phenol Compound from Wastewater. <i>Langmuir</i> , 2019 , 35, 1858-1863	4	22
245	Zwitterionic Hydrogels Based on a Degradable Disulfide Carboxybetaine Cross-Linker. <i>Langmuir</i> , 2019 , 35, 1864-1871	4	18
244	real-time tracing of hierarchical targeting nanostructures in drug resistant tumors using diffuse fluorescence tomography. <i>Chemical Science</i> , 2019 , 10, 7878-7886	9.4	12
243	Expansion of primitive human hematopoietic stem cells by culture in a zwitterionic hydrogel. <i>Nature Medicine</i> , 2019 , 25, 1566-1575	50.5	85
242	Zwitterionic Interfaces: Concepts and Emerging Applications Special Issue. <i>Langmuir</i> , 2019 , 35, 1055	4	4
241	Nanoscavenger provides long-term prophylactic protection against nerve agents in rodents. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	39
240	Proactively Reducing Anti-Drug Antibodies via Immunomodulatory Bioconjugation. <i>Angewandte Chemie</i> , 2019 , 131, 2455-2458	3.6	
239	Proactively Reducing Anti-Drug Antibodies via Immunomodulatory Bioconjugation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2433-2436	16.4	6
238	Absolute Orientations of Water Molecules at Zwitterionic Polymer Interfaces and Interfacial Dynamics after Salt Exposure. <i>Langmuir</i> , 2019 , 35, 1327-1334	4	36
237	Evaluating the Effect of Shear Stress on Graft-To Zwitterionic Polycarboxybetaine Coating Stability Using a Flow Cell. <i>Langmuir</i> , 2019 , 35, 1984-1988	4	8
236	Ultralow Fouling and Functionalizable Surface Chemistry Based on Zwitterionic Carboxybetaine Random Copolymers. <i>Langmuir</i> , 2019 , 35, 1544-1551	4	40
235	Protein Encapsulation: Zwitterionic Nanocages Overcome the Efficacy Loss of Biologic Drugs (Adv. Mater. 14/2018). <i>Advanced Materials</i> , 2018 , 30, 1870101	24	2
234	Zwitterionic Nanocages Overcome the Efficacy Loss of Biologic Drugs. <i>Advanced Materials</i> , 2018 , 30, e1705728	24	46
233	Mitigation of Inflammatory Immune Responses with Hydrophilic Nanoparticles. <i>Angewandte Chemie</i> , 2018 , 130, 4617-4621	3.6	7
232	Mitigation of Inflammatory Immune Responses with Hydrophilic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4527-4531	16.4	52
231	Polypeptides with High Zwitterion Density for Safe and Effective Therapeutics. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7743-7747	16.4	48
230	Polypeptides with High Zwitterion Density for Safe and Effective Therapeutics. <i>Angewandte Chemie</i> , 2018 , 130, 7869-7873	3.6	8

229	Self-Healing Zwitterionic Microgels as a Versatile Platform for Malleable Cell Constructs and Injectable Therapies. <i>Advanced Materials</i> , 2018 , 30, e1803087	24	59
228	Effect of Surface Hydration on Antifouling Properties of Mixed Charged Polymers. <i>Langmuir</i> , 2018 , 34, 6538-6545	4	40
227	Classifying antimicrobial and multifunctional peptides with Bayesian network models. <i>Peptide Science</i> , 2018 , 110, e24079	3	8
226	Revealing the Immunogenic Risk of Polymers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13873-13877	3.6	4
225	A Chromatin-Mimetic Nanomedicine for Therapeutic Tolerance Induction. <i>ACS Nano</i> , 2018 , 12, 12004-12014	10.4	7
224	Self-Healing Zwitterionic Microgel Constructs: Self-Healing Zwitterionic Microgels as a Versatile Platform for Malleable Cell Constructs and Injectable Therapies (Adv. Mater. 39/2018). <i>Advanced Materials</i> , 2018 , 30, 1870291	24	5
223	Expressing a Monomeric Organophosphate Hydrolase as an EK Fusion Protein. <i>Bioconjugate Chemistry</i> , 2018 , 29, 3686-3690	6.3	7
222	Zwitterlation mitigates protein bioactivity loss over PEGylation. <i>Chemical Science</i> , 2018 , 9, 8561-8566	9.4	19
221	Revealing the Immunogenic Risk of Polymers. <i>Angewandte Chemie</i> , 2018 , 130, 14069-14072	3.6	4
220	Achieving Ultralow Fouling under Ambient Conditions via Surface-Initiated ARGET ATRP of Carboxybetaine. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9255-9259	9.5	62
219	Sterilization, hydration-dehydration and tube fabrication of zwitterionic hydrogels. <i>Biointerphases</i> , 2017 , 12, 02C411	1.8	4
