Guangyan Qing

List of Publications by Year in Descending Order

125 papers	2,995 citations	29 h-index	49 g-index
135 ext. papers	3,642 ext. citations	9 avg, IF	5.7 L-index

#	Paper	IF	Citations
125	Highly Tough, Stretchable, and Solvent-Resistant Cellulose Nanocrystal Photonic Films for Mechanochromism and Actuator Properties.. *Small*, **2022**, e2107105	11	2
124	Phage display derived peptides for Alzheimer's disease therapy and diagnosis.. *Theranostics*, **2022**, 12, 2041-2062	12.1	3
123	Enrichment of IgG and HRP glycoprotein by dipeptide-based polymeric material.. *Talanta*, **2022**, 241, 123223	6.2	1
122	Biomimetic ion nanochannels for sensing umami substances.. *Biomaterials*, **2022**, 282, 121418	15.6	2
121	High-efficiency two-dimensional separation of natural products based on β-cyclodextrin stationary phase working in both hydrophilic and reversed hydrophobic modes.. *Journal of Chromatography A*, **2022**, 1673, 463069	4.5	
120	One-Step Fabrication of Hot-Water-Repellent Surfaces. *Biomimetics*, **2022**, 7, 72	3.7	
119	Sialylated glycan-modulated biomimetic ion nanochannels driven by carbohydrate–carbohydrate interactions. *NPG Asia Materials*, **2022**, 14,	10.3	1
118	Discerning Tyrosine Phosphorylation from Multiple Phosphorylations Using a Nanofluidic Logic Platform. *Analytical Chemistry*, **2021**, 93, 16113-16122	7.8	0
117	Portable and sensitive detection of non-glucose target by enzyme-encapsulated metal-organic-framework using personal glucose meter. *Biosensors and Bioelectronics*, **2021**, 113819	11.8	2
116	Bright Triplet Self-Trapped Excitons to Dopant Energy Transfer in Halide Double-Perovskite Nanocrystals. *Nano Letters*, **2021**, 21, 8671-8678	11.5	15
115	Cascaded Amplifier Nanoreactor for Efficient Photodynamic Therapy. *ACS Applied Materials & Interfaces*, **2021**, 13, 16075-16083	9.5	7
114	Comment on Preparation of Vortex Porous Graphene Chiral Membrane for Enantioselective Separation. *Analytical Chemistry*, **2021**, 93, 4682-4684	7.8	2
113	Highly Strong and Solvent-Resistant Cellulose Nanocrystal Photonic Films for Optical Coatings. *ACS Applied Materials & Interfaces*, **2021**, 13, 17118-17128	9.5	11
112	Horizontal Motion of a Superhydrophobic Substrate Affects the Drop Bouncing Dynamics. *Physical Review Letters*, **2021**, 126, 234503	7.4	12
111	A methylation-inspired mesoporous coordination polymer for identification and removal of organic pollutants in aqueous solutions. *Journal of Materials Chemistry B*, **2021**, 9, 638-647	7.3	2
110	Sensing Mechanism of Excited-State Intermolecular Hydrogen Bond for Phthalimide: Indispensable Role of Dimethyl Sulfoxide. *Chinese Journal of Chemistry*, **2021**, 39, 1113-1120	4.9	2
109	Optimum Anti-erosion Structures and Anti-erosion Mechanism for Rotatory Samples Inspired by Scorpion Armor of Parabuthus transvaalicus. *Journal of Bionic Engineering*, **2021**, 18, 92-102	2.7	1

