

Assoc Prof Yu Xiang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

4,546

citations

30

h-index

67

g-index

69

ext. papers

4,932

ext. citations

7.1

avg, IF

5.96

L-index

#	Paper	IF	Citations
62	New fluorescent rhodamine hydrazone chemosensor for Cu(II) with high selectivity and sensitivity. <i>Organic Letters</i> , 2006 , 8, 2863-6	6.2	611
61	Using personal glucose meters and functional DNA sensors to quantify a variety of analytical targets. <i>Nature Chemistry</i> , 2011 , 3, 697-703	17.6	532
60	A new rhodamine-based chemosensor exhibiting selective Fe(III)-amplified fluorescence. <i>Organic Letters</i> , 2006 , 8, 1549-52	6.2	424
59	Abasic site-containing DNAzyme and aptamer for label-free fluorescent detection of Pb(2+) and adenosine with high sensitivity, selectivity, and tunable dynamic range. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15352-7	16.4	313
58	Salicylaldehyde azines as fluorophores of aggregation-induced emission enhancement characteristics. <i>Journal of Organic Chemistry</i> , 2009 , 74, 2163-6	4.2	244
57	Reversible photochromic system based on rhodamine B salicylaldehyde hydrazone metal complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1643-9	16.4	172
56	Using commercially available personal glucose meters for portable quantification of DNA. <i>Analytical Chemistry</i> , 2012 , 84, 1975-80	7.8	147
55	Portable and quantitative detection of protein biomarkers and small molecular toxins using antibodies and ubiquitous personal glucose meters. <i>Analytical Chemistry</i> , 2012 , 84, 4174-8	7.8	143
54	DNA as sensors and imaging agents for metal ions. <i>Inorganic Chemistry</i> , 2014 , 53, 1925-42	5.1	120
53	Highly sensitive and selective optical chemosensor for determination of Cu ²⁺ in aqueous solution. <i>Talanta</i> , 2008 , 74, 1148-53	6.2	117
52	An invasive DNA approach toward a general method for portable quantification of metal ions using a personal glucose meter. <i>Chemical Communications</i> , 2013 , 49, 585-7	5.8	115
51	Sensitive and selective spectrofluorimetric determination of chromium(VI) in water by fluorescence enhancement. <i>Analytica Chimica Acta</i> , 2007 , 581, 132-6	6.6	105
50	Label-free fluorescent functional DNA sensors using unmodified DNA: a vacant site approach. <i>Analytical Chemistry</i> , 2010 , 82, 4122-9	7.8	102
49	A ratiometric fluorescent pH probe based on aggregation-induced emission enhancement and its application in live-cell imaging. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13470		101
48	A reusable aptamer-based evanescent wave all-fiber biosensor for highly sensitive detection of Ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 11-8	11.8	82
47	Label-free catalytic and molecular beacon containing an abasic site for sensitive fluorescent detection of small inorganic and organic molecules. <i>Analytical Chemistry</i> , 2012 , 84, 2916-22	7.8	81
46	A ratiometric fluorescent chemosensor for Al ³⁺ in aqueous solution based on aggregation-induced emission and its application in live-cell imaging. <i>Analytica Chimica Acta</i> , 2014 , 829, 54-9	6.6	73