218	A Coating-Free Nonfouling Polymeric Elastomer. <i>Advanced Materials</i> , 2017 , 29, 1700617	24	50
217	Preface to the Tribute to Keith E. Gubbins, Pioneer in the Theory of Liquids Special Issue. <i>Langmuir</i> , 2017 , 33, 11095-11101	4	3
216	Poly(ectoine) Hydrogels Resist Nonspecific Protein Adsorption. <i>Langmuir</i> , 2017 , 33, 11264-11269	4	15
215	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	7.8	35
214	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	4	1
213	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	7.8	15
212	Stable and Functionalizable Quantum Dots with a Thin Zwitterionic Carboxybetaine Layer. <i>Langmuir</i> , 2017 , 33, 8784-8789	4	9

211	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	9.4	27
210	Low-fouling electrospun PLLA films modified with zwitterionic poly(sulfobetaine methacrylate)-catechol conjugates. <i>Acta Biomaterialia</i> , 2016 , 40, 92-99	10.8	39
209	Hierarchical zwitterionic modification of a SERS substrate enables real-time drug monitoring in blood plasma. <i>Nature Communications</i> , 2016 , 7, 13437	17.4	108
208	Development of antithrombotic nanoconjugate blocking integrin $\alpha 5$ -collagen interactions. <i>Scientific Reports</i> , 2016 , 6, 26292	4.9	4
207	Zwitterionic polymer-protein conjugates reduce polymer-specific antibody response. <i>Nano Today</i> , 2016 , 11, 285-291	17.9	65
206	Molecular level studies on interfacial hydration of zwitterionic and other antifouling polymers in situ. <i>Acta Biomaterialia</i> , 2016 , 40, 6-15	10.8	110
205	Anti-PEG antibodies in the clinic: Current issues and beyond PEGylation. <i>Journal of Controlled Release</i> , 2016 , 244, 184-193	11.7	319
204	Multimodal, Biomaterial-Focused Anticoagulation via Superlow Fouling Zwitterionic Functional Groups Coupled with Anti-Platelet Nitric Oxide Release. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500646 ^{4.6}	4.6	30
203	Directed neural stem cell differentiation on polyaniline-coated high strength hydrogels. <i>Materials Today Chemistry</i> , 2016 , 1-2, 15-22	6.2	32
202	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	10.8	67
201	Achieving low-fouling surfaces with oppositely charged polysaccharides via LBL assembly. <i>Acta Biomaterialia</i> , 2016 , 40, 16-22	10.8	17
200	Butyrylcholinesterase nanocapsule as a long circulating bioscavenger with reduced immune response. <i>Journal of Controlled Release</i> , 2016 , 230, 73-8	11.7	32
199	Hierarchical design of a polymeric nanovehicle for efficient tumor regression and imaging. <i>Nanoscale</i> , 2016 , 8, 9318-27	7.7	8
198	Superhydrophilicity and spontaneous spreading on zwitterionic surfaces: carboxybetaine and sulfobetaine. <i>RSC Advances</i> , 2016 , 6, 24827-24834	3.7	33
197	Stealth surface modification of surface-enhanced Raman scattering substrates for sensitive and accurate detection in protein solutions. <i>ACS Nano</i> , 2015 , 9, 2668-76	16.7	75
196	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	11.8	35
195	Probing the Surface Hydration of Nonfouling Zwitterionic and PEG Materials in Contact with Proteins. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16881-8	9.5	171
194	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	3.8	54

193	EKylation: Addition of an Alternating-Charge Peptide Stabilizes Proteins. <i>Biomacromolecules</i> , 2015 , 16, 3357-61	6.9	37
192	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, 12046-51	11.5	196
191	Thermoresponsive self-assembled NiPAm-zwitterion copolymers. <i>Polymer Chemistry</i> , 2015 , 6, 1066-1077	4.9	38
190	Molecular understanding and design of zwitterionic materials. <i>Advanced Materials</i> , 2015 , 27, 15-26	24	501
189	Brazilin inhibits amyloid β protein fibrillogenesis, remodels amyloid fibrils and reduces amyloid cytotoxicity. <i>Scientific Reports</i> , 2015 , 5, 7992	4.9	96
188	Zwitterionische Polymere mit antimikrobiellen und Nonfouling-Eigenschaften. <i>Angewandte Chemie</i> , 2014 , 126, 1774-1782	3.6	19
