

# Assocâ€™Prof Yu Xiang

## List of Publications by Year in descending order

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62  
papers

5,256  
citations

126907

33  
h-index

118850

62  
g-index

69  
all docs

69  
docs citations

69  
times ranked

5715  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Fluorescent Rhodamine Hydrazone Chemosensor for Cu(II) with High Selectivity and Sensitivity. <i>Organic Letters</i> , 2006, 8, 2863-2866.	4.6	650
2	Using personal glucose meters and functional DNA sensors to quantify a variety of analytical targets. <i>Nature Chemistry</i> , 2011, 3, 697-703.	13.6	615
3	A New Rhodamine-Based Chemosensor Exhibiting Selective Fe(III)-Amplified Fluorescence. <i>Organic Letters</i> , 2006, 8, 1549-1552.	4.6	442
4	Abasic Site-Containing DNAzyme and Aptamer for Label-Free Fluorescent Detection of Pb <sup>2+</sup> and Adenosine with High Sensitivity, Selectivity, and Tunable Dynamic Range. <i>Journal of the American Chemical Society</i> , 2009, 131, 15352-15357.	13.7	334
5	Salicylaldehyde Azines as Fluorophores of Aggregation-Induced Emission Enhancement Characteristics. <i>Journal of Organic Chemistry</i> , 2009, 74, 2163-2166.	3.2	270
6	Reversible Photochromic System Based on Rhodamine B Salicylaldehyde Hydrazone Metal Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 1643-1649.	13.7	209
7	Using Commercially Available Personal Glucose Meters for Portable Quantification of DNA. <i>Analytical Chemistry</i> , 2012, 84, 1975-1980.	6.5	163
8	Portable and Quantitative Detection of Protein Biomarkers and Small Molecular Toxins Using Antibodies and Ubiquitous Personal Glucose Meters. <i>Analytical Chemistry</i> , 2012, 84, 4174-4178.	6.5	163
9	DNA as Sensors and Imaging Agents for Metal Ions. <i>Inorganic Chemistry</i> , 2014, 53, 1925-1942.	4.0	136
10	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, 585-587.	4.1	128
11	Highly sensitive and selective optical chemosensor for determination of Cu <sup>2+</sup> in aqueous solution. <i>Talanta</i> , 2008, 74, 1148-1153.	5.5	124
12	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.	6.7	115
13	Sensitive and selective spectrofluorimetric determination of chromium(VI) in water by fluorescence enhancement. <i>Analytica Chimica Acta</i> , 2007, 581, 132-136.	5.4	110
14	Label-Free Fluorescent Functional DNA Sensors Using Unmodified DNA: A Vacant Site Approach. <i>Analytical Chemistry</i> , 2010, 82, 4122-4129.	6.5	106
15	A reusable aptamer-based evanescent wave all-fiber biosensor for highly sensitive detection of Ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015, 66, 11-18.	10.1	95
16	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, 732-736.	13.8	88
17	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, 2916-2922.	6.5	84
18	A ratiometric fluorescent chemosensor for Al <sup>3+</sup> in aqueous solution based on aggregation-induced emission and its application in live-cell imaging. <i>Analytica Chimica Acta</i> , 2014, 829, 54-59.	5.4	80

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19	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.	10.1	69
20	Aggregation-Induced Emission Luminogen-Embedded Silica Nanoparticles Containing DNA Aptamers for Targeted Cell Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 609-616.	8.0	68
21	Orthogonal Activation of RNA-Cleaving DNAzymes in Live Cells by Reactive Oxygen Species. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14167-14172.	13.8	65
22	Ratiometric and selective fluorescent chemodosimeter for Cu(II) by Cu(II)-induced oxidation. <i>Luminescence</i> , 2008, 23, 28-31.	2.9	60
23	Postsynthetic Modification of DNA Phosphodiester Backbone for Photocaged DNAzyme. <i>ACS Chemical Biology</i> , 2016, 11, 444-451.	3.4	59
24	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.	7.8	57
25	Practical, highly sensitive, and regenerable evanescent-wave biosensor for detection of Hg <sup>2+</sup> and Pb <sup>2+</sup> in water. <i>Biosensors and Bioelectronics</i> , 2016, 80, 265-272.	10.1	57
26	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.	3.1	55
27	Photoactivatable Aggregation-Induced Emission Fluorophores with Multiple-Color Fluorescence and Wavelength-Selective Activation. <i>Chemistry - A European Journal</i> , 2015, 21, 4326-4332.	3.3	54
28	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, 9981-9987.	6.5	46
29	A label-free and sensitive fluorescent method for the detection of uracil-DNA glycosylase activity. <i>Chemical Communications</i> , 2015, 51, 929-932.	4.1	41
30	Label-free fluorescence detection of melamine with a truncated aptamer. <i>Analyst</i> , 2016, 141, 4511-4517.	3.5	40
31	A new colorimetric strategy for monitoring caspase 3 activity by HRP-mimicking DNAzyme-peptide conjugates. <i>Analyst</i> , 2014, 139, 1178-1183.	3.5	38
32	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.	6.5	37
33	Fluorescence turn-on detection of cysteine over homocysteine and glutathione based on ESIP and AIE. <i>Analytical Methods</i> , 2015, 7, 5028-5033.	2.7	33
34	Patterned, Wearable UV Indicators from Electrospun Photochromic Fibers and Yarns. <i>Advanced Materials Technologies</i> , 2020, 5, 2000564.	5.8	32
35	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, 2221-2227.	3.3	28
36	Using the Widely Available Blood Glucose Meter to Monitor Insulin and HbA1c. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 855-858.	2.2	26

