

Shuang-Yan Huan

List of Publications by Year in descending order

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73
papers

3,335
citations

126907

33
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149698

56
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all docs

74
docs citations

74
times ranked

4249
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | DNAzyme-based biosensors and nanodevices. <i>Chemical Communications</i> , 2015, 51, 979-995. | 4.1 | 263 |
| 2 | Engineering a 3D DNA-Logic Gate Nanomachine for Bispecific Recognition and Computing on Target Cell Surfaces. <i>Journal of the American Chemical Society</i> , 2018, 140, 9793-9796. | 13.7 | 214 |
| 3 | High-Sensitivity Naphthalene-Based Two-Photon Fluorescent Probe Suitable for Direct Bioimaging of H ₂ S in Living Cells. <i>Analytical Chemistry</i> , 2013, 85, 7875-7881. | 6.5 | 189 |
| 4 | Translating Bacterial Detection by DNAzymes into a Litmus Test. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12799-12802. | 13.8 | 188 |
| 5 | Nitric Oxide-Activated "Dual-Key" One-Lock Nanoprobe for in Vivo Molecular Imaging and High-Specificity Cancer Therapy. <i>Journal of the American Chemical Society</i> , 2019, 141, 13572-13581. | 13.7 | 126 |
| 6 | Fluorescence Resonance Energy Transfer-Based DNA Nanoprism with a Split Aptamer for Adenosine Triphosphate Sensing in Living Cells. <i>Analytical Chemistry</i> , 2017, 89, 10941-10947. | 6.5 | 117 |
| 7 | A cell membrane-anchored fluorescent probe for monitoring carbon monoxide release from living cells. <i>Chemical Science</i> , 2019, 10, 320-325. | 7.4 | 106 |
| 8 | Ultrathin reduced graphene oxide/MOF nanofiltration membrane with improved purification performance at low pressure. <i>Chemosphere</i> , 2018, 204, 378-389. | 8.2 | 94 |
| 9 | Zirconium-based metal organic frameworks loaded on polyurethane foam membrane for simultaneous removal of dyes with different charges. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 267-279. | 9.4 | 94 |
| 10 | Chemical Design of Activatable Photoacoustic Probes for Precise Biomedical Applications. <i>Chemical Reviews</i> , 2022, 122, 6850-6918. | 47.7 | 94 |
| 11 | Visualization of Endoplasmic Reticulum Aminopeptidase 1 under Different Redox Conditions with a Two-Photon Fluorescent Probe. <i>Analytical Chemistry</i> , 2017, 89, 7641-7648. | 6.5 | 83 |
| 12 | Surface-Enhanced Raman Spectroscopic Detection of a Bacteria Biomarker Using Gold Nanoparticle Immobilized Substrates. <i>Analytical Chemistry</i> , 2009, 81, 9902-9912. | 6.5 | 79 |
| 13 | Progress and Perspective of Solid-State Organic Fluorophores for Biomedical Applications. <i>Journal of the American Chemical Society</i> , 2021, 143, 21143-21160. | 13.7 | 76 |
| 14 | Two-Photon DNAzyme-Gold Nanoparticle Probe for Imaging Intracellular Metal Ions. <i>Analytical Chemistry</i> , 2018, 90, 3118-3123. | 6.5 | 73 |
| 15 | A paper-based surface-enhanced resonance Raman spectroscopic (SERRS) immunoassay using magnetic separation and enzyme-catalyzed reaction. <i>Analyst</i> , 2013, 138, 2624. | 3.5 | 65 |
| 16 | Polyurethane foam membranes filled with humic acid-chitosan crosslinked gels for selective and simultaneous removal of dyes. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 67-78. | 9.4 | 64 |
| 17 | Nanoscale Metal-Organic Framework Based Two-Photon Sensing Platform for Bioimaging in Live Tissue. <i>Analytical Chemistry</i> , 2019, 91, 2727-2733. | 6.5 | 63 |
| 18 | Recent progress in utilizing near-infrared J-aggregates for imaging and cancer therapy. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1076-1089. | 5.9 | 61 |

