Yali Yuan

List of Publications by Year in Descending Order

72 papers	2,125 citations	30 h-index	43 g-index
72 ext. papers	2,453 ext. citations	8.3 avg, IF	5.21 L-index

#	Paper	IF	Citations
72	Porous FeO@COF-Immobilized gold nanoparticles with excellent catalytic performance for sensitive electrochemical detection of ATP. *Biosensors and Bioelectronics*, **2022**, 197, 113758	11.8	10
71	A core-brush 3D DNA nanostructure: the next generation of DNA nanomachine for ultrasensitive sensing and imaging of intracellular microRNA with rapid kinetics.. *Chemical Science*, **2021**, 12, 15953-15959	9.4	3
70	A novel self-enhanced carbon nitride platform coupled with highly effective dual-recycle strand displacement amplifying strategy for sensitive photoelectrochemical assay. *Biosensors and Bioelectronics*, **2021**, 184, 113227	11.8	2
69	Dual catalytic hairpin assembly and enzyme cascade catalysis amplification based sensitive dual-mode biosensor with significantly enhanced opposite signal readout. *Sensors and Actuators B: Chemical*, **2021**, 348, 130676	8.5	1
68	In Situ Formation of Multifunctional DNA Nanospheres for a Sensitive and Accurate Dual-Mode Biosensor for Photoelectrochemical and Electrochemical Assay. *Analytical Chemistry*, **2020**, 92, 8364-8370	7.8	30
67	Electrochemical biomolecule detection based on the regeneration of high-efficiency cascade catalysis for bifunctional nanozymes. *Chemical Communications*, **2020**, 56, 2276-2279	5.8	8
66	Highly Sensitive Photoelectrochemical Biosensor Based on Quantum Dots Sensitizing BiTe Nanosheets and DNA-Amplifying Strategies. *ACS Applied Materials & Interfaces*, **2020**, 12, 22624-22629	9.5	31
65	Lattice-Like DNA Tetrahedron Nanostructure as Scaffold to Locate GOx and HRP Enzymes for Highly Efficient Enzyme Cascade Reaction. *ACS Applied Materials & Interfaces*, **2020**, 12, 2871-2877	9.5	13
64	Simple and Regulable DNA Dimer Nanodevice to Arrange Cascade Enzymes for Sensitive Electrochemical Biosensing. *Analytical Chemistry*, **2020**, 92, 14197-14202	7.8	4
63	Dependent signal quenching and enhancing triggered by bipedal DNA walker for ultrasensitive photoelectrochemical biosensor. *Biosensors and Bioelectronics*, **2019**, 143, 111618	11.8	20
62	Wavelength distinguishable signal quenching and enhancing toward photoactive material 3,4,9,10-perylenetetracarboxylic dianhydride for simultaneous assay of dual metal ions. *Biosensors and Bioelectronics*, **2019**, 145, 111702	11.8	7
61	Reversible and Distance-Controllable DNA Scissor: A Regenerated Electrochemiluminescence Biosensing Platform for Ultrasensitive Detection of MicroRNA. *Analytical Chemistry*, **2019**, 91, 3239-3245	7.8	29
60	Electrocatalytic Efficiency Regulation between Target-Induced HRP-Mimicking DNAzyme and GOx with Low Background for Ultrasensitive Detection of Thrombin. *Analytical Chemistry*, **2019**, 91, 10289-10294	7.8	20
59	C@CN nanocomposites as quencher for signal-off photoelectrochemical aptasensor with Au nanoparticle decorated perylene tetracarboxylic acid as platform. *Analytica Chimica Acta*, **2019**, 1077, 281-287	6.6	10
58	Hg2+ Electrochemical Biosensor Based on Target Triggered Exonuclease III-Assisted Dual Cycle Amplification and Tetrahedron DNA Nanostructures as Signal Molecule Carrier. *Journal of the Electrochemical Society*, **2019**, 166, B336-B340	3.9	3
57	FeS2@AuNPs Nanocomposite as Mimicking Enzyme for Constructing Signal-off Sandwich-type Electrochemical Immunosensor Based on Electroactive Nickel Hexacyanoferrate as Matrix. *Electroanalysis*, **2019**, 31, 1019-1025	3	7
56	Highly-efficient luminol immobilization approach and exponential strand displacement reaction based electrochemiluminescent strategy for monitoring microRNA expression in cell. *Biosensors and Bioelectronics*, **2019**, 132, 62-67	11.8	14

