Yuwu Chi

List of Publications by Citations

80 papers	5,965 citations	32 h-index	77 g-index
82 ext. papers	6,600 ext. citations	6.4 avg, IF	5.82 L-index

#	Paper	IF	Citations
80	Polyamine-functionalized carbon quantum dots as fluorescent probes for selective and sensitive detection of copper ions. *Analytical Chemistry*, **2012**, 84, 6220-4	7.8	783
79	Electrochemiluminescence of water-soluble carbon nanocrystals released electrochemically from graphite. *Journal of the American Chemical Society*, **2009**, 131, 4564-5	16.4	702
78	One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. *Journal of Materials Chemistry*, **2012**, 22, 8764		466
77	Extraction of Electrochemiluminescent Oxidized Carbon Quantum Dots from Activated Carbon. *Chemistry of Materials*, **2010**, 22, 5895-5899	9.6	343
76	Graphene quantum dot as a green and facile sensor for free chlorine in drinking water. *Analytical Chemistry*, **2012**, 84, 8378-82	7.8	336
75	Gold nanoparticle-graphite-like C3N4 nanosheet nanohybrids used for electrochemiluminescent immunosensor. *Analytical Chemistry*, **2014**, 86, 4188-95	7.8	304
74	Encapsulation of strongly fluorescent carbon quantum dots in metal-organic frameworks for enhancing chemical sensing. *Analytical Chemistry*, **2014**, 86, 1223-8	7.8	252
73	Preparation of graphite-like carbon nitride nanoflake film with strong fluorescent and electrochemiluminescent activity. *Nanoscale*, **2013**, 5, 225-30	7.7	242
72	Dual-Emission of Lanthanide Metal-Organic Frameworks Encapsulating Carbon-Based Dots for Ratiometric Detection of Water in Organic Solvents. *Analytical Chemistry*, **2016**, 88, 1748-52	7.8	183
71	Graphene quantum dots, graphene oxide, carbon quantum dots and graphite nanocrystals in coals. *Nanoscale*, **2014**, 6, 7410-5	7.7	170
70	Graphitic Carbon Nitride Materials: Sensing, Imaging and Therapy. *Small*, **2016**, 12, 5376-5393	11	152
69	Encapsulation of Hemin in Metal-Organic Frameworks for Catalyzing the Chemiluminescence Reaction of the H2O2-Luminol System and Detecting Glucose in the Neutral Condition. *ACS Applied Materials & Interfaces*, **2015**, 7, 11322-9	9.5	147
68	Carbon-Based Dots Co-doped with Nitrogen and Sulfur for High Quantum Yield and Excitation-Independent Emission. *Angewandte Chemie*, **2013**, 125, 7954-7958	3.6	145
67	Graphene quantum dots/L-cysteine coreactant electrochemiluminescence system and its application in sensing lead(II) ions. *ACS Applied Materials & Interfaces*, **2014**, 6, 1646-51	9.5	123
66	Sensing applications of luminescent carbon based dots. *Analyst, The*, **2015**, 140, 7468-86	5	108
65	Carbon quantum dot-functionalized aerogels for NO2 gas sensing. *Analytical Chemistry*, **2013**, 85, 8065-9	7.8	101
64	Etching single-wall carbon nanotubes into green and yellow single-layer graphene quantum dots. *Carbon*, **2013**, 64, 245-251	10.4	96