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|----|---|------|-----------|
| 19 | Easily separated silver nanoparticle-decorated magnetic graphene oxide: Synthesis and high antibacterial activity. <i>Journal of Colloid and Interface Science</i> , 2016, 471, 94-102. | 9.4 | 59 |
| 20 | Preliminary study on the application of near infrared spectroscopy and pattern recognition methods to classify different types of apple samples. <i>Food Chemistry</i> , 2011, 128, 555-561. | 8.2 | 57 |
| 21 | Smart Nanozyme Platform with Activity-Related Ratiometric Molecular Imaging for Predicting Therapeutic Effects. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26142-26150. | 13.8 | 57 |
| 22 | DLISA: A DNAzyme-Based ELISA for Protein Enzyme-Free Immunoassay of Multiple Analytes. <i>Analytical Chemistry</i> , 2015, 87, 7746-7753. | 6.5 | 56 |
| 23 | A MgO Nanoparticles Composite Matrix-Based Electrochemical Biosensor for Hydrogen Peroxide with High Sensitivity. <i>Electroanalysis</i> , 2010, 22, 471-477. | 2.9 | 55 |
| 24 | Silver deposited polystyrene (PS) microspheres for surface-enhanced Raman spectroscopic-encoding and rapid label-free detection of melamine in milk powder. <i>Talanta</i> , 2013, 113, 7-13. | 5.5 | 55 |
| 25 | Nanoparticle-based substrates for surface-enhanced Raman scattering detection of bacterial spores. <i>Analyst</i> , 2012, 137, 3601. | 3.5 | 53 |
| 26 | Molecular engineering of organic-based agents for <i>in situ</i> bioimaging and phototherapeutics. <i>Chemical Society Reviews</i> , 2021, 50, 11766-11784. | 38.1 | 52 |
| 27 | Learning from Artemisinin: Bioinspired Design of a Reaction-Based Fluorescent Probe for the Selective Sensing of Labile Heme in Complex Biosystems. <i>Journal of the American Chemical Society</i> , 2020, 142, 2129-2133. | 13.7 | 46 |
| 28 | The performance of UiO-66-NH ₂ /graphene oxide (GO) composite membrane for removal of differently charged mixed dyes. <i>Chemosphere</i> , 2019, 237, 124517. | 8.2 | 45 |
| 29 | Ag nanocluster-based label-free catalytic and molecular beacons for amplified biosensing. <i>Chemical Communications</i> , 2015, 51, 12095-12098. | 4.1 | 44 |
| 30 | A de novo strategy to develop NIR precipitating fluorochrome for long-term <i>in situ</i> cell membrane bioimaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 44 |
| 31 | Graphene sponge decorated with copper nanoparticles as a novel bactericidal filter for inactivation of <i>Escherichia coli</i> . <i>Chemosphere</i> , 2017, 184, 347-357. | 8.2 | 42 |
| 32 | Liposome-mediated enhancement of the sensitivity in immunoassay based on surface-enhanced Raman scattering at gold nanosphere array substrate. <i>Talanta</i> , 2008, 75, 797-803. | 5.5 | 40 |
| 33 | <i>In Situ</i> Imaging of Furin Activity with a Highly Stable Probe by Releasing of Precipitating Fluorochrome. <i>Analytical Chemistry</i> , 2018, 90, 11680-11687. | 6.5 | 35 |
| 34 | Tetraphenylethene derivative modified DNA oligonucleotide for <i>in situ</i> potassium ion detection and imaging in living cells. <i>Talanta</i> , 2017, 167, 550-556. | 5.5 | 31 |
| 35 | Oxygen-Embedded Pentacene Based Near-Infrared Chemiluminescent Nanoprobe for Highly Selective and Sensitive Visualization of Peroxynitrite <i>In Vivo</i> . <i>Analytical Chemistry</i> , 2020, 92, 4154-4163. | 6.5 | 30 |
| 36 | Direct characterization of phase behavior and compatibility in PET/HDPE polymer blends by confocal Raman mapping. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 260-270. | 2.5 | 29 |