55	Electrochemical lead(II) biosensor by using an ion-dependent split DNAzyme and a template-free DNA extension reaction for signal amplification. *Mikrochimica Acta*, **2019**, 186, 709	5.8	9
54	Self-enhanced PEI-Ru(II) complex with polyamino acid as booster to construct ultrasensitive electrochemiluminescence immunosensor for carcinoembryonic antigen detection. *Analytica Chimica Acta*, **2018**, 1001, 112-118	6.6	11
53	Manganese porphyrin decorated on DNA networks as quencher and mimicking enzyme for construction of ultrasensitive photoelectrochemistry aptasensor. *Biosensors and Bioelectronics*, **2018**, 104, 21-26	11.8	33
52	Methylene blue sensitized photoelectrochemical biosensor with 3,4,9,10-Perylene tetracarboxylic acid film as photoelectric material for highly sensitive Pb2+ detection. *Sensors and Actuators B: Chemical*, **2018**, 274, 458-463	8.5	17
51	Dynamical Regulation of Enzyme Cascade Amplification by a Regenerated DNA Nanotweezer for Ultrasensitive Electrochemical DNA Detection. *Analytical Chemistry*, **2018**, 90, 10701-10706	7.8	46
50	Dual triggers induced disassembly of DNA polymer decorated silver nanoparticle for ultrasensitive electrochemical Pb detection. *Analytica Chimica Acta*, **2018**, 1034, 56-62	6.6	20
49	Target-Induced DNA Mismatch for One-Spot Simultaneous Electrochemical Detection of Multiple Heavy Metals Based on the Amplification of DNA Concatemers. *Journal of the Electrochemical Society*, **2017**, 164, B81-B85	3.9	2
48	A Peptide Cleavage-Based Ultrasensitive Electrochemical Biosensor with an Ingenious Two-Stage DNA Template for Highly Efficient DNA Exponential Amplification. *Analytical Chemistry*, **2017**, 89, 8951-8956	7.8	18
47	l-cysteine induced manganese porphyrin electrocatalytic amplification with 3D DNA-Au@Pt nanoparticles as nanocarriers for sensitive electrochemical aptasensor. *Biosensors and Bioelectronics*, **2016**, 79, 86-91	11.8	19
46	Enzyme-assisted cycling amplification and DNA-templated in-situ deposition of silver nanoparticles for the sensitive electrochemical detection of Hg(2.). *Biosensors and Bioelectronics*, **2016**, 86, 630-635	11.8	33
45	An ultrasensitive "on-off-on" photoelectrochemical aptasensor based on signal amplification of a fullerene/CdTe quantum dots sensitized structure and efficient quenching by manganese porphyrin. *Chemical Communications*, **2016**, 52, 8138-41	5.8	56
44	Self-Enhanced Electrochemiluminescence Nanorods of Tris(bipyridine) Ruthenium(II) Derivative and Its Sensing Application for Detection of N-Acetyl-□-d-glucosaminidase. *Analytical Chemistry*, **2016**, 88, 2258-65	7.8	73
43	A sensitive electrochemiluminescence immunosensor based on luminophore capped Pd@Au core-shell nanoparticles as signal tracers and ferrocenyl compounds as signal enhancers. *Biosensors and Bioelectronics*, **2016**, 81, 334-340	11.8	39
42	An amplified electrochemical proximity immunoassay for the total protein of Nosema bombycis based on the catalytic activity of Fe3O4NPs towards methylene blue. *Biosensors and Bioelectronics*, **2016**, 81, 382-387	11.8	22
41	Amperometric nitrite sensor based on a glassy carbon electrode modified with multi-walled carbon nanotubes and poly(toluidine blue). *Mikrochimica Acta*, **2016**, 183, 1553-1561	5.8	30
40	Impedimetric aptasensor for nuclear factor kappa B with peroxidase-like mimic coupled DNA nanoladders as enhancer. *Biosensors and Bioelectronics*, **2016**, 81, 1-7	11.8	13
39	Hemin/G-quadruplex DNAzyme nanowires amplified luminol electrochemiluminescence system and its application in sensing silver ions. *RSC Advances*, **2016**, 6, 37221-37225	3.7	8
38	Sensitive Electrochemiluminescence Immunosensor for Detection of N-Acetyl-□-d-glucosaminidase Based on a "Light-Switch" Molecule Combined with DNA Dendrimer. *Analytical Chemistry*, **2016**, 88, 5797-803	7.8	41