187	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, 189-94	3.4	26
186	Chemical insights into dodecylamine spore lethal germination. <i>Chemical Science</i> , 2014 , 5, 3320-3324	9.4	4
185	Reversibly switchable polymer with cationic/zwitterionic/anionic behavior through synergistic protonation and deprotonation. <i>Chemical Science</i> , 2014 , 5, 200-205	9.4	71
184	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	3.4	74
183	Differences in cationic and anionic charge densities dictate zwitterionic associations and stimuli responses. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6956-62	3.4	93
182	A Green Chemistry-Oriented Sporicidal Cocktail. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1738-1738	4.7	1738
181	One-step dip coating of zwitterionic sulfobetaine polymers on hydrophobic and hydrophilic surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6664-71	9.5	101
180	Integrated antimicrobial and nonfouling zwitterionic polymers. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1746-54	16.4	426
179	A robust graft-to strategy to form multifunctional and stealth zwitterionic polymer-coated mesoporous silica nanoparticles. <i>Biomacromolecules</i> , 2014 , 15, 1845-51	6.9	54
178	Cross-linked carboxybetaine SAMs enable nanoparticles with remarkable stability in complex media. <i>Langmuir</i> , 2014 , 30, 2522-9	4	16
177	Zwitterionic fusion in hydrogels and spontaneous and time-independent self-healing under physiological conditions. <i>Biomaterials</i> , 2014 , 35, 3926-33	15.6	105
176	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	4.6	63

175	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	3.8	97
174	Poly(carboxybetaine) nanomaterials enable long circulation and prevent polymer-specific antibody production. <i>Nano Today</i> , 2014 , 9, 10-16	17.9	122
173	Biologically inspired stealth peptide-capped gold nanoparticles. <i>Langmuir</i> , 2014 , 30, 1864-70	4	56
172	Cellulose paper sensors modified with zwitterionic poly(carboxybetaine) for sensing and detection in complex media. <i>Analytical Chemistry</i> , 2014 , 86, 2871-5	7.8	63
171	Restraint of the Differentiation of Mesenchymal Stem Cells by a Nonfouling Zwitterionic Hydrogel. <i>Angewandte Chemie</i> , 2014 , 126, 12943-12948	3.6	9
170	Restraint of the differentiation of mesenchymal stem cells by a nonfouling zwitterionic hydrogel. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12729-34	16.4	50
169	Fluorescent porous silicon biological probes with high quantum efficiency and stability. <i>Optics Express</i> , 2014 , 22, 29996-30003	3.3	5
168	Engineering buffering and hydrolytic or photolabile charge shifting in a polycarboxybetaine ester gene delivery platform. <i>Biomacromolecules</i> , 2013 , 14, 1587-93	6.9	39
167	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, 6F103	2.9	5
166	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	3.7	12
165	Effect of carbon spacer length on zwitterionic carboxybetaines. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1357-66	3.4	77
164	Zwitterionic polymer-modified silicon microring resonators for label-free biosensing in undiluted human plasma. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 100-5	11.8	38
163	Directly functionalizable surface platform for protein arrays in undiluted human blood plasma. <i>Analytical Chemistry</i> , 2013 , 85, 1447-53	7.8	35
162	Hydrolytic cationic ester microparticles for highly efficient DNA vaccine delivery. <i>Small</i> , 2013 , 9, 3439-44	11	25
161	Zwitterionic hydrogels implanted in mice resist the foreign-body reaction. <i>Nature Biotechnology</i> , 2013 , 31, 553-6	44.5	64
160	Screening nonspecific interactions of peptides without background interference. <i>Biomaterials</i> , 2013 , 34, 1871-7	15.6	24
159	Blood-Inert Surfaces via Ion-Pair Anchoring of Zwitterionic Copolymer Brushes in Human Whole Blood. <i>Advanced Functional Materials</i> , 2013 , 23, 1100-1110	15.6	125