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37	Fluorescence turn-on detection of pyrophosphate based on aggregation-induced emission property of 5-chlorosalicylaldehyde azine. <i>Analytical Methods</i> , 2015, 7, 753-758.	2.7	26
38	An electrochemical biosensor for double-stranded Wnt7B gene detection based on enzymatic isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 86, 75-82.	10.1	26
39	Photocaged G-Quadruplex DNAzyme and Aptamer by Post-Synthetic Modification on Phosphodiester Backbone. <i>Bioconjugate Chemistry</i> , 2017, 28, 549-555.	3.6	24
40	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, 18815-18822.	3.3	23
41	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.	6.5	21
42	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.	6.5	21
43	DNAzyme-Functionalized Gold Nanoparticles for Biosensing. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 93-120.	1.1	20
44	Cationic Peptide Conjugation Enhances the Activity of Peroxidase-Mimicking DNAzymes. <i>Bioconjugate Chemistry</i> , 2016, 27, 621-627.	3.6	20
45	Mechanoresponsive Fluorescence of 2-Aminobenzophenone Derivatives Based on Amorphous Phase to Crystalline Transformation with High Contrast Ratio. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21610-21615.	3.1	20
46	Organic Nanoparticles with Persistent Luminescence for In Vivo Afterglow Imaging-Guided Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2021, 27, 6911-6916.	3.3	20
47	Readily accessible rhodamine B-based photoresponsive material. <i>Science China Chemistry</i> , 2014, 57, 248-251.	8.2	19
48	Energy driven cascade recognition for selective detection of nucleic acids with high discrimination factor at room temperature. <i>Biosensors and Bioelectronics</i> , 2016, 79, 488-494.	10.1	18
49	Orthogonal Activation of RNA-Cleaving DNAzymes in Live Cells by Reactive Oxygen Species. <i>Angewandte Chemie</i> , 2019, 131, 14305-14310.	2.0	17
50	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.	7.4	16
51	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, 182, 2377-2385.	5.0	16
52	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, 179-186.	5.4	16
53	Photoactivatable aggregation-induced emission of triphenylmethanol. <i>Chemical Communications</i> , 2017, 53, 11130-11133.	4.1	14
54	Chemical synthesis of stimuli-responsive guide RNA for conditional control of CRISPR-Cas9 gene editing. <i>Chemical Science</i> , 2021, 12, 9934-9945.	7.4	13

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55	Selective and sensitive fluorescence "turn-on" detection of 4-thiouridine in nucleic acids via oxidative amination. <i>Chemical Communications</i> , 2019, 55, 13096-13099.	4.1	10
56	Wavelength-Selective Activation of Photocaged DNAzymes for Metal Ion Sensing in Live Cells. <i>ACS Omega</i> , 2021, 6, 13153-13160.	3.5	9
57	Quantification of total phosphorothioate in bacterial DNA by a bromoimane-based fluorescent method. <i>Biotechnology Journal</i> , 2016, 11, 824-830.	3.5	8
58	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.	3.3	6
59	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.	3.6	4
60	A ratiometric solid AIE sensor for detection of acetone vapor. <i>Talanta</i> , 2022, 236, 122845.	5.5	4
61	<i>In Situ</i> Visualizing Nascent RNA by Exploring DNA-Templated Oxidative Amination of 4-Thiouridine. <i>Bioconjugate Chemistry</i> , 2022, 33, 164-171.	3.6	1
62	Post-Synthetic Modification of Oligonucleotides Through Oxidative Amination of 4-Thio-2-Deoxyuridine. <i>Current Protocols</i> , 2021, 1, e274.	2.9	0