63	Electrochemiluminescence emission from carbon quantum dot-sulfite coreactant system. *Carbon*, **2013**, 56, 12-17	10.4	92
62	Electrochemiluminescence imaging-based high-throughput screening platform for electrocatalysts used in fuel cells. *Analytical Chemistry*, **2012**, 84, 7700-7	7.8	69
61	Fast, sensitive, and selective ion-triggered disassembly and release based on tris(bipyridine)ruthenium(II)-functionalized metal-organic frameworks. *Analytical Chemistry*, **2015**, 87, 4864-70	7.8	64
60	Recyclable fluorescent gold nanocluster membrane for visual sensing of copper(II) ion in aqueous solution. *Analyst, The*, **2012**, 137, 2394-9	5	63
59	Inhibited Ru(bpy)3 2+ electrochemiluminescence related to electrochemical oxidation activity of inhibitors. *Analytical Chemistry*, **2007**, 79, 4521-8	7.8	60
58	Flow injection analysis system equipped with a newly designed electrochemiluminescent detector and its application for detection of 2-thiouracil. *Analytical Chemistry*, **2006**, 78, 1568-73	7.8	49
57	Enhanced electrogenerated chemiluminescence behavior of CN QDs@ CN nanosheet and its signal-on aptasensing for platelet derived growth factor. *Biosensors and Bioelectronics*, **2017**, 92, 695-701	11.8	46
56	Signal-on electrochemiluminescent aptasensors based on target controlled permeable films. *Chemical Communications*, **2015**, 51, 1035-8	5.8	45
55	Natural carbon-based dots from humic substances. *Scientific Reports*, **2015**, 5, 10037	4.9	45
54	High photoluminescent carbon based dots with tunable emission color from orange to green. *Nanoscale*, **2017**, 9, 1028-1032	7.7	40
53	Anodic, cathodic, and annihilation electrochemiluminescence emissions from hydrophilic conjugated polymer dots in aqueous medium. *ACS Applied Materials & Interfaces*, **2015**, 7, 15160-7	9.5	40
52	Installing logic gates in permeability controllable polyelectrolyte-carbon nitride films for detecting proteases and nucleases. *Analytical Chemistry*, **2015**, 87, 8851-7	7.8	40
51	Strong electrochemiluminescent interactions between carbon nitride nanosheet-reduced graphene oxide nanohybrids and folic acid, and ultrasensitive sensing for folic acid. *Analyst, The*, **2016**, 141, 3379-88	5	36
50	Colorimetric determination of glutathione by using a nanohybrid composed of manganese dioxide and carbon dots. *Mikrochimica Acta*, **2018**, 185, 291	5.8	33
49	An ultrasensitive aptameric sensor for proteins based on hyperbranched rolling circle amplification. *Chemical Communications*, **2013**, 49, 10115-7	5.8	32
48	Water-stable and ion exchange-free inorganic perovskite quantum dots encapsulated in solid paraffin and their application in light emitting diodes. *Nanoscale*, **2019**, 11, 5557-5563	7.7	29
47	A Study on the Electrochemical and Electrochemiluminescent Behavior of Homogentisic Acid at Carbon Electrodes. *Electroanalysis*, **2003**, 15, 208-218	3	28
46	Superhydrophobic Silica Aerogels Encapsulated Fluorescent Perovskite Quantum Dots for Reversible Sensing of SO in a 3D-Printed Gas Cell. *Analytical Chemistry*, **2019**, 91, 5058-5066	7.8	26