45	Aptamer-Based Origami Paper Analytical Device for Electrochemical Detection of Adenosine. <i>Angewandte Chemie</i> , 2012 , 124, 7031-7034	3.6	73
44	Dose-Dependent Response of Personal Glucose Meters to Nicotinamide Coenzymes: Applications to Point-of-Care Diagnostics of Many Non-Glucose Targets in a Single Step. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 732-6	16.4	65
43	Ratiometric and selective fluorescent chemodosimeter for Cu(II) by Cu(II)-induced oxidation. <i>Luminescence</i> , 2008 , 23, 28-31	2.5	58
42	Aggregation-Induced Emission Luminogen-Embedded Silica Nanoparticles Containing DNA Aptamers for Targeted Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 609-16	9.5	57
41	Fully integrated graphene electronic biosensor for label-free detection of lead (II) ion based on G-quadruplex structure-switching. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 758-763	11.8	49
40	Integration of Solution-Based Assays onto Lateral Flow Device for One-Step Quantitative Point-of-Care Diagnostics Using Personal Glucose Meter. <i>ACS Sensors</i> , 2016 , 1, 1091-1096	9.2	48
39	Organic Crystalline Solids Response to Piezo/thermo Stimulus: Donor-Acceptor (D-A) Attached Salicylaldehyde Azine Derivatives. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14353-14359	3.8	47
38	Photoactivatable aggregation-induced emission fluorophores with multiple-color fluorescence and wavelength-selective activation. <i>Chemistry - A European Journal</i> , 2015 , 21, 4326-32	4.8	46
37	Postsynthetic Modification of DNA Phosphodiester Backbone for Photocaged DNAzyme. <i>ACS Chemical Biology</i> , 2016 , 11, 444-51	4.9	44
36	Practical, highly sensitive, and regenerable evanescent-wave biosensor for detection of Hg(2+) and Pb(2+) in water. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 265-272	11.8	44
35	Expanding targets of DNAzyme-based sensors through deactivation and activation of DNAzymes by single uracil removal: sensitive fluorescent assay of uracil-DNA glycosylase. <i>Analytical Chemistry</i> , 2012 , 84, 9981-7	7.8	41
34	A label-free and sensitive fluorescent method for the detection of uracil-DNA glycosylase activity. <i>Chemical Communications</i> , 2015 , 51, 929-32	5.8	37
33	Orthogonal Activation of RNA-Cleaving DNAzymes in Live Cells by Reactive Oxygen Species. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14167-14172	16.4	31
32	A new colorimetric strategy for monitoring caspase 3 activity by HRP-mimicking DNAzyme-peptide conjugates. <i>Analyst, The</i> , 2014 , 139, 1178-83	5	28
31	Fluorescence turn-on detection of cysteine over homocysteine and glutathione based on BSIPT and AIE. <i>Analytical Methods</i> , 2015 , 7, 5028-5033	3.2	28
30	Label-free fluorescence detection of melamine with a truncated aptamer. <i>Analyst, The</i> , 2016 , 141, 4511-5	5	27
29	Fluorescence turn-on detection of pyrophosphate based on aggregation-induced emission property of 5-chlorosalicylaldehyde azine. <i>Analytical Methods</i> , 2015 , 7, 753-758	3.2	22
28	An electrochemical biosensor for double-stranded Wnt7B gene detection based on enzymatic isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 75-82	11.8	21