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|----|---|------|-----------|
| 37 | Copper-thioguanine metallodrug with self-reinforcing circular catalysis for activatable MRI imaging and amplifying specificity of cancer therapy. <i>Science China Chemistry</i> , 2020, 63, 924-935. | 8.2 | 29 |
| 38 | Oxygen-Embedded Quinoidal Acene Based Semiconducting Chromophore Nanoprobe for Amplified Photoacoustic Imaging and Photothermal Therapy. <i>Analytical Chemistry</i> , 2019, 91, 15275-15283. | 6.5 | 28 |
| 39 | Precipitated Fluorophore-Based Molecular Probe for <i>In Situ</i> Imaging of Aminopeptidase N in Living Cells and Tumors. <i>Analytical Chemistry</i> , 2021, 93, 6463-6471. | 6.5 | 28 |
| 40 | Orientation of 6-Mercaptopurine SAMs at the Silver Electrode as Studied by Raman Mapping and in Situ SERS. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5490-5497. | 2.6 | 27 |
| 41 | Surface-enhanced Raman spectroscopic detection of <i>Bacillus subtilis</i> spores using gold nanoparticle based substrates. <i>Analytica Chimica Acta</i> , 2011, 707, 155-163. | 5.4 | 26 |
| 42 | Fluorescence Resonance Energy Transfer-based Biosensor Composed of Nitrogen-doped Carbon Dots and Gold Nanoparticles for the Highly Sensitive Detection of Organophosphorus Pesticides. <i>Analytical Sciences</i> , 2016, 32, 951-956. | 1.6 | 26 |
| 43 | Enantioselective Recognition of Amino Acid by Differential Pulse Voltammetry in Molecularly Imprinted Monolayers Assembled on Au Electrodes. <i>Electroanalysis</i> , 2004, 16, 1019-1023. | 2.9 | 23 |
| 44 | Selective electrochemical molecular recognition of benzenediol isomers using molecularly imprinted TiO ₂ film electrodes. <i>Analytica Chimica Acta</i> , 2004, 506, 31-39. | 5.4 | 21 |
| 45 | Surface-enhanced Raman scattering based detection of bacterial biomarker and potential surface reaction species. <i>Analyst</i> , 2010, 135, 2993. | 3.5 | 20 |
| 46 | Construction of an Efficacious Model for a Nondestructive Identification of Traditional Chinese Medicines Liuwei Dihuang Pills from Different Manufacturers Using Near-infrared Spectroscopy and Moving Window Partial Least-squares Discriminant Analysis. <i>Analytical Sciences</i> , 2009, 25, 1143-1148. | 1.6 | 17 |
| 47 | Molecular Engineering of Novel Fluorophores for High-Contrast Bioimaging. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1073-1082. | 4.9 | 16 |
| 48 | Moving Window Partial Least-Squares Discriminant Analysis for Identification of Different Kinds of Bezoar Samples by near Infrared Spectroscopy and Comparison of Different Pattern Recognition Methods. <i>Journal of Near Infrared Spectroscopy</i> , 2007, 15, 291-297. | 1.5 | 15 |
| 49 | Poly(cytosine)-templated Silver Nanoclusters as Fluorescent Biosensor for Highly Sensitive Detection of Uric Acid. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 660-667. | 1.4 | 14 |
| 50 | Au Microelectrode Based on Molecularly Imprinted Oligomer Film for Rapid Electrochemical Sensing. <i>Analytical Letters</i> , 2003, 36, 2401-2416. | 1.8 | 13 |
| 51 | Determination of heavy metal ions in mixed solution by imprinted SAMs. <i>Electrochimica Acta</i> , 2004, 49, 4273-4280. | 5.2 | 13 |
| 52 | A graphene/ionic liquid modified selenium-doped carbon paste electrode for determination of copper and antimony. <i>Analytical Methods</i> , 2016, 8, 1120-1126. | 2.7 | 13 |
| 53 | Manganese-Fluorouracil Metallodrug Nanotheranostic for MRI-Correlated Drug Release and Enhanced Chemoradiotherapy. <i>CCS Chemistry</i> , 2021, 3, 1116-1128. | 7.8 | 13 |
| 54 | Tumor-Specific Multipath Nucleic Acid Damages Strategy by Symbiosed Nanozyme@Enzyme with Synergistic Self-Cyclic Catalysis. <i>Small</i> , 2021, 17, e2100766. | 10.0 | 12 |