45	Enhancing air-stability of CH3NH3PbBr3 perovskite quantum dots by in-situ growth in metal-organic frameworks and their applications in light emitting diodes. *Journal of Solid State Chemistry*, **2019**, 272, 221-226	3.3	26
44	Electrochemiluminescent Reaction between Ru(bpy)32+ and Oxygen in Nafion Film. *Journal of Physical Chemistry C*, **2009**, 113, 20316-20321	3.8	26
43	Nitrogen-doped carbon-based dots prepared by dehydrating EDTA with hot sulfuric acid and their electrocatalysis for oxygen reduction reaction. *RSC Advances*, **2014**, 4, 32791-32795	3.7	25
42	Highly sensitive electrochemiluminescent sensing platform based on graphite carbon nitride nanosheets for detection of pyrophosphate ion in the synovial fluid. *Sensors and Actuators B: Chemical*, **2016**, 236, 8-15	8.5	25
41	Electrochemiluminescent Behavior of Tris(2,2-bipyridine) Ruthenium(II)/Triethylamine in Ionic Liquid Solution. *Journal of Physical Chemistry C*, **2008**, 112, 15570-15575	3.8	22
40	Simultaneous voltammetry detection of dopamine and uric acid in human serum and urine with a poly(procaterol hydrochloride) modified glassy carbon electrode. *Talanta*, **2018**, 185, 203-212	6.2	20
39	Preparation of protein-like silver-cysteine hybrid nanowires and application in ultrasensitive immunoassay of cancer biomarker. *Analytical Chemistry*, **2013**, 85, 9655-63	7.8	20
38	Turn-on fluorescent detection of cyanide based on polyamine-functionalized carbon quantum dots. *RSC Advances*, **2014**, 4, 3685-3689	3.7	18
37	An ionic liquid-mediated electrochemiluminescent sensor for the detection of sulfur dioxide at the ppb level. *Analyst, The*, **2013**, 138, 7006-11	5	17
36	Strong Electrochemiluminescence Emission from Oxidized Multiwalled Carbon Nanotubes. *Small*, **2019**, 15, e1901550	11	16
35	Electrochemiluminescent behavior of allopurinol in the presence of Ru(bpy)(3)(2+). *Talanta*, **2006**, 68, 1544-9	6.2	15
34	An Electrochemiluminescent Biosensor Based on Interactions between a Graphene Quantum Dot Sulfite Co-reactant System and Hydrogen Peroxide. *ChemElectroChem*, **2017**, 4, 1783-1789	4.3	14
33	Effects of C-Related Dangling Bonds and Functional Groups on the Fluorescent and Electrochemiluminescent Properties of Carbon-Based Dots. *Chemistry - A European Journal*, **2018**, 24, 4250-4254	4.8	14
32	Detection of cyanide by etching-induced electrochemiluminescence recovery. *Electrochimica Acta*, **2018**, 261, 29-34	6.7	14
31	Carbon based dot capped silver nanoparticles for efficient surface-enhanced Raman scattering. *Journal of Materials Chemistry C*, **2016**, 4, 7472-7477	7.1	14
30	Electrochemical investigation and determination of procaterol hydrochloride on poly(glutamic acid)/carboxyl functionalized multiwalled carbon nanotubes/polyvinyl alcohol modified glassy carbon electrode. *Talanta*, **2017**, 174, 436-443	6.2	13
29	Synthesis of Au13(glutathionato)8@ -cyclodextrin nanoclusters and their use as a fluorescent probe for silver ions. *Mikrochimica Acta*, **2014**, 181, 1573-1580	5.8	13
28	Zinc oxide quantum dots synthesized by electrochemical etching of metallic zinc in organic electrolyte and their electrochemiluminescent properties. *Electrochimica Acta*, **2011**, 56, 1387-1391	6.7	13

