

Shuang-Yan Huan

List of Publications by Year in descending order

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73
papers

3,335
citations

126708

33
h-index

149479

56
g-index

74
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.	2.2	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.	6.6	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.	3.2	189
4	Translating Bacterial Detection by DNAzymes into a Litmus Test. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12799-12802.	7.2	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.	6.6	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.	3.2	117
7	A cell membrane-anchored fluorescent probe for monitoring carbon monoxide release from living cells. <i>Chemical Science</i> , 2019, 10, 320-325.	3.7	106
8	Ultrathin reduced graphene oxide/MOF nanofiltration membrane with improved purification performance at low pressure. <i>Chemosphere</i> , 2018, 204, 378-389.	4.2	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.	5.0	94
10	Chemical Design of Activatable Photoacoustic Probes for Precise Biomedical Applications. <i>Chemical Reviews</i> , 2022, 122, 6850-6918.	23.0	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.	3.2	83
12	Surface-Enhanced Raman Spectroscopic Detection of a Bacteria Biomarker Using Gold Nanoparticle Immobilized Substrates. <i>Analytical Chemistry</i> , 2009, 81, 9902-9912.	3.2	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.	6.6	76
14	Two-Photon DNAzyme-Gold Nanoparticle Probe for Imaging Intracellular Metal Ions. <i>Analytical Chemistry</i> , 2018, 90, 3118-3123.	3.2	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.	1.7	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.	5.0	64
17	Nanoscale Metal-Organic Framework Based Two-Photon Sensing Platform for Bioimaging in Live Tissue. <i>Analytical Chemistry</i> , 2019, 91, 2727-2733.	3.2	63
18	Recent progress in utilizing near-infrared J-aggregates for imaging and cancer therapy. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1076-1089.	3.2	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.	5.0	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.	4.2	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.	7.2	57
22	DLISA: A DNAzyme-Based ELISA for Protein Enzyme-Free Immunoassay of Multiple Analytes. <i>Analytical Chemistry</i> , 2015, 87, 7746-7753.	3.2	56
23	A MgO Nanoparticles Composite Matrix-Based Electrochemical Biosensor for Hydrogen Peroxide with High Sensitivity. <i>Electroanalysis</i> , 2010, 22, 471-477.	1.5	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.	2.9	55
25	Nanoparticle-based substrates for surface-enhanced Raman scattering detection of bacterial spores. <i>Analyst</i> , 2012, 137, 3601.	1.7	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.	18.7	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.	6.6	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.	4.2	45
29	Ag nanocluster-based label-free catalytic and molecular beacons for amplified biosensing. <i>Chemical Communications</i> , 2015, 51, 12095-12098.	2.2	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, .	3.3	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.	4.2	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.	2.9	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.	3.2	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.	2.9	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.	3.2	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.	1.2	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.	4.2	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.	3.2	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.	3.2	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.	1.2	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.	2.6	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.	0.8	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.	1.5	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.	2.6	21
45	Surface-enhanced Raman scattering based detection of bacterial biomarker and potential surface reaction species. <i>Analyst</i> , 2010, 135, 2993.	1.7	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.	0.8	17
47	Molecular Engineering of Novel Fluorophores for High-Contrast Bioimaging. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1073-1082.	2.6	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.	0.8	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.	0.8	14
50	Au Microelectrode Based on Molecularly Imprinted Oligomer Film for Rapid Electrochemical Sensing. <i>Analytical Letters</i> , 2003, 36, 2401-2416.	1.0	13
51	Determination of heavy metal ions in mixed solution by imprinted SAMs. <i>Electrochimica Acta</i> , 2004, 49, 4273-4280.	2.6	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.	1.3	13
53	Manganese-Fluorouracil Metallodrug Nanotheranostic for MRI-Correlated Drug Release and Enhanced Chemoradiotherapy. <i>CCS Chemistry</i> , 2021, 3, 1116-1128.	4.6	13
54	Tumor-Specific Multipath Nucleic Acid Damages Strategy by Symbiosed Nanozyme@Enzyme with Synergistic Self-Cyclic Catalysis. <i>Small</i> , 2021, 17, e2100766.	5.2	12

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55	RFP tags for labeling secretory pathway proteins. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 508-512.	1.0	11
56	Generation of Biostable L-aptamers against Achiral Targets by Chiral Inversion of Existing D-aptamers. <i>Talanta</i> , 2017, 164, 662-667.	2.9	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.	5.3	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.	2.2	10
59	Synthesis and Characterization of Poly(toluidine blue) Nanowires and Their Application in Amperometric Biosensors. <i>Electroanalysis</i> , 2009, 21, 1152-1158.	1.5	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.	5.7	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.	1.2	6
62	DNAzyme conjugated nanomaterials for biosensing applications. <i>Reviews in Analytical Chemistry</i> , 2014, 33, .	1.5	6
63	Monitoring Immunotherapy With Optical Molecular Imaging. <i>ChemMedChem</i> , 2021, 16, 2547-2557.	1.6	6
64	Smart Nanozyme Platform with Activity-Related Ratiometric Molecular Imaging for Predicting Therapeutic Effect. <i>Angewandte Chemie</i> , 0, .	1.6	6
65	Selective detection of ozone in inflamed mice using a novel activatable chemiluminescent probe. <i>Chemical Communications</i> , 2022, 58, 4184-4187.	2.2	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.	1.2	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.	0.8	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.	5.0	3
69	Functional Xeno Nucleic Acids for Biomedical Application. <i>Chemical Research in Chinese Universities</i> , 0, .	1.3	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.	0.9	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.	1.0	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.	0.8	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.	0.4	0