158	Divalent cation-mediated polysaccharide interactions with zwitterionic surfaces. <i>Biomaterials</i> , 2012 , 33, 2001-6	15.6	45

157	Interactions of alginate-producing and -deficient <i>Pseudomonas aeruginosa</i> with zwitterionic polymers. <i>Biomaterials</i> , 2012 , 33, 3626-31	15.6	25
156	Direct cell encapsulation in biodegradable and functionalizable carboxybetaine hydrogels. <i>Biomaterials</i> , 2012 , 33, 5706-12	15.6	75
155	Controlled hierarchical architecture in surface-initiated zwitterionic polymer brushes with structurally regulated functionalities. <i>Advanced Materials</i> , 2012 , 24, 1834-7	24	89
154	Functional Optical Imaging-based Biosensors Characterize Zwitterionic Coatings on SiO ₂ for Cancer Biomarker Detection 2012 , 20-42		
153	Two-layer architecture using atom transfer radical polymerization for enhanced sensing and detection in complex media. <i>Biomacromolecules</i> , 2012 , 13, 4049-56	6.9	18
152	Sequence, structure, and function of peptide self-assembled monolayers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6000-5	16.4	186
151	Dry film refractive index as an important parameter for ultra-low fouling surface coatings. <i>Biomacromolecules</i> , 2012 , 13, 589-93	6.9	34
150	Superhydrophilic zwitterionic polymers stabilize liposomes. <i>Langmuir</i> , 2012 , 28, 11625-32	4	81
149	Improved mechanical properties of zwitterionic hydrogels with hydroxyl groups. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5766-70	3.4	22
148	Suppressing surface reconstruction of superhydrophobic PDMS using a superhydrophilic zwitterionic polymer. <i>Biomacromolecules</i> , 2012 , 13, 1683-7	6.9	80
147	Decoding nonspecific interactions from nature. <i>Chemical Science</i> , 2012 , 3, 3488	9.4	74
146	The effect of lightly crosslinked poly(carboxybetaine) hydrogel coating on the performance of sensors in whole blood. <i>Biomaterials</i> , 2012 , 33, 7945-51	15.6	63
145	Synchronizing nonfouling and antimicrobial properties in a zwitterionic hydrogel. <i>Biomaterials</i> , 2012 , 33, 8928-33	15.6	101
144	Super-hydrophilic zwitterionic poly(carboxybetaine) and amphiphilic non-ionic poly(ethylene glycol) for stealth nanoparticles. <i>Nano Today</i> , 2012 , 7, 404-413	17.9	221
143	Role of nonspecific interactions in molecular chaperones through model-based bioinformatics. <i>Biophysical Journal</i> , 2012 , 103, 2484-91	2.9	6
142	Simple and robust approach for passivating and functionalizing surfaces for use in complex media. <i>Langmuir</i> , 2012 , 28, 9707-13	4	29
141	Zwitterionic polymer-based platform with two-layer architecture for ultra low fouling and high protein loading. <i>Analytical Chemistry</i> , 2012 , 84, 3440-5	7.8	79
140	High viability of cells encapsulated in degradable poly(carboxybetaine) hydrogels. <i>Langmuir</i> , 2012 , 28, 17778-84	4	25

139	Softer zwitterionic nanogels for longer circulation and lower splenic accumulation. <i>ACS Nano</i> , 2012 , 6, 6681-6	16.7	170
138	Internal architecture of zwitterionic polymer brushes regulates nonfouling properties. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1003-7	4.8	37
137	Reversibly Switching the Function of a Surface between Attacking and Defending against Bacteria. <i>Angewandte Chemie</i> , 2012 , 124, 2656-2659	3.6	18
136	Reversibly switching the function of a surface between attacking and defending against bacteria. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2602-5	16.4	205
135	Poly(zwitterionic)protein conjugates offer increased stability without sacrificing binding affinity or bioactivity. <i>Nature Chemistry</i> , 2011 , 4, 59-63	17.6	425
134	Local and bulk hydration of zwitterionic glycine and its analogues through molecular simulations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 660-7	3.4	57
133	Photoiniferter-Mediated Polymerization of Zwitterionic Carboxybetaine Monomers for Low-Fouling and Functionalizable Surface Coatings. <i>Macromolecules</i> , 2011 , 44, 9213-9220	5.5	80
132	Thermodynamics of Water Stabilization of Carboxybetaine Hydrogels from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1757-1760	6.4	16
