

# Qingyun Cai

## List of Publications by Year in descending order

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71  
papers

1,224  
citations

331670

21  
h-index

434195

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- $\text{SiO}_2$ 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 Föster 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 $\text{TiO}_2/\text{Ti}$ wire solid-phase microextraction fiber. <i>Analyst</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 $\text{Bi}_{0.15}\text{Fe}_{0.15}\text{TiO}_2$ 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 Shrobs on $\text{TiO}_2$ Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7694-7699.  | 3.1  | 20        |
| 24 | ZnCuInSe/Au/ $\text{TiO}_2$ 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 $\text{TiO}_2$ nanoflakes enable rapid SALDI-TOF-MS detection of toxic small molecules (dyes) <i>Tj ETQq1 1 0,784314,rgBT /Over</i>   | 5.5  | 18        |
| 26 | $\text{CdS}/\text{ZnIn}_2\text{S}_4/\text{TiO}_2$ 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 $\text{WO}_3$ nanoflowers/ $\text{TiO}_2$ nanotubes used for the SERS detection of dyes. <i>New Journal of Chemistry</i> , 2017, 41, 13968-13973.  | 2.8  | 16        |
| 30 | Preparation of $\text{TiO}_2/\text{Bi}/\text{Fe}/\text{Zr}$ nanocomposite for the highly selective enrichment of phosphopeptides. <i>Talanta</i> , 2019, 194, 870-875.  | 5.5  | 16        |
| 31 | Electrochemiluminescence aptasensor of $\text{TiO}_2/\text{CdS}:\text{Mn}$ hybrids for ultrasensitive detection of cytochrome c. <i>Talanta</i> , 2016, 160, 570-576.   | 5.5  | 15        |
| 32 | $\text{NaGdF}_4:\text{Nd}/\text{NaGdF}_4$ 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. Nanotechnology, 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. Biomaterials Science, 2022, 10, 3972-3980.                             | 5.4  | 11        |
| 39 | Reduced titania nanosheets as an effective visible-light germicide. Nanotechnology, 2019, 30, 405602.   | 2.6  | 10        |
| 40 | Fe <sup>3+</sup> -Enhanced NIR-to-NIR upconversion nanocrystals for tumor-targeted trimodal bioimaging. New Journal of Chemistry, 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. Nanomaterials, 2019, 9, 393.                              | 4.1  | 9         |
| 42 | Water-soluble ZnCuInSe quantum dots for bacterial classification, detection, and imaging. Analytical and Bioanalytical Chemistry, 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. Advanced Functional Materials, 2022, 32, .                                     | 14.9 | 9         |
| 44 | Improving the Hemocompatibility of Antimicrobial Peptidomimetics through Amphiphilicity Masking Using a Secondary Amphiphilic Polymer. Advanced Healthcare Materials, 2022, 11, e2200546.                       | 7.6  | 9         |
| 45 | Development of enzyme-linked immunosorbent assay for determination of polybrominated diphenyl ether BDE-121. Analytical Biochemistry, 2014, 447, 49-54.   | 2.4  | 8         |
| 46 | Indirect competitive enzyme-linked immunosorbent assay of tris-(2,3-dibromopropyl) isocyanurate with monoclonal antibody. Talanta, 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. New Journal of Chemistry, 2020, 44, 2303-2311.       | 2.8  | 8         |
| 48 | Near-infrared light-triggered <sup>2</sup> -NaYF <sub>4</sub> :Yb,Tm,Gd@MIL-100(Fe) nanomaterials for antibacterial applications. New Journal of Chemistry, 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. Analytical Methods, 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. Mikrochimica Acta, 2019, 186, 691. | 5.0  | 7         |
| 51 | Blue Ti <sub>3+</sub> self-doped TiO <sub>2</sub> nanosheets with rich {001} facets for photocatalytic performance. New Journal of Chemistry, 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. Mikrochimica Acta, 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> . Journal of Chemical Research, 2020, 44, 756-761.                           | 1.3  | 7         |
| 54 | <sup>2</sup> -NaYF <sub>4</sub> :Yb,Er,Gd nanorods@1T/2H-MoS <sub>2</sub> for 980 nm NIR-triggered photocatalytic bactericidal properties. New Journal of Chemistry, 2020, 44, 12201-12207.                     | 2.8  | 6         |

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|----|--|-----|-----------|
| 55 | Preparation of a CaTiO <sub>3</sub> /Al <sub>3</sub> <sup>+</sup> /Pr <sub>3</sub> <sup>+</sup> /Sm <sub>3</sub> <sup>+</sup> 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         |