108	Self-assembly gel-based dynamic response system for specific recognition of -acetylneuraminic acid. *Journal of Materials Chemistry B*, **2021**, 9, 4690-4699	7.3	1
107	Synchronous oil/water separation and wastewater treatment on a copper-oxide-coated mesh.. *RSC Advances*, **2021**, 11, 17740-17745	3.7	3
106	Precision photothermal therapy and photoacoustic imaging by activatable thermoplasmonics. *Chemical Science*, **2021**, 12, 10097-10105	9.4	5
105	A novel aggregation-induced enhanced emission aromatic molecule: 2-aminophenylboronic acid dimer. *Chemical Science*, **2021**, 12, 12437-12444	9.4	0
104	Synthesis of optically active chiral mesoporous molybdenum carbide film. *Journal of Industrial and Engineering Chemistry*, **2021**, 94, 482-488	6.3	1
103	Precision Spherical Nucleic Acids Enable Sensitive FEN1 Imaging and Controllable Drug Delivery for Cancer-Specific Therapy. *Analytical Chemistry*, **2021**, 93, 11275-11283	7.8	9
102	Solid-state nanopores and nanochannels for the detection of biomolecules. *Chemical Physics Reviews*, **2021**, 2, 021306	4.4	4
101	Multibioinspired JANUS Membranes with Spatial Surface Refreshment for Enhanced Fog Collection. *Advanced Materials Interfaces*, **2021**, 8, 2101212	4.6	2
100	Three-dimensional capillary ratchet-induced liquid directional steering. *Science*, **2021**, 373, 1344-1348	33.3	49
99	Selective electrocatalytic hydroboration of aryl alkenes. *Green Chemistry*, **2021**, 23, 1691-1699	10	7
98	Biomimetic calcium-inactivated ion/molecular channel. *Chemical Communications*, **2021**, 57, 7914-7917	5.8	2
97	Directional Droplet Transport Mediated by Circular Groove Arrays. Part II: Theory of Effect. *Langmuir*, **2021**, 37, 1948-1953	4	11
96	Robust Slippery Liquid-Infused Porous Network Surfaces for Enhanced Anti-icing/Deicing Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 25471-25477	9.5	44
95	High-Efficiency Phosphopeptide and Glycopeptide Simultaneous Enrichment by Hydrogen Bond-based Bifunctional Smart Polymer. *Analytical Chemistry*, **2020**, 92, 6269-6277	7.8	17
94	What Is Hidden Behind Schiff Base Hydrolysis? Dynamic Covalent Chemistry for the Precise Capture of Sialylated Glycans. *Journal of the American Chemical Society*, **2020**, 142, 7627-7637	16.4	12
93	Molecular chirality mediated amyloid formation on phospholipid surfaces. *Chemical Science*, **2020**, 11, 7369-7378	9.4	8
92	cAMP sensitive nanochannels driven by conformational transition of a tripeptide-based smart polymer. *Chemical Communications*, **2020**, 56, 3425-3428	5.8	3
91	One-step process for dual-scale ratchets with enhanced mobility of Leidenfrost droplets. *Journal of Colloid and Interface Science*, **2020**, 569, 229-234	9.3	2

90	Highly selective and sensitive detection of trinitrotoluene by framework-enhanced fluorescence of gold nanoclusters. *Analytica Chimica Acta*, **2020**, 1106, 133-138	6.6	18
89	Effective nanotherapeutic approach for metastatic breast cancer treatment by supplemental oxygenation and imaging-guided phototherapy. *Nano Research*, **2020**, 13, 1111-1121	10	8
88	Recent advancements in polyethyleneimine-based materials and their biomedical, biotechnology, and biomaterial applications. *Journal of Materials Chemistry B*, **2020**, 8, 2951-2973	7.3	51
87	Faceted and Circular Droplet Spreading on Hierarchical Superhydrophobic Surfaces. *Langmuir*, **2020**, 36, 534-539	4	11
86	Biosynthesized Quantum Dot for Facile and Ultrasensitive Electrochemical and Electrochemiluminescence Immunoassay. *Analytical Chemistry*, **2020**, 92, 1598-1604	7.8	22
85	Visible and Reversible Restrict of Molecular Configuration by Copper Ion and Pyrophosphate. *ACS Sensors*, **2020**, 5, 2438-2447	9.2	11
84	Highly Efficient Separation of Methylated Peptides Utilizing Selective Complexation between Lysine and 18-Crown-6. *Analytical Chemistry*, **2020**, 92, 15663-15670	7.8	3
83	Directional Droplet Transport Mediated by Circular Groove Arrays. Part I: Experimental Findings. *Langmuir*, **2020**, 36, 9608-9615	4	17
82	CO2 electrolysis at industrial current densities using anion exchange membrane based electrolyzers. *Science China Chemistry*, **2020**, 63, 1711-1715	7.9	9
81	Functional Nanochannels for Sensing Tyrosine Phosphorylation. *Journal of the American Chemical Society*, **2020**, 142, 16324-16333	16.4	23
80	Smart bio-separation materials. *TrAC - Trends in Analytical Chemistry*, **2020**, 124, 115585	14.6	21
79	Recent advances in hydrophilic interaction liquid interaction chromatography materials for glycopeptide enrichment and glycan separation. *TrAC - Trends in Analytical Chemistry*, **2020**, 124, 115570	14.6	49
78	Smart polymer-based calcium-ion self-regulated nanochannels by mimicking the biological Ca2+-induced Ca2+ release process. *NPG Asia Materials*, **2019**, 11,	10.3	12
77	cAMP-modulated biomimetic ionic nanochannels based on a smart polymer. *Journal of Materials Chemistry B*, **2019**, 7, 3710-3715	7.3	10
76	Chemoselectivity of Pristine Cellulose Nanocrystal Films Driven by Carbohydrate-Carbohydrate Interactions. *ACS Applied Materials & Interfaces*, **2019**, 11, 13114-13122	9.5	17
75	Circularly polarized light modulated supramolecular self-assembly for an azobenzene-based chiral gel.. *RSC Advances*, **2019**, 9, 10360-10363	3.7	6
74	Online Identification of Nonlinear Stochastic Spatiotemporal System With Multiplicative Noise by Robust Optimal Control-Based Kernel Learning Method. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 389-404	10.3	10
73	Droplet Asymmetric Bouncing on Inclined Superhydrophobic Surfaces. *ACS Omega*, **2019**, 4, 12238-12243	3.9	19

