

# Qingyun Cai

## List of Publications by Year in descending order

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71  
papers

1,224  
citations

331642

21  
h-index

434170

31  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of CdSe Nanoparticles Sensitized Long TiO <sub>2</sub> Nanotube Arrays for Photocatalytic Degradation of Anthracene-9-carboxylic Acid under Green Monochromatic Light. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4783-4789.	3.1	89
2	Highly-luminescent Eu,Sm,Mn-doped CaS up/down conversion nano-particles: application to ultra-sensitive latent fingerprint detection and <i>in vivo</i> bioimaging. <i>Chemical Communications</i> , 2018, 54, 591-594.	4.1	72
3	Surface molecular imprinting on dye-(NH <sub>2</sub> )-SiO <sub>2</sub> NPs for specific recognition and direct fluorescent quantification of perfluorooctane sulfonate. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 266-273.	7.8	59
4	A polymeric approach toward resistance-resistant antimicrobial agent with dual-selective mechanisms of action. <i>Science Advances</i> , 2021, 7, .	10.3	50
5	Highly sensitive and selective photoelectrochemical biosensor platform for polybrominated diphenyl ether detection using the quantum dots sensitized three-dimensional, macroporous ZnO nanosheet photoelectrode. <i>Biosensors and Bioelectronics</i> , 2014, 61, 209-214.	10.1	44
6	A novel VS <sub>2</sub> nanosheet-based biosensor for rapid fluorescence detection of cytochrome c. <i>New Journal of Chemistry</i> , 2015, 39, 1892-1898.	2.8	41
7	Development of a polymeric ionic liquid coating for direct-immersion solid-phase microextraction using polyhedral oligomeric silsesquioxane as cross-linker. <i>Journal of Chromatography A</i> , 2014, 1348, 80-86.	3.7	39
8	A CdS/ZnSe/TiO <sub>2</sub> nanotube array and its visible light photocatalytic activities. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 389-396.	9.4	39
9	Fabrication of layered (CdS-Mn/MoS <sub>2</sub> /CdTe)-promoted TiO <sub>2</sub> nanotube arrays with superior photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 58-66.	9.4	32
10	Fluorescence immunoassay of octachlorostyrene based on Förster resonance energy transfer between CdTe quantum dots and rhodamine B. <i>Biosensors and Bioelectronics</i> , 2014, 60, 52-56.	10.1	31
11	Towards efficient visible-light active photocatalysts: CdS/Au sensitized TiO <sub>2</sub> nanotube arrays. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 287-294.	9.4	31
12	Development of a highly robust solid phase microextraction fiber based on crosslinked methyl methacrylate-polyhedral oligomeric silsesquioxane hybrid polymeric coating. <i>Analytica Chimica Acta</i> , 2013, 792, 45-51.	5.4	30
13	A highly selective and reversible fluorescent Cu <sup>2+</sup> and S <sup>2-</sup> probe under physiological conditions and in live cells. <i>RSC Advances</i> , 2014, 4, 46951-46954.	3.6	30
14	Magnetic solid phase extraction and gas chromatography-mass spectrometrical analysis of sixteen polycyclic aromatic hydrocarbons. <i>Journal of Chromatography A</i> , 2015, 1406, 40-47.	3.7	29
15	An alternatingly amphiphilic, resistance-resistant antimicrobial oligoguanidine with dual mechanisms of action. <i>Biomaterials</i> , 2021, 275, 120858.	11.4	28
16	Linear-hairpin variable primer RT-qPCR for MicroRNA. <i>Chemical Science</i> , 2019, 10, 2034-2043.	7.4	25
17	Multicolor lanthanide-doped CaS and SrS near-infrared stimulated luminescent nanoparticles with bright emission: application in broad-spectrum lighting, information coding, and bio-imaging. <i>Nanoscale</i> , 2019, 11, 12497-12501.	5.6	25
18	A label-free cytochrome c photoelectrochemical aptasensor based on CdS/CuInS <sub>2</sub> /Au/TiO <sub>2</sub> nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 1088-1096.	7.8	25