131	Surface Plasmon Resonance Biosensor for Determination of Tetrodotoxin: Prevalidation Study. <i>Journal of AOAC INTERNATIONAL</i> , 2011 , 94, 596-604	1.7	10
130	Tetrodotoxin Detection by a Surface Plasmon Resonance Sensor in Pufferfish Matrices and Urine. <i>Journal of Sensors</i> , 2011 , 2011, 1-10	2	21
129	Uniform zwitterionic polymer hydrogels with a nonfouling and functionalizable crosslinker using photopolymerization. <i>Biomaterials</i> , 2011 , 32, 6893-9	15.6	100
128	Single nonfouling hydrogels with mechanical and chemical functionality gradients. <i>Biomaterials</i> , 2011 , 32, 8456-61	15.6	27
127	A Thermoresponsive Antimicrobial Wound Dressing Hydrogel Based on a Cationic Betaine Ester. <i>Advanced Functional Materials</i> , 2011 , 21, 4028-4034	15.6	90
126	Manipulating Sticky and Non-Sticky Properties in a Single Material. <i>Angewandte Chemie</i> , 2011 , 123, 6226-6228	3.6	7
125	Manipulating sticky and non-sticky properties in a single material. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6102-4	16.4	50
124	Zwitterionic poly(carboxybetaine) hydrogels for glucose biosensors in complex media. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2454-9	11.8	119
123	Molecular dynamics simulation study of ion interactions with zwitterions. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8358-63	3.4	63
122	Carboxybetaine methacrylate polymers offer robust, long-term protection against cell adhesion. <i>Langmuir</i> , 2011 , 27, 10800-4	4	19

121	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	3.8	17
120	Understanding three hydration-dependent transitions of zwitterionic carboxybetaine hydrogel by molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11575-80	3.4	19
119	Multifunctional and degradable zwitterionic nanogels for targeted delivery, enhanced MR imaging, reduction-sensitive drug release, and renal clearance. <i>Biomaterials</i> , 2011 , 32, 4604-8	15.6	100
118	Functionalizable and nonfouling zwitterionic carboxybetaine hydrogels with a carboxybetaine dimethacrylate crosslinker. <i>Biomaterials</i> , 2011 , 32, 961-8	15.6	125
117	Chaotrope vs. kosmotrope: which one has lower friction?. <i>Journal of Chemical Physics</i> , 2011 , 135, 154702	3.9	4
116	Modulation of barnacle (<i>Balanus amphitrite</i> Darwin) cyprid settlement behavior by sulfobetaine and carboxybetaine methacrylate polymer coatings. <i>Biofouling</i> , 2010 , 26, 673-83	3.3	92
115	Functionalizable and ultrastable zwitterionic nanogels. <i>Langmuir</i> , 2010 , 26, 6883-6	4	65
114	Integrated antimicrobial and nonfouling hydrogels to inhibit the growth of planktonic bacterial cells and keep the surface clean. <i>Langmuir</i> , 2010 , 26, 10425-8	4	100
113	Label-free biomarker sensing in undiluted serum with suspended microchannel resonators. <i>Analytical Chemistry</i> , 2010 , 82, 1905-10	7.8	87
112	Difference in hydration between carboxybetaine and sulfobetaine. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16625-31	3.4	158
111	Nonfouling Polyampholytes from an Ion-pair Comonomer with Biomimetic Adhesive Groups. <i>Macromolecules</i> , 2010 , 43, 14-16	5.5	63
110	Engineering the polymer backbone to strengthen nonfouling sulfobetaine hydrogels. <i>Langmuir</i> , 2010 , 26, 14793-8	4	93
109	Ultralow-fouling, functionalizable, and hydrolyzable zwitterionic materials and their derivatives for biological applications. <i>Advanced Materials</i> , 2010 , 22, 920-32	24	1480
108	Nanoparticles for Drug Delivery Prepared from Amphiphilic PLGA Zwitterionic Block Copolymers with Sharp Contrast in Polarity between Two Blocks. <i>Angewandte Chemie</i> , 2010 , 122, 3859-3864	3.6	31
107	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, 3771-6	16.4	152
106	pH responsive properties of non-fouling mixed-charge polymer brushes based on quaternary amine and carboxylic acid monomers. <i>Biomaterials</i> , 2010 , 31, 2919-25	15.6	140
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