72	Magnetic Fe3O4@mTiO2-AIPA Microspheres for Separation of Phosphoproteins and Non-phosphoproteins. *Journal Wuhan University of Technology, Materials Science Edition*, **2019**, 34, 752-759	1	
71	Smart polymers driven by multiple and tunable hydrogen bonds for intact phosphoprotein enrichment. *Science and Technology of Advanced Materials*, **2019**, 20, 858-869	7.1	6
70	Droplet dynamics on slippery surfaces: small droplet, big impact. *Biosurface and Biotribology*, **2019**, 5, 35-45	1	13
69	Biomimetic nanochannels for the discrimination of sialylated glycans a tug-of-war between glycan binding and polymer shrinkage. *Chemical Science*, **2019**, 11, 748-756	9.4	16
68	Click Reaction for Reversible Encapsulation of Single Yeast Cells. *ACS Nano*, **2019**, 13, 14459-14467	16.7	16
67	Plasmonic and Photothermal Immunoassay via Enzyme-Triggered Crystal Growth on Gold Nanostars. *Analytical Chemistry*, **2019**, 91, 2086-2092	7.8	73
66	A biomimetic design for a sialylated, glycan-specific smart polymer. *NPG Asia Materials*, **2018**, 10, e472-e472	10.3	8
65	Sialic acid-triggered macroscopic properties switching on a smart polymer surface. *Applied Surface Science*, **2018**, 427, 1152-1164	6.7	8
64	Novel nanoporous covalent organic frameworks for the selective extraction of endogenous peptides.. *RSC Advances*, **2018**, 8, 37528-37533	3.7	8
63	Selective enrichment of sialylated glycopeptides with a d-allose@SiO matrix.. *RSC Advances*, **2018**, 8, 38780-38786	3.7	5
62	Supramolecular Coordination-Directed Reversible Regulation of Protein Activities at Epigenetic DNA Marks. *Journal of the American Chemical Society*, **2018**, 140, 15842-15849	16.4	11
61	A high-tap-density nanosphere-assembled microcluster to simultaneously enable high gravimetric, areal and volumetric capacities: a case study of TiO2 anode. *Journal of Materials Chemistry A*, **2018**, 6, 11916-11928	13	9
60	Sialic Acid-Responsive Polymeric Interface Material: From Molecular Recognition to Macroscopic Property Switching. *Scientific Reports*, **2017**, 7, 40913	4.9	5
59	New Opportunities and Challenges of Smart Polymers in Post-Translational Modification Proteomics. *Advanced Materials*, **2017**, 29, 1604670	24	32
58	Exploring the role of molecular chirality in the photo-responsiveness of dipeptide-based gels. *Journal of Materials Chemistry B*, **2017**, 5, 3163-3171	7.3	15
57	Hydrogen bond based smart polymer for highly selective and tunable capture of multiply phosphorylated peptides. *Nature Communications*, **2017**, 8, 461	17.4	51
56	Developing an Inositol-Phosphate-Actuated Nanochannel System by Mimicking Biological Calcium Ion Channels. *ACS Applied Materials & Interfaces*, **2017**, 9, 32554-32564	9.5	17
55	Rapid and high-efficiency discrimination of different sialic acid species using dipeptide-based fluorescent sensors. *Analyst, The*, **2017**, 142, 3564-3568	5	8