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19	Development of octadecyl-functionalized-nanotubular TiO <sub>2</sub> /Ti wire solid-phase microextraction fiber. <i>Analyst, The</i> , 2013, 138, 569-575.	3.5	24
20	Polydopamine decorated 3D nickel foam for extraction of sixteen polycyclic aromatic hydrocarbons. <i>Journal of Chromatography A</i> , 2016, 1478, 2-9.	3.7	24
21	Preparation of Bi <sub>0.15</sub> Fe <sub>0.15</sub> TiO <sub>2</sub> Nanocomposites for the Highly Selective Enrichment of Phosphopeptides. <i>Analytical Chemistry</i> , 2018, 90, 12414-12421.	6.5	23
22	Eu,Sm,Mn-Doped CaS Nanoparticles with 59.3% Upconversion-Luminescence Quantum Yield: Enabling Ultrasensitive and Facile Smartphone-Based Sulfite Detection. <i>Analytical Chemistry</i> , 2018, 90, 8658-8664.	6.5	23
23	Carbon-Nanotube-Guiding Oriented Growth of Gold Shrubs on TiO <sub>2</sub> Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7694-7699.	3.1	20
24	ZnCuInSe/Au/TiO <sub>2</sub> sandwich nanowires-based photoelectrochemical biosensor for ultrasensitive detection of kanamycin. <i>Analytica Chimica Acta</i> , 2021, 1146, 166-173.	5.4	20
25	Two-dimensional TiO <sub>2</sub> nanoflakes enable rapid SALDI-TOF-MS detection of toxic small molecules (dyes) Tj ETQq1 1 0.784314 rgBT /Over	5.5	18
26	CdS/ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> 3D-heterostructures and their photoelectrochemical properties. <i>New Journal of Chemistry</i> , 2016, 40, 6675-6685.	2.8	17
27	Magnetic solid phase extraction and static headspace gas chromatography-mass spectrometry method for the analysis of polycyclic aromatic hydrocarbons. <i>Journal of Chromatography A</i> , 2016, 1429, 97-106.	3.7	17
28	Biocompatibility and in vitro antineoplastic drug-loaded trial of titania nanotubes prepared by anodic oxidation of a pure titanium. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2161-2165.	0.8	16
29	Au nanoparticle-modified WO <sub>3</sub> nanoflowers/TiO <sub>2</sub> nanotubes used for the SERS detection of dyes. <i>New Journal of Chemistry</i> , 2017, 41, 13968-13973.	2.8	16
30	Preparation of TiO <sub>2</sub> /Bi/Fe/Zr nanocomposite for the highly selective enrichment of phosphopeptides. <i>Talanta</i> , 2019, 194, 870-875.	5.5	16
31	Electrochemiluminescence aptasensor of TiO <sub>2</sub> /CdS:Mn hybrids for ultrasensitive detection of cytochrome c. <i>Talanta</i> , 2016, 160, 570-576.	5.5	15
32	NaGdF <sub>4</sub> :Nd@NaGdF <sub>4</sub> Core-Shell Down-Conversion Nanoparticles as NIR-II Fluorescent Probes for Targeted Imaging of Bacteria. <i>ACS Applied Nano Materials</i> , 2021, 4, 11231-11238.	5.0	15
33	Potential of Vancomycin: Creating Cooperative Membrane Lysis through a "Derivatization-for-Sensitization" Approach. <i>Journal of the American Chemical Society</i> , 2022, 144, 10622-10639.	13.7	15
34	Polymerization and isomerization cyclic amplification for nucleic acid detection with attomolar sensitivity. <i>Chemical Science</i> , 2021, 12, 4509-4518.	7.4	13
35	Application of magnetic material in the determination of polycyclic aromatic hydrocarbons in tree leaves by high performance liquid chromatography. <i>Analytical Methods</i> , 2011, 3, 2909.	2.7	11
36	Magnetic retrieval of an extractant: fast ultrasound-assisted emulsification liquid-liquid microextraction for the determination of polycyclic aromatic hydrocarbons in environmental water samples. <i>Analytical Methods</i> , 2013, 5, 3999.	2.7	11

