Kangbing Wu

List of Publications by Year
in descending order

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90 papers	3,038 citations	109321 35 h-index	182427 51 g-index
90 all docs	90 docs citations	90 times ranked	3487 citing authors

#	Article	IF	Citations
1	Mesoporous silica-based electrochemical sensor for sensitive determination of environmental hormone bisphenol A. Analytica Chimica Acta, 2009, 638, 23-28.	5.4	179
2	Voltammetric behavior and determination of estrogens at Nafion-modified glassy carbon electrode in the presence of cetyltrimethylammonium bromide. Analytica Chimica Acta, 2002, 464, 209-216.	5.4	135
3	Multi-wall carbon nanotube film-based electrochemical sensor for rapid detection of Ponceau 4R and Allura Red. Food Chemistry, 2010, 122, 909-913.	8.2	110
4	Electrochemical sensor for toxic ractopamine and clenbuterol based on the enhancement effect of graphene oxide. Sensors and Actuators B: Chemical, 2012, 168, 178-184.	7.8	109
5	Tunable Electrochemistry of Electrosynthesized Copper Metalâ€“Organic Frameworks. Advanced Functional Materials, 2018, 28, 1706961.	14.9	94
6	Cu-BTC frameworks-based electrochemical sensing platform for rapid and simple determination of Sunset yellow and Tartrazine. Sensors and Actuators B: Chemical, 2016, 231, 12-17.	7.8	80
7	Voltammetric determination of diethylstilbestrol at carbon paste electrode using cetylpyridine bromide as medium. Talanta, 2002, 58, 747-754.	5.5	75
8	White-Light-Exciting, Layer-by-Layer-Assembled ZnCdHgSe Quantum Dots/Polymerized Ionic Liquid Hybrid Film for Highly Sensitive Photoelectrochemical Immunosensing of Neuron Specific Enolase. Analytical Chemistry, 2015, 87, 4237-4244.	6.5	70
9	Electrochemical Functionalization of N-Methyl-2-pyrrolidone-Exfoliated Graphene Nanosheets as Highly Sensitive Analytical Platform for Phenols. Analytical Chemistry, 2015, 87, 3294-3299.	6.5	68
10	Graphene prepared by one-pot solvent exfoliation as a highly sensitive platform for electrochemical sensing. Analytica Chimica Acta, 2014, 825, 26-33.	5.4	66
11	Molecularly imprinted electrochemical sensing interface based on in-situ-polymerization of amino-functionalized ionic liquid for specific recognition of bovine serum albumin. Biosensors and Bioelectronics, 2015, 74, 792-798.	10.1	66
12	Rapid, efficient and economic removal of organic dyes and heavy metals from wastewater by zinc-induced in-situ reduction and precipitation of graphene oxide. Journal of the Taiwan Institute of Chemical Engineers, 2018, 88, 137-145.	5.3	62
13	Electrochemistry of ZnO@reduced graphene oxides. Carbon, 2018, 130, 480-486.	10.3	58
14	Highly-sensitive and rapid detection of ponceau 4R and tartrazine in drinks using alumina microfibers-based electrochemical sensor. Food Chemistry, 2015, 166, 352-357.	8.2	57
15	Ballâ€Millâ€Exfoliated Graphene: Tunable Electrochemistry and Phenol Sensing. Small, 2019, 15, e1805567.	10.0	57
16	Unique 3D heterostructures assembled by quasi-2D Ni-MOF and CNTs for ultrasensitive electrochemical sensing of bisphenol A. Sensors and Actuators B: Chemical, 2020, 310, 127885.	7.8	55
17	Strategy for Highly Sensitive Electrochemical Sensing: In Situ Coupling of a Metalâ€“Organic Framework with Ball-Mill-Exfoliated Graphene. Analytical Chemistry, 2019, 91, 6043-6050.	6.5	53
18	Maternal arsenic exposure and birth outcomes: A birth cohort study in Wuhan, China. Environmental Pollution, 2018, 236, 817-823.	7.5	51

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19	Liquid-phase exfoliated graphene as highly-sensitive sensor for simultaneous determination of endocrine disruptors: Diethylstilbestrol and estradiol. Journal of Hazardous Materials, 2015, 283, 157-163.	12.4	50
20	Portable, Self-Powered, and Light-Addressable Photoelectrochemical Sensing Platforms Using pH Meter Readouts for High-Throughput Screening of Thrombin Inhibitor Drugs. Analytical Chemistry, 2018, 90, 9366-9373.	6.5	49
21	Electrochemical Tuning the Activity of Nickel Nanoparticle and Application in Sensitive Detection of Chemical Oxygen Demand. Journal of Physical Chemistry C, 2011, 115, 22845-22850.	3.1	47
22	Morphology-dependent electrochemical sensing performance of metal (Ni, Co, Zn)-organic frameworks. Analytica Chimica Acta, 2018, 1031, 60-66.	5.4	45
23	Highly sensitive electrochemical sensor for sunset yellow based on the enhancement effect of alumina microfibers. Sensors and Actuators B: Chemical, 2013, 185, