

# Zhuo Chen

## List of Publications by Year in descending order

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76  
papers

6,075  
citations

159525

30  
h-index

69214

77  
g-index

79  
all docs

79  
docs citations

79  
times ranked

10070  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                  | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. <i>Nature Nanotechnology</i> , 2009, 4, 773-780.                                                                                     | 15.6 | 1,068     |
| 2  | TiO <sub>2</sub> nanocrystals grown on graphene as advanced photocatalytic hybrid materials. <i>Nano Research</i> , 2010, 3, 701-705.                                                                                    | 5.8  | 693       |
| 3  | Preparation of carbon nanotube bioconjugates for biomedical applications. <i>Nature Protocols</i> , 2009, 4, 1372-1381.                                                                                                  | 5.5  | 398       |
| 4  | Advanced asymmetrical supercapacitors based on graphene hybrid materials. <i>Nano Research</i> , 2011, 4, 729-736.                                                                                                       | 5.8  | 390       |
| 5  | Noncanonical Self-Assembly of Multifunctional DNA Nanoflowers for Biomedical Applications. <i>Journal of the American Chemical Society</i> , 2013, 135, 16438-16445.                                                     | 6.6  | 357       |
| 6  | Precise nanomedicine for intelligent therapy of cancer. <i>Science China Chemistry</i> , 2018, 61, 1503-1552.                                                                                                            | 4.2  | 336       |
| 7  | Protein microarrays with carbon nanotubes as multicolor Raman labels. <i>Nature Biotechnology</i> , 2008, 26, 1285-1292.                                                                                                 | 9.4  | 317       |
| 8  | Simultaneous Application of Photothermal Therapy and an Anti-inflammatory Prodrug using Pyrene-Aspirin-Loaded Gold Nanorod Graphitic Nanocapsules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 177-181. | 7.2  | 169       |
| 9  | Pattern Recognition of Cancer Cells Using Aptamer-Conjugated Magnetic Nanoparticles. <i>ACS Nano</i> , 2012, 6, 3974-3981.                                                                                               | 7.3  | 162       |
| 10 | Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. <i>Nature Biomedical Engineering</i> , 2020, 4, 325-334.                                | 11.6 | 160       |
| 11 | Alkyne-Functionalized Superstable Graphitic Silver Nanoparticles for Raman Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 13558-13561.                                                            | 6.6  | 154       |
| 12 | Aptamer-conjugated nanomaterials for specific cancer cell recognition and targeted cancer therapy. <i>NPG Asia Materials</i> , 2014, 6, e95-e95.                                                                         | 3.8  | 111       |
| 13 | In vivo activation of pH-responsive oxidase-like graphitic nanozymes for selective killing of <i>Helicobacter pylori</i> . <i>Nature Communications</i> , 2021, 12, 2002.                                                | 5.8  | 99        |
| 14 | Fabrication of Graphene-isolated-Au-nanocrystal Nanostructures for Multimodal Cell Imaging and Photothermal-enhanced Chemotherapy. <i>Scientific Reports</i> , 2014, 4, 6093.                                            | 1.6  | 95        |
| 15 | Single-walled carbon nanotubes as optical materials for biosensing. <i>Nanoscale</i> , 2011, 3, 1949.                                                                                                                    | 2.8  | 79        |
| 16 | Electrochemical determination of paracetamol based on Au@graphene core-shell nanoparticles doped conducting polymer PEDOT nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 778-785.                  | 4.0  | 78        |
| 17 | Multiple Functional Nanoprobe for Contrast-Enhanced Bimodal Cellular Imaging and Targeted Therapy. <i>Analytical Chemistry</i> , 2015, 87, 4448-4454.                                                                    | 3.2  | 69        |
| 18 | Localizable and Photoactivatable Fluorophore for Spatiotemporal Two-Photon Bioimaging. <i>Analytical Chemistry</i> , 2015, 87, 5626-5631.                                                                                | 3.2  | 60        |

| #  | ARTICLE                                                                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Graphite-Coated Magnetic Nanoparticle Microarray for Few-Cells Enrichment and Detection. ACS Nano, 2012, 6, 1094-1101.                                                                                | 7.3 | 57        |
| 20 | Stable Graphene-Isolated-Au-Nanocrystal for Accurate and Rapid Surface Enhancement Raman Scattering Analysis. Analytical Chemistry, 2016, 88, 10611-10616.                                            | 3.2 | 54        |
| 21 | Isotopic graphene-encapsulated-Au-nanocrystals with cellular Raman-silent signals for cancer cell pattern recognition. Chemical Science, 2018, 9, 2842-2849.                                          | 3.7 | 51        |
| 22 | Portable and Label-Free Detection of Blood Bilirubin with Graphene-Isolated-Au-Nanocrystals Paper Strip. Analytical Chemistry, 2018, 90, 13687-13694.                                                 | 3.2 | 47        |
| 23 | Stable and unique graphitic Raman internal standard nanocapsules for surface-enhanced Raman spectroscopy quantitative analysis. Nano Research, 2016, 9, 1418-1425.                                    | 5.8 | 45        |
| 24 | Plasma-assisted nitrogen doping of graphene-encapsulated Pt nanocrystals as efficient fuel cell catalysts. Journal of Materials Chemistry A, 2014, 2, 472-477.                                        | 5.2 | 44        |
| 25 | In situ targeted MRI detection of Helicobacter pylori with stable magnetic graphitic nanocapsules. Nature Communications, 2017, 8, 15653.                                                             | 5.8 | 41        |
| 26 | Fluorescent Nanosensor for Probing Histone Acetyltransferase Activity Based on Acetylation Protection and Magnetic Graphitic Nanocapsules. Small, 2015, 11, 877-885.                                  | 5.2 | 40        |
| 27 | Stable gold graphitic nanocapsule doped hydrogels for efficient photothermal antibacterial applications. Chemical Communications, 2019, 55, 5359-5362.                                                | 2.2 | 40        |
| 28 | Magnetic Graphitic Nanocapsules for Programmed DNA Fishing and Detection. Small, 2013, 9, 951-957.                                                                                                    | 5.2 | 39        |
| 29 | Nuclease-resistant synthetic drug-DNA adducts: programmable drug-DNA conjugation for targeted anticancer drug delivery. NPC Asia Materials, 2015, 7, e169-e169.                                       | 3.8 | 34        |
| 30 | Free-standing 2D nanorrafts by assembly of 1D nanorods for biomolecule sensing. Nanoscale, 2019, 11, 12169-12176.                                                                                     | 2.8 | 30        |
| 31 | <i>Akkermansia muciniphila</i> Enhances the Antitumor Effect of Cisplatin in Lewis Lung Cancer Mice. Journal of Immunology Research, 2020, 2020, 1-13.                                                | 0.9 | 30        |
| 32 | Generalized Preparation of Two-Dimensional Quasi-nanosheets via Self-assembly of Nanoparticles. Journal of the American Chemical Society, 2019, 141, 1725-1734.                                       | 6.6 | 29        |
| 33 | Charge-Transfer Cocrystal via a Persistent Radical Cation Acceptor for Efficient Solar-Thermal Conversion. Angewandte Chemie - International Edition, 2022, 61, .                                     | 7.2 | 29        |
| 34 | Simultaneous tracking of drug molecules and carriers using aptamer-functionalized fluorescent superstable gold nanorod-carbon nanocapsules during thermo-chemotherapy. Nanoscale, 2016, 8, 7942-7948. | 2.8 | 28        |
| 35 | Simultaneous Application of Photothermal Therapy and an Anti-inflammatory Prodrug using Pyrene-Aspirin-Loaded Gold Nanorod Graphitic Nanocapsules. Angewandte Chemie, 2018, 130, 183-187.             | 1.6 | 28        |
| 36 | Modulating the Morphology of Gold Graphitic Nanocapsules for Plasmon Resonance-Enhanced Multimodal Imaging. Analytical Chemistry, 2016, 88, 5385-5391.                                                | 3.2 | 25        |

| #  | ARTICLE                                                                                                                                                                                                                                   | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Hollow graphitic nanocapsules as efficient electrode materials for sensitive Hydrogen peroxide detection. <i>Biosensors and Bioelectronics</i> , 2014, 52, 438-444.                                                                       | 5.3 | 24        |
| 38 | Magnetic-graphitic-nanocapsule templated diacetylene assembly and photopolymerization for sensing and multicoded anti-counterfeiting. <i>Nanoscale</i> , 2014, 6, 13097-13103.                                                            | 2.8 | 23        |
| 39 | Graphene encapsulated Ru nanocrystal with highly-efficient peroxidase-like activity for glutathione detection at near-physiological pH. <i>Chemical Communications</i> , 2021, 57, 7669-7672.                                             | 2.2 | 22        |
| 40 | Surfactant-Free Interface Suspended Gold Graphitic Surface-Enhanced Raman Spectroscopy Substrate for Simultaneous Multiphase Analysis. <i>Analytical Chemistry</i> , 2018, 90, 11183-11187.                                               | 3.2 | 21        |
| 41 | Cell-SELEX-based aptamer-conjugated nanomaterials for enhanced targeting of cancer cells. <i>Science China Chemistry</i> , 2011, 54, 1218-1226.                                                                                           | 4.2 | 20        |
| 42 | The influence of physiological environment on the targeting effect of aptamer-guided gold nanoparticles. <i>Nano Research</i> , 2019, 12, 129-135.                                                                                        | 5.8 | 20        |
| 43 | Versatile metal graphitic nanocapsules for SERS bioanalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 1581-1592.                                                                                                                       | 4.8 | 19        |
| 44 | Alkyne functionalized graphene-isolated-Au-nanocrystal for the ratiometric SERS sensing of alkaline phosphatase with acetonitrile solvent as an internal standard. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129373.          | 4.0 | 19        |
| 45 | Fabrication of superstable gold nanorod@carbon nanocapsule as a molecule loading material. <i>Science Bulletin</i> , 2015, 60, 1101-1107.                                                                                                 | 4.3 | 18        |
| 46 | In situ pepsin-assisted needle assembly of magnetic-graphitic-nanocapsules for enhanced gastric retention and mucus penetration. <i>Nano Today</i> , 2021, 36, 101032.                                                                    | 6.2 | 18        |
| 47 | Stabilizing Enzymes in Plasmonic Silk Film for Synergistic Therapy of In Situ SERS Identified Bacteria. <i>Advanced Science</i> , 2022, 9, e2104576.                                                                                      | 5.6 | 17        |
| 48 | A Magnetocatalytic Propelled Cobalt@Platinum@Graphene Navigator for Enhanced Tumor Penetration and Theranostics. <i>CCS Chemistry</i> , 2022, 4, 2382-2395.                                                                               | 4.6 | 16        |
| 49 | Advances in metal graphitic nanocapsules for biomedicine. <i>Exploration</i> , 2022, 2, .                                                                                                                                                 | 5.4 | 16        |
| 50 | Integrated microbiome, metabolome, and proteome analysis identifies a novel interplay among commensal bacteria, metabolites and candidate targets in non-small cell lung cancer. <i>Clinical and Translational Medicine</i> , 2022, 12, . | 1.7 | 16        |
| 51 | Elucidating the cellular uptake mechanism of aptamer-functionalized graphene-isolated-Au-nanocrystals with dual-modal imaging. <i>Analyst</i> , The, 2016, 141, 3337-3342.                                                                | 1.7 | 15        |
| 52 | Zinc-substituted hemoglobin with specific drug binding sites and fatty acid resistance ability for enhanced photodynamic therapy. <i>Nano Research</i> , 2019, 12, 1880-1887.                                                             | 5.8 | 15        |
| 53 | 3D halos assembled from Fe <sub>3</sub> O <sub>4</sub> /Au NPs with enhanced catalytic and optical properties. <i>Nanoscale</i> , 2019, 11, 20968-20976.                                                                                  | 2.8 | 14        |
| 54 | Hydrogen-Bonding-Induced H-Aggregation of Charge-Transfer Complexes for Ultra-Efficient Second Near-Infrared Region Photothermal Conversion. <i>CCS Chemistry</i> , 2022, 4, 2333-2343.                                                   | 4.6 | 14        |