54	Variation of the Contact Time of Droplets Bouncing on Cylindrical Ridges with Ridge Size. *Langmuir*, **2017**, 33, 7583-7587	4	29
53	Multi-Objective Optimizations of Biodegradable Polymer Stent Structure and Stent Microinjection Molding Process. *Polymers*, **2017**, 9,	4.5	15
52	Sialic Acid-Targeted Biointerface Materials and Bio-Applications. *Polymers*, **2017**, 9,	4.5	18
51	A novel aggregation-induced emission enhancement triggered by the assembly of a chiral gelator: from non-emissive nanofibers to emissive micro-loops. *Chemical Communications*, **2016**, 53, 447-450	5.8	12
50	Superhydrophobic porous networks for enhanced droplet shedding. *Scientific Reports*, **2016**, 6, 33817	4.9	20
49	Identification of Nonlinear Spatiotemporal Dynamical Systems With Nonuniform Observations Using Reproducing-Kernel-Based Integral Least Square Regulation. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 2399-2412	10.3	4
48	Protein/Peptide Aggregation and Amyloidosis on Biointerfaces. *Materials*, **2016**, 9,	3.5	11
47	Stimuli-Directed Helical Chirality Inversion and Bio-Applications. *Polymers*, **2016**, 8,	4.5	29
46	Bioinspired Saccharide-Saccharide Interaction and Smart Polymer for Specific Enrichment of Sialylated Glycopeptides. *ACS Applied Materials & Interfaces*, **2016**, 8, 13294-302	9.5	32
45	Dipeptide-Based Carbohydrate Receptors and Polymers for Glycopeptide Enrichment and Glycan Discrimination. *ACS Applied Materials & Interfaces*, **2016**, 8, 22084-92	9.5	25
44	Approximate controllability of nonlinear stochastic partial differential systems with infinite delay. *Advances in Difference Equations*, **2015**, 2015,	3.6	3
43	Disaccharide-driven transition of macroscopic properties: from molecular recognition to glycopeptide enrichment. *Chemical Communications*, **2015**, 51, 16111-4	5.8	10
42	Dynamic biointerfaces: from recognition to function. *Small*, **2015**, 11, 1097-112	11	45
41	CH-π Interaction Driven Macroscopic Property Transition on Smart Polymer Surface. *Scientific Reports*, **2015**, 5, 15742	4.9	7
40	Surface Stiffness--a Parameter for Sensing the Chirality of Saccharides. *ACS Applied Materials & Interfaces*, **2015**, 7, 27223-33	9.5	18
39	Chiral polymer-based biointerface materials. *Science China Chemistry*, **2014**, 57, 540-551	7.9	9
38	Solvent-driven chiral-interaction reversion for organogel formation. *Angewandte Chemie - International Edition*, **2014**, 53, 2124-9	16.4	64
37	Chiral effect at protein/graphene interface: a bioinspired perspective to understand amyloid formation. *Journal of the American Chemical Society*, **2014**, 136, 10736-42	16.4	86

36	Efficient enrichment of glycopeptides using phenylboronic acid polymer brush modified silica microspheres. *Journal of Materials Chemistry B*, **2014**, 2, 2276-2281	7.3	24
35	Schaltbare Oberfl□hen: chiralit□sinduzierte □derung der Benetzbarkeit und des Massetransfers. *Angewandte Chemie*, **2014**, 126, 946-948	3.6	5
34	New approach for chiral separation: from polysaccharide-based materials to chirality-responsive polymers. *Science China Chemistry*, **2014**, 57, 1492-1506	7.9	15
33	Chirality-driven wettability switching and mass transfer. *Angewandte Chemie - International Edition*, **2014**, 53, 930-2	16.4	34
32	Solvent-Driven Chiral-Interaction Reversion for Organogel Formation. *Angewandte Chemie*, **2014**, 126, 2156-2161	3.6	26
31	Dual-responsive gold nanoparticles for colorimetric recognition and testing of carbohydrates with a dispersion-dominated chromogenic process. *Advanced Materials*, **2013**, 25, 749-54	24	47
30	Smart drug release systems based on stimuli-responsive polymers. *Mini-Reviews in Medicinal Chemistry*, **2013**, 13, 1369-80	3.2	29
29	Chiral biointerface materials. *Chemical Society Reviews*, **2012**, 41, 1972-84	58.5	145
28	The transformation of chiral signals into macroscopic properties of materials using chirality-responsive polymers. *NPG Asia Materials*, **2012**, 4, e4-e4	10.3	47
27	How many lithium ions can be inserted onto fused C6 aromatic ring systems?. *Angewandte Chemie - International Edition*, **2012**, 51, 5147-51	16.4	214
26	Chirality-triggered wettability switching on a smart polymer surface. *Advanced Materials*, **2011**, 23, 1615-20	24	77
25	Biomimetic smart interface materials for biological applications. *Advanced Materials*, **2011**, 23, H57-77	24	225
24	Functional biointerface materials inspired from nature. *Chemical Society Reviews*, **2011**, 40, 2909-21	58.5	228
23	Spatially controlled DNA nanopatterns by "click" chemistry using oligonucleotides with different anchoring sites. *Journal of the American Chemical Society*, **2010**, 132, 15228-32	16.4	33
22	R Naked-eye R enantioselective chemosensors for N-protected amino acid anions bearing thiourea units. *Chirality*, **2009**, 21, 363-73	2.1	28
21	Chromogenic Chemosensors for N-Acetylaspartate Based on Chiral Ferrocene-Bearing Thiourea Derivatives. *European Journal of Organic Chemistry*, **2009**, 2009, 841-849	3.2	18
20	Highly selective fluorescent recognition of phenyl amino alcohol based on ferrocenyl macrocyclic derivatives. *Tetrahedron: Asymmetry*, **2009**, 20, 575-583		16
19	Nucleotide-responsive wettability on a smart polymer surface. *Journal of the American Chemical Society*, **2009**, 131, 8370-1	16.4	81