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37	Efficient photocatalytic inactivation of E. coli by Mn-CdS/ZnCuInSe/CuInS <sub>2</sub> quantum dots-sensitized TiO <sub>2</sub> nanowires. <i>Nanotechnology</i> , 2020, 31, 395602.	2.6	11
38	An Ag <sub>2</sub> S@ZIF-Van nanosystem for NIR-II imaging of bacterial-induced inflammation and treatment of wound bacterial infection. <i>Biomaterials Science</i> , 2022, 10, 3972-3980.	5.4	11
39	Reduced titania nanosheets as an effective visible-light germicide. <i>Nanotechnology</i> , 2019, 30, 405602.	2.6	10
40	Fe <sup>3+</sup> -Enhanced NIR-to-NIR upconversion nanocrystals for tumor-targeted trimodal bioimaging. <i>New Journal of Chemistry</i> , 2018, 42, 17073-17082.	2.8	9
41	Photoelectrocatalytic Hydrogen Generation Enabled by CdS Passivated ZnCuInSe Quantum Dot-Sensitized TiO <sub>2</sub> Decorated with Ag Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 393.	4.1	9
42	Water-soluble ZnCuInSe quantum dots for bacterial classification, detection, and imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8379-8389.	3.7	9
43	Tissue-Engineered Bone Functionalized with MoS <sub>2</sub> Nanosheets for Enhanced Repair of Critical-Size Bone Defect in Rats. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	9
44	Improving the Hemocompatibility of Antimicrobial Peptidomimetics through Amphiphilicity Masking Using a Secondary Amphiphilic Polymer. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200546.	7.6	9
45	Development of enzyme-linked immunosorbent assay for determination of polybrominated diphenyl ether BDE-121. <i>Analytical Biochemistry</i> , 2014, 447, 49-54.	2.4	8
46	Indirect competitive enzyme-linked immunosorbent assay of tris-(2,3-dibromopropyl) isocyanurate with monoclonal antibody. <i>Talanta</i> , 2014, 128, 434-444.	5.5	8
47	A visible-light-active CuInSe <sub>2</sub> :Zn/g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanowires for photoelectrocatalytic bactericidal effects. <i>New Journal of Chemistry</i> , 2020, 44, 2303-2311.	2.8	8
48	Near-infrared light-triggered $\beta$ -NaYF <sub>4</sub> :Yb,Tm,Gd@MIL-100(Fe) nanomaterials for antibacterial applications. <i>New Journal of Chemistry</i> , 2022, 46, 4806-4813.	2.8	8
49	Homogeneous electrochemiluminescence immunoassay based on tris(2,3-dibromopropyl) isocyanurate using luminol luminescence and Ti/TiO <sub>2</sub> NTs electrode. <i>Analytical Methods</i> , 2013, 5, 3626.	2.7	7
50	Cobalt-doped nanoporous carbon as SALDI-TOF-MS adsorbent and matrix for quantification of cetyltrimethylammonium bromide, Rhodamine B and Malachite Green at sub-ppt levels. <i>Mikrochimica Acta</i> , 2019, 186, 691.	5.0	7
51	Blue Ti <sup>3+</sup> self-doped TiO <sub>2</sub> nanosheets with rich {001} facets for photocatalytic performance. <i>New Journal of Chemistry</i> , 2019, 43, 5759-5765.	2.8	7
52	Bi, Fe, and Ti ternary co-doped ZrO <sub>2</sub> nanocomposites as a mass spectrometry matrix for the determination of bisphenol A and tetrabromobisphenol A in tea. <i>Mikrochimica Acta</i> , 2020, 187, 582.	5.0	7
53	Polymyxin B-modified upconversion nanoparticles for selective detection of Gram-negative bacteria such as <i>Escherichia coli</i> . <i>Journal of Chemical Research</i> , 2020, 44, 756-761.	1.3	7
54	$\beta$ -NaYF <sub>4</sub> :Yb,Er,Gd nanorods@1T/2H-MoS <sub>2</sub> for 980 nm NIR-triggered photocatalytic bactericidal properties. <i>New Journal of Chemistry</i> , 2020, 44, 12201-12207.	2.8	6