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|----|---|------|-----------|
| 55 | RFP tags for labeling secretory pathway proteins. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 508-512. | 2.1 | 11 |
| 56 | Generation of Biostable L-aptamers against Achiral Targets by Chiral Inversion of Existing D-aptamers. <i>Talanta</i> , 2017, 164, 662-667. | 5.5 | 11 |
| 57 | An aggregated perylene-based broad-spectrum, efficient and label-free quencher for multiplexed fluorescent bioassays. <i>Biosensors and Bioelectronics</i> , 2014, 58, 320-325. | 10.1 | 10 |
| 58 | A two-photon fluorescence self-reporting black phosphorus nanoprobe for the <i>in situ</i> monitoring of therapy response. <i>Chemical Communications</i> , 2020, 56, 14007-14010. | 4.1 | 10 |
| 59 | Synthesis and Characterization of Poly(toluidine blue) Nanowires and Their Application in Amperometric Biosensors. <i>Electroanalysis</i> , 2009, 21, 1152-1158. | 2.9 | 8 |
| 60 | High-fidelity imaging of lysosomal enzyme through <i>in situ</i> ordered assembly of small molecular fluorescent probes. <i>Biomaterials</i> , 2022, 287, 121657. | 11.4 | 7 |
| 61 | Adsorption of purpald SAMs on silver and gold electrodes: a Raman mapping study. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 295-300. | 2.5 | 6 |
| 62 | DNAzyme conjugated nanomaterials for biosensing applications. <i>Reviews in Analytical Chemistry</i> , 2014, 33, . | 3.2 | 6 |
| 63 | Monitoring Immunotherapy With Optical Molecular Imaging. <i>ChemMedChem</i> , 2021, 16, 2547-2557. | 3.2 | 6 |
| 64 | Smart Nanozyme Platform with Activity-Related Ratiometric Molecular Imaging for Predicting Therapeutic Effect. <i>Angewandte Chemie</i> , 0, . | 2.0 | 6 |
| 65 | Selective detection of ozone in inflamed mice using a novel activatable chemiluminescent probe. <i>Chemical Communications</i> , 2022, 58, 4184-4187. | 4.1 | 4 |
| 66 | Multiple-angle-of-incidence polarization infrared reflection-absorption spectroscopy (MAI-PIRRAS) for investigation of 6-Mercaptopurine SAMs on smooth silver surface. <i>Vibrational Spectroscopy</i> , 2009, 49, 38-42. | 2.2 | 3 |
| 67 | Gold Nanoparticles as Dual Functional Sensor to Detect <i>E.coli</i> DH5 α as a Model for Gram-negative Bacteria. <i>Journal of the Chinese Chemical Society</i> , 2015, 62, 521-527. | 1.4 | 3 |
| 68 | Carbon nanotube-impeded transport of non-steroidal anti-inflammatory drugs in Xiangjiang sediments. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 229-238. | 9.4 | 3 |
| 69 | Functional Xeno Nucleic Acids for Biomedical Application. <i>Chemical Research in Chinese Universities</i> , 0, . | 2.6 | 3 |
| 70 | Influence of pH Value and Anion on Surface-Enhanced Raman Scattering of 2,6-Pyridinedicarboxylic Acid on Gold Nanoparticle Surface. <i>Chinese Journal of Analytical Chemistry</i> , 2011, 39, 1003-1008. | 1.7 | 2 |
| 71 | Gold Nanoparticle Based Fluorescence Resonance Energy Transfer Immunoassay for the Detection of the Histone Deacetylase Activity using a Fluorescent Peptide Probe. <i>Analytical Letters</i> , 2013, 46, 2029-2039. | 1.8 | 2 |
| 72 | Size-tunable two-dimensional Pd@Au nanoplates as a platform for fluorescence sensing. <i>Journal of the Chinese Chemical Society</i> , 2018, 65, 1251-1258. | 1.4 | 1 |

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|----|--|-----|-----------|
| 73 | Oxygen-embedded quinoidal acene based semiconducting chromophore nanoprobe for amplified photoacoustic imaging. <i>Methods in Enzymology</i> , 2021, 657, 385-413. | 1.0 | 0 |