18	Saccharide-sensitive wettability switching on a smart polymer surface. *Soft Matter*, **2009**, 5, 2759	3.6	47
17	Smart surface of water-induced superhydrophobicity. *Chemical Communications*, **2009**, 2658-60	5.8	33
16	Novel chiral fluorescent chemosensors for malate and acidic amino acids based on two-arm thiourea and amide. *Canadian Journal of Chemistry*, **2008**, 86, 170-176	0.9	15
15	Highly selective fluorescent recognition of amino alcohol based on chiral calix[4]arenes bearing L-tryptophan unit. *Supramolecular Chemistry*, **2008**, 20, 635-641	1.8	11
14	Enantioselective Fluorescent Recognition of Amino Alcohol Based on Calix[4]arenes Bearing Diphenylethylenediamine Units. *Supramolecular Chemistry*, **2008**, 20, 265-271	1.8	5
13	Calix[4]arene-Based Enantioselective Fluorescent Sensors for the Recognition of N-Acetyl-aspartate. *Chinese Journal of Chemistry*, **2008**, 26, 721-728	4.9	9
12	Enantioselective Fluorescent Sensors for Chiral Carboxylates Based on Calix[4]arenes Bearing an L-Tryptophan Unit. *European Journal of Organic Chemistry*, **2007**, 2007, 1768-1778	3.2	54
11	Synthesis and Enantioselective Discrimination of Chiral Fluorescence Receptors Bearing Amino Acid Units. *Chinese Journal of Chemistry*, **2007**, 25, 390-394	4.9	5
10	Chiral Fluorescent Receptors based on Amino Acid Unit: Synthesis and Their Enantioselective Recognition. *Supramolecular Chemistry*, **2007**, 19, 403-409	1.8	13
9	Novel chiral fluorescent macrocyclic receptors: synthesis and recognition for amino acid anions. *Tetrahedron: Asymmetry*, **2006**, 17, 2143-2148		19
8	Calix[4]arene-Based Chromogenic Chemosensor for the □Phenylglycine Anion: Synthesis and Chiral Recognition. *European Journal of Organic Chemistry*, **2006**, 2006, 1574-1580	3.2	49
7	Sensitive fluorescent sensors for malate based on calix[4]arene bearing anthracene. *Tetrahedron: Asymmetry*, **2006**, 17, 3144-3151		24
6	Fluorescent sensors for amino acid anions based on calix[4]arenes bearing two dansyl groups. *Tetrahedron: Asymmetry*, **2005**, 16, 1527-1534		52
5	Synthesis and chiral recognition of novel chiral fluorescence receptors bearing 9-anthryl moieties. *Tetrahedron: Asymmetry*, **2005**, 16, 833-839		34
4	Enantioselective recognition by optically active chiral fluorescence sensors bearing amino acid units. *Tetrahedron: Asymmetry*, **2005**, 16, 3042-3048		29
3	Sensitive chemoselectivity of cellulose nanocrystal films. *Cellulose*,1	5.5	2
2	Bioinspired Sialic Acid Regulated Ion Nanochannel. *Advanced Materials Interfaces*,2200186	4.6	0
1	Multimodal, Convertible, and Chiral Optical Films for Anti-Counterfeiting Labels. *Advanced Functional Materials*,2204487	15.6	4