37	Wavelength-resolved simultaneous photoelectrochemical bifunctional sensor on single interface: A newly in vitro approach for multiplexed DNA monitoring in cancer cells. *Biosensors and Bioelectronics*, **2016**, 81, 423-430	11.8	37
36	Ultrasensitive Lipopolysaccharides Detection Based on Doxorubicin Conjugated N-(Aminobutyl)-N-(ethylisoluminol) as Electrochemiluminescence Indicator and Self-Assembled Tetrahedron DNA Dendrimers as Nanocarriers. *Analytical Chemistry*, **2016**, 88, 5218-24	7.8	79
35	An electrochemiluminescence biosensor for dopamine based on the recognition of fullerene-derivative and the quenching of cuprous oxide nanocrystals. *RSC Advances*, **2015**, 5, 58019-58023	3.7	11
34	An electrochemiluminescence immunosensor for thyroid stimulating hormone based on polyamidoamine-norfloxacin functionalized Pd-Au core-shell hexoctahedrons as signal enhancers. *Biosensors and Bioelectronics*, **2015**, 71, 164-170	11.8	41
33	Sandwiched Electrochemiluminescent Peptide Biosensor for the Detection of Prognostic Indicator in Early-Stage Cancer Based on Hollow, Magnetic, and Self-Enhanced Nanosheets. *Small*, **2015**, 11, 3703-9	11	36
32	3,4,9,10-Perylenetetracarboxylic acid/o-phenylenediamine nanomaterials as novel redox probes for electrochemical aptasensor systems based on an Fe3O4 magnetic bead as a nonenzymatic catalyst. *Chemical Communications*, **2015**, 51, 7657-60	5.8	22
31	Tracing Phosphate Ions Generated during Loop-Mediated Isothermal Amplification for Electrochemical Detection of Nosema bombycis Genomic DNA PTP1. *Analytical Chemistry*, **2015**, 87, 10268-74	7.8	49
30	A multifunctional hemin@metal-organic framework and its application to construct an electrochemical aptasensor for thrombin detection. *Nanoscale*, **2015**, 7, 18232-8	7.7	140
29	A label-free and sensitive electrochemical aptasensor for thrombin based on the direct electron transfer of hemin and hemin@rGO nanosheets as the signal probe. *Analytical Methods*, **2015**, 7, 8771-8777	3.2	6
28	A self-enhanced electrochemiluminescence immunosensor based on L-Lys-Ru(dcbpy)3(2+) functionalized porous six arrises column nanorods for detection of CA15-3. *Biosensors and Bioelectronics*, **2015**, 74, 924-30	11.8	37
27	Self-enhanced electrochemiluminescence immunosensor based on nanowires obtained by a green approach. *Biosensors and Bioelectronics*, **2015**, 68, 72-77	11.8	31
26	A label-free electrochemical aptasensor based on the catalysis of manganese porphyrins for detection of thrombin. *Biosensors and Bioelectronics*, **2015**, 66, 585-9	11.8	37
25	A novel solid-state Ru(bpy)3(2+) electrochemiluminescence immunosensor based on poly(ethylenimine) and polyamidoamine dendrimers as co-reactants. *Talanta*, **2015**, 131, 192-7	6.2	35
24	An electrochemical aptasensor for thrombin using synergetic catalysis of enzyme and porous Au@Pd core-shell nanostructures for signal amplification. *Biosensors and Bioelectronics*, **2015**, 64, 423-8	11.8	43
23	Mediator-free triple-enzyme cascade electrocatalytic aptasensor with exonuclease-assisted target recycling and hybridization chain reaction amplification. *Biosensors and Bioelectronics*, **2014**, 55, 366-71	11.8	27
22	A pseudo triple-enzyme electrochemical aptasensor based on the amplification of Pt-Pd nanowires and hemin/G-quadruplex. *Analytica Chimica Acta*, **2014**, 834, 45-50	6.6	20
21	A pseudo triple-enzyme cascade amplified aptasensor for thrombin detection based on hemin/G-quadruplex as signal label. *Biosensors and Bioelectronics*, **2014**, 54, 415-20	11.8	30
20	A novel electrochemiluminescence aptasensor based on in situ generated proline and matrix polyamidoamine dendrimers as coreactants for signal amplication. *Biosensors and Bioelectronics*, **2014**, 55, 313-7	11.8	17