27	A Visual Solar UV Sensor Based on Paraffin-Perovskite Quantum Dot Composite Film. *ACS Applied Materials & Interfaces*, **2019**, 11, 16713-16719	9.5	12
26	Electrochemical study on the keto-enol tautomerization of p-hydroxyphenylpyruvic acid in aqueous solution. *Bioelectrochemistry*, **2003**, 60, 37-45	5.6	12
25	Tris(2,2□bipyridyl)ruthenium(II)-Nanomaterial Co-Reactant Electrochemiluminescence. *ChemElectroChem*, **2019**, 6, 3878-3884	4.3	10
24	Label-Free and Ultrasensitive Electrochemiluminescent Immunosensor Based on Novel Luminophores of CeSnO Nanocubes. *Analytical Chemistry*, **2021**, 93, 3618-3625	7.8	10
23	A novel hybrid platform of g-CN nanosheets /nucleic-acid-stabilized silver nanoclusters for sensing protein. *Analytica Chimica Acta*, **2019**, 1091, 112-118	6.6	9
22	Electrochemiluminescence from the Graphene- and Fullerene-Like Nanostructures of Glassy Carbon Microspheres and Its Application in Immunoassay.. *ACS Applied Bio Materials*, **2020**, 3, 6358-6367	4.1	8
21	Tailor-made peptide sensor for detection of matrix metalloproteinase 2 in blood serum. *Analytical Methods*, **2015**, 7, 5371-5374	3.2	7
20	Determination of tiopronin based on the enhancement of Ru(bpy)□+ co-reactant electrochemiluminescence. *Talanta*, **2015**, 134, 524-529	6.2	7
19	Reply to comment on □ne-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black□*Journal of Materials Chemistry*, **2012**, 22, 21777		7
18	Graphitic Carbon Nitride Nanosheets as Co-reactants for Tris(2,2?-bipyridine)ruthenium(II) Electrochemiluminescence. *ChemElectroChem*, **2019**, 6, 1673-1677	4.3	6
17	Black oxidized 3,3',5,5'-tetramethylbenzidine nanowires (oxTMB NWs) for enhancing Pt nanoparticle-based strip immunosensing. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4063-4071	4.4	6
16	Ultrasensitive chemiluminescence biosensors using nucleic acid-functionalized silver-cysteine nanowires as signal amplifying labels. *Analyst, The*, **2018**, 143, 1575-1582	5	6
15	Green synthesis of red-emission carbon based dots by microbial fermentation. *New Journal of Chemistry*, **2018**, 42, 8591-8595	3.6	6
14	Electrochemiluminescence revealing that HNO3-oxidized single-walled carbon nanotubes are essentially tubular graphene quantum dot-nanoassemblies. *Applied Surface Science*, **2020**, 525, 146432	6.7	5
13	Fullerene-Structural Carbon-Based Dots from C60 Molecules and their Optical Properties. *Particle and Particle Systems Characterization*, **2016**, 33, 916-923	3.1	5
12	Electrochemiluminescence for Characterizing the Polymerization Process during Graphitic Carbon Nitride Synthesis. *ChemElectroChem*, **2019**, 6, 3742-3746	4.3	5
11	Enzyme-free and label-free electrochemical biosensor for lead ion based on DNA concatamers and hexaammineruthenium. *Analytical Methods*, **2014**, 6, 4512	3.2	4
10	Simultaneous determination of six glycosidic aroma precursors in pomelo by ultra-high performance liquid chromatography-tandem mass spectrometry. *Analyst, The*, **2021**, 146, 1698-1704	5	4

9	Endowing chloroplasts with artificial "cell walls" using metal-organic frameworks. *Nanoscale*, **2020**, 12, 11582-11592	7.7	3
8	Omeprazole as a strong coreactant in the electrochemiluminescence of Ru(bpy)32+. *Electrochimica Acta*, **2014**, 123, 111-116	6.7	3
7	Water-Dispersed Perovskite 2-C18-PC Core–Shell Nanoparticles for Cell Imaging. *ACS Applied Nano Materials*,	5.6	3
6	A simple enzyme-catalyzed reaction induced "switch" type fluorescence biosensor based on carbon nitride nanosheets for the assay of alkaline phosphatase activity. *Analyst, The*, **2020**, 145, 6277-6282	5	3
5	A multilayer-graphene nanosheet film deposited on a ceramic substrate without a catalyst for constructing an electrochemiluminescence imaging platform. *Nanoscale*, **2019**, 11, 12132-12138	7.7	2
4	Exploring the electrochemiluminescent behavior of procaterol hydrochloride in the presence of Ru(bpy) and its analytical application in pharmaceutical preparation. *Luminescence*, **2017**, 32, 745-750	2.5	2
3	Colorimetric immunosensor based on glassy carbon microspheres test strips for the detection of prostate-specific antigen. *Mikrochimica Acta*, **2021**, 188, 366	5.8	2
2	A visualized ratiometric fluorescence sensing system for copper ions based on gold nanoclusters/perovskite quantum dot@SiO nanocomposites. *Analyst, The*, **2021**, 146, 7545-7553	5	1
1	Detection of divalent copper with improved accuracy by dual suppression of electrochemiluminescent recovery. *Journal of Electroanalytical Chemistry*, **2019**, 834, 145-149	4.1	1