| #  | ARTICLE                                                                                                                                                                                                                                                                   | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Synthesis of amphiphilic graphitic silver nanoparticles with inherent internal standards: an efficient strategy for reliable quantitative SERS analysis in common fluids. <i>Chemical Communications</i> , 2018, 54, 8618-8621.                                           | 2.2 | 13        |
| 56 | Recent Advances in Multifunctional Graphitic Nanocapsules for Raman Detection, Imaging, and Therapy. <i>Small Methods</i> , 2020, 4, 1900440.                                                                                                                             | 4.6 | 13        |
| 57 | Plasmon Coupling in DNA-Assembled Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021, 143, 14573-14580.                                                                                                                                          | 6.6 | 13        |
| 58 | Graphitic nanocapsules: design, synthesis and bioanalytical applications. <i>Nanoscale</i> , 2017, 9, 10529-10543.                                                                                                                                                        | 2.8 | 10        |
| 59 | Integrated Analyses Identify Immune-Related Signature Associated with Qingyihuaji Formula for Treatment of Pancreatic Ductal Adenocarcinoma Using Network Pharmacology and Weighted Gene Co-Expression Network. <i>Journal of Immunology Research</i> , 2020, 2020, 1-17. | 0.9 | 10        |
| 60 | Free-Floating 2D Nanosheets with a Superlattice Assembled from Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for Peroxidase-Mimicking Activity. <i>ACS Applied Nano Materials</i> , 2018, 1, 5389-5395.                                                                    | 2.4 | 9         |
| 61 | Interaction-Transferable Graphene-Isolated Superstable AuCo Nanocrystal-Enabled Direct Cyanide Capture. <i>Analytical Chemistry</i> , 2019, 91, 8762-8766.                                                                                                                | 3.2 | 9         |
| 62 | Precise Deposition of Polydopamine on Cancer Cell Membrane as Artificial Receptor for Targeted Drug Delivery. <i>IScience</i> , 2020, 23, 101750.                                                                                                                         | 1.9 | 9         |
| 63 | Versatile graphitic nanozymes for magneto actuated cascade reaction-enhanced treatment of <i>S. mutans</i> biofilms. <i>Nano Research</i> , 2022, 15, 9800-9808.                                                                                                          | 5.8 | 9         |
| 64 | Covalent Amide-Bonded Nanoflakes for High-Fidelity Intracellular Sensing and Targeted Therapy: A Superstable Nanosystem Free of Nonspecific Interferences. <i>Analytical Chemistry</i> , 2021, 93, 7879-7888.                                                             | 3.2 | 8         |
| 65 | Versatile Graphene-Isolated AuAg Nanocrystal for Multiphase Analysis and Multimodal Cellular Raman Imaging. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1491-1497.                                                                                                    | 2.6 | 8         |
| 66 | Fabrication of GO/magnetic graphitic nanocapsule/TiO <sub>2</sub> assemblies as efficient and recyclable photocatalysts. <i>Science China Chemistry</i> , 2015, 58, 1131-1136.                                                                                            | 4.2 | 7         |
| 67 | In Situ Gastric pH Imaging with Hydrogel Capsule Isolated Paramagnetic Metallo-albumin Complexes. <i>Analytical Chemistry</i> , 2021, 93, 5939-5946.                                                                                                                      | 3.2 | 7         |
| 68 | A Novel Risk Model Based on Autophagy-Related LncRNAs Predicts Prognosis and Indicates Immune Infiltration Landscape of Patients With Cutaneous Melanoma. <i>Frontiers in Genetics</i> , 2022, 13, 885391.                                                                | 1.1 | 7         |
| 69 | Enzyme-mimic activity study of superstable and ultrasmall graphene encapsuled CoRu nanocrystal. <i>APL Materials</i> , 2021, 9, .                                                                                                                                         | 2.2 | 6         |
| 70 | Charge-Transfer Cocystal via a Persistent Radical Cation Acceptor for Efficient Solar-Thermal Conversion. <i>Angewandte Chemie</i> , 0, , .                                                                                                                               | 1.6 | 6         |
| 71 | Applications of Graphitic Nanomaterial's Optical Properties in Biochemical Sensing. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 28-39.                                                                                                           | 2.2 | 5         |
| 72 | Synthesis and Characterization of Small Size Gold-Graphitic Nanocapsules. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 651-656.                                                                                                                   | 2.2 | 5         |

| #  | ARTICLE                                                                                                                                                                                    | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Collaborative Penalized Least Squares for Background Correction of Multiple Raman Spectra. Journal of Analytical Methods in Chemistry, 2018, 2018, 1-11.                                   | 0.7 | 3         |
| 74 | Natural interface-mediated self-assembly of graphene-isolated-nanocrystals for plasmonic arrays construction and personalized information acquisition. Nano Research, 2022, 15, 9327-9333. | 5.8 | 3         |
| 75 | Application of Multigroup Technology in Non-Small-Cell Lung Cancer with Qi Stagnation and Blood Stasis Syndrome. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-14.  | 0.5 | 1         |
| 76 | Metal Graphitic Nanocapsules for Theranostics in Harsh Conditions. Frontiers in Chemistry, 2022, 10, .                                                                                     | 1.8 | 1         |