19	Ultrasensitive electrochemiluminescent aptasensor for ochratoxin A detection with the loop-mediated isothermal amplification. *Analytica Chimica Acta*, **2014**, 811, 70-5	6.6	46
18	A novel electrochemical aptasensor for highly sensitive detection of thrombin based on the autonomous assembly of hemin/G-quadruplex horseradish peroxidase-mimicking DNAzyme nanowires. *Analytica Chimica Acta*, **2014**, 832, 51-7	6.6	23
17	Amplified amperometric aptasensor for selective detection of protein using catalase-functional DNA-PtNPs dendrimer as a synergetic signal amplification label. *Biosensors and Bioelectronics*, **2014**, 60, 224-30	11.8	43
16	Sensitive pseudobienzyme electrocatalytic DNA biosensor for mercury(II) ion by using the autonomously assembled hemin/G-quadruplex DNAzyme nanowires for signal amplification. *Analytica Chimica Acta*, **2014**, 811, 23-8	6.6	34
15	Electrochemical immunosensor for detecting the spore wall protein of Nosema bombycis based on the amplification of hemin/G-quadruplex DNAzyme concatamers functionalized Pt@Pd nanowires. *Biosensors and Bioelectronics*, **2014**, 60, 118-23	11.8	43
14	Development of an electrochemical method for Ochratoxin A detection based on aptamer and loop-mediated isothermal amplification. *Biosensors and Bioelectronics*, **2014**, 55, 324-9	11.8	75
13	Impedimetric DNA-Based Biosensor for Silver Ions Detection with Hemin/G-Quadruplex Nanowire as Enhancer. *Electroanalysis*, **2014**, 26, 2732-2738	3	21
12	An ultrasensitive electrochemiluminescence immunoassay based on supersandwich DNA structure amplification with histidine as a co-reactant. *Biosensors and Bioelectronics*, **2013**, 50, 294-9	11.8	20
11	Ultrasensitive electrochemical immunosensors for clinical immunoassay using gold nanoparticle coated multi-walled carbon nanotubes as labels and horseradish peroxidase as an enhancer. *Analytical Methods*, **2013**, 5, 5279	3.2	18
10	An ultrasensitive electrochemical aptasensor with autonomous assembly of hemin-G-quadruplex DNAzyme nanowires for pseudo triple-enzyme cascade electrocatalytic amplification. *Chemical Communications*, **2013**, 49, 7328-30	5.8	45
9	Dendrimer functionalized reduced graphene oxide as nanocarrier for sensitive pseudobienzyme electrochemical aptasensor. *Biosensors and Bioelectronics*, **2013**, 42, 474-80	11.8	53
8	3,4,9,10-perylenetetracarboxylic acid/hemin nanocomposites act as redox probes and electrocatalysts for constructing a pseudobienzyme-channeling amplified electrochemical aptasensor. *Chemistry - A European Journal*, **2012**, 18, 14186-91	4.8	21
7	Hemin/G-quadruplex simultaneously acts as NADH oxidase and HRP-mimicking DNAzyme for simple, sensitive pseudobienzyme electrochemical detection of thrombin. *Chemical Communications*, **2012**, 48, 4621-3	5.8	72
6	Graphene-promoted 3,4,9,10-perylenetetracarboxylic acid nanocomposite as redox probe in label-free electrochemical aptasensor. *Biosensors and Bioelectronics*, **2011**, 30, 123-7	11.8	59
5	Electrochemical aptasensor based on the dual-amplification of G-quadruplex horseradish peroxidase-mimicking DNAzyme and blocking reagent-horseradish peroxidase. *Biosensors and Bioelectronics*, **2011**, 26, 4236-40	11.8	53
4	A Solid-State Electrochemiluminescence Immunosensor Based on MWCNTs-Nafion and Ru(bpy)32+/Nano-Pt Nanocomposites for Detection of □Fetoprotein. *Electroanalysis*, **2011**, 23, 1418-1426	3	20
3	A signal-on electrochemical probe-label-free aptasensor using gold-platinum alloy and stearic acid as enhancers. *Biosensors and Bioelectronics*, **2010**, 26, 881-5	11.8	22
2	An electrochemical enzyme bioaffinity electrode based on biotin-streptavidin conjunction and bienzyme substrate recycling for amplification. *Analytical Biochemistry*, **2010**, 405, 121-6	3.1	21

1	A novel label-free electrochemical aptasensor for thrombin based on the {nano-Au/thionine}n multilayer films as redox probes. *Analytica Chimica Acta*, **2010**, 668, 171-6	6.6	36