27	Using a Personal Glucose Meter and Alkaline Phosphatase for Point-of-Care Quantification of Galactose-1-Phosphate Uridyltransferase in Clinical Galactosemia Diagnosis. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2221-7	4.5	21
26	Photocaged G-Quadruplex DNAzyme and Aptamer by Post-Synthetic Modification on Phosphodiester Backbone. <i>Bioconjugate Chemistry</i> , 2017 , 28, 549-555	6.3	18
25	How a novel tyrosine-heme cross-link fine-tunes the structure and functions of heme proteins: a direct comparative study of L29H/F43Y myoglobin. <i>Dalton Transactions</i> , 2015 , 44, 18815-22	4.3	18
24	Mechanoresponsive Fluorescence of 2-Aminobenzophenone Derivatives Based on Amorphous Phase to Crystalline Transformation with High Off-On Contrast Ratio. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21610-21615	3.8	18
23	Using the widely available blood glucose meter to monitor insulin and HbA1c. <i>Journal of Diabetes Science and Technology</i> , 2014 , 8, 855-8	4.1	17
22	Cationic Peptide Conjugation Enhances the Activity of Peroxidase-Mimicking DNAzymes. <i>Bioconjugate Chemistry</i> , 2016 , 27, 621-7	6.3	16
21	Energy driven cascade recognition for selective detection of nucleic acids with high discrimination factor at room temperature. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 488-94	11.8	16
20	DNAzyme-functionalized gold nanoparticles for biosensing. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014 , 140, 93-120	1.7	16
19	Simultaneously and Selectively Imaging a Cytoplasm Membrane and Mitochondria Using a Dual-Colored Aggregation-Induced Emission Probe. <i>Analytical Chemistry</i> , 2020 , 92, 14494-14500	7.8	16
18	Readily accessible rhodamine B-based photoresponsive material. <i>Science China Chemistry</i> , 2014 , 57, 248-251	7.51	15
17	Expanding DNAzyme Functionality through Enzyme Cascades with Applications in Single Nucleotide Repair and Tunable DNA-Directed Assembly of Nanomaterials. <i>Chemical Science</i> , 2013 , 4, 398-404	9.4	15
16	Enhancing Catalytic Activity of Uranyl-Dependent DNAzyme by Flexible Linker Insertion for More Sensitive Detection of Uranyl Ion. <i>Analytical Chemistry</i> , 2019 , 91, 6608-6615	7.8	14
15	A general approach for rational design of fluorescent DNA aptazyme sensors based on target-induced unfolding of DNA hairpins. <i>Analytica Chimica Acta</i> , 2015 , 889, 179-86	6.6	14
14	Quadruple signal amplification strategy based on hybridization chain reaction and an immunoelectrode modified with graphene sheets, a hemin/G-quadruplex DNAzyme concatamer, and alcohol dehydrogenase: ultrasensitive determination of influenza virus subtype H7N9. <i>Mikrochimica Acta</i> , 2015 , 162, 2377-2385	5.8	13
13	Patterned, Wearable UV Indicators from Electrospun Photochromic Fibers and Yarns. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000564	6.8	13
12	Orthogonal Activation of RNA-Cleaving DNAzymes in Live Cells by Reactive Oxygen Species. <i>Angewandte Chemie</i> , 2019 , 131, 14305-14310	3.6	12
11	Photoactivatable aggregation-induced emission of triphenylmethanol. <i>Chemical Communications</i> , 2017 , 53, 11130-11133	5.8	11
10	Quantification of total phosphorothioate in bacterial DNA by a bromoimane-based fluorescent method. <i>Biotechnology Journal</i> , 2016 , 11, 824-30	5.6	6

9	Organic Nanoparticles with Persistent Luminescence for In Vivo Afterglow Imaging-Guided Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2021 , 27, 6911-6916	4.8	5
8	Selective and sensitive fluorescence "turn-on" detection of 4-thiouridine in nucleic acids via oxidative amination. <i>Chemical Communications</i> , 2019 , 55, 13096-13099	5.8	5
7	Long-Term Dynamic Imaging of Cellular Processes Using an AIE Lipid Order Probe in the Dual-Color Mode. <i>Analytical Chemistry</i> , 2021 , 93, 10272-10281	7.8	5
6	Tuning Emission Wavelength of Polymorphous Crystal via Controllable Alkyl Chain Stacking and Its Vapor- and Thermo-Responsive Fluorescence. <i>Chemistry - A European Journal</i> , 2019 , 25, 8043-8052	4.8	4
5	Wavelength-Selective Activation of Photocaged DNAzymes for Metal Ion Sensing in Live Cells. <i>ACS Omega</i> , 2021 , 6, 13153-13160	3.9	3
4	General Method for Post-Synthetic Modification of Oligonucleotides Based on Oxidative Amination of 4-Thio-2'-deoxyuridine. <i>Bioconjugate Chemistry</i> , 2021 , 32, 721-728	6.3	2
3	Chemical synthesis of stimuli-responsive guide RNA for conditional control of CRISPR-Cas9 gene editing. <i>Chemical Science</i> , 2021 , 12, 9934-9945	9.4	2
2	A ratiometric solid AIE sensor for detection of acetone vapor. <i>Talanta</i> , 2022 , 236, 122845	6.2	2
1	Post-Synthetic Modification of Oligonucleotides Through Oxidative Amination of 4-Thio-2'-Deoxyuridine. <i>Current Protocols</i> , 2021 , 1, e274		