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55	Preparation of a CaTiO <sub>3</sub> /Al <sub>3+</sub> /Pr <sub>3+</sub> /Sm <sub>3+</sub> nanocomposite for enrichment of exosomes in human serum. <i>Talanta</i> , 2021, 226, 122186.	5.5	6
56	Alternatingly Amphiphilic Antimicrobial Oligoguanidines: Structure-Property Relationship and Usage as the Coating Material with Unprecedented Hemocompatibility. <i>Chemistry of Materials</i> , 2022, 34, 3670-3682.	6.7	6
57	Measurement of Glucose Concentration in Blood Plasma Based on a Wireless Magnetoelastic Biosensor. <i>Analytical Letters</i> , 2007, 40, 897-906.	1.8	5
58	A degradable, broad-spectrum and resistance-resistant antimicrobial oligoguanidine as a disinfecting and therapeutic agent in aquaculture. <i>Polymer Chemistry</i> , 2022, 13, 3539-3551.	3.9	5
59	One-Step Self-Assembly of ZnPc/KMnF <sub>3</sub> : Yb, Er upconversion Photodynamic Therapy System for Antibacterial Applications. <i>Nano</i> , 2020, 15, 2050075.	1.0	4
60	Preparation of Sm-doped CaZrO <sub>3</sub> nanosheets for facile human serum exosome isolation. <i>New Journal of Chemistry</i> , 2021, 45, 11719-11726.	2.8	4
61	Measurement of Serum Alkaline Phosphatase with a Surface Acoustic Wave Impedance Sensor Device.. <i>Analytical Sciences</i> , 1997, 13, 121-125.	1.6	3
62	Synthesis of haptens and development of an indirect enzyme-linked immunosorbent assay for tris(2,3-dibromopropyl) isocyanurate. <i>Analytical Biochemistry</i> , 2014, 447, 15-22.	2.4	3
63	A Highly Sensitive Electrochemical Immunosensor for the Rapid Detection of Tris(2,3-Dibromopropyl) Isocyanurate. <i>Analytical Letters</i> , 2014, 47, 778-794.	1.8	2
64	SAW enzyme sensor applied to the determination of enzyme kinetic constants with the aid of a non-linear regression algorithm. <i>Mikrochimica Acta</i> , 1997, 126, 109-115.	5.0	1
65	Acid Phosphatase Assay with a Wireless Magnetoelastic Biosensor. <i>Analytical Letters</i> , 2007, 40, 471-482.	1.8	1
66	Effect of anodization on the graphitization of PAN-based carbon fibers of PAN-based carbon fibers. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 926-930.	1.0	1
67	Assay of NAD <sup>+</sup> -Isocitrate Dehydrogenase in Extracts of Bread Yeast with a Surface Acoustic Wave Impedance Sensor.. <i>Analytical Sciences</i> , 1996, 12, 449-453.	1.6	0
68	Acid Phosphatase Assay with a Wireless Magnetoelastic Biosensor. <i>Analytical Letters</i> , 2007, 40, 139-150.	1.8	0
69	A new method for measuring magnetoelastic sensor resonance frequency. , 2009, , .		0
70	Ultrasensitive label-free detection of miRNA with asymmetric hairpin probe, exonuclease I and SYBR Green I. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 244-248.	2.6	0
71	Nano-Coral Gold (NCG) Electrode for Electrochemical Determination of Arsenic (III) in Industrial Wastewater by Square Wave Anodic Stripping Voltammetry (SWASV). <i>Analytical Letters</i> , 2022, 55, 2639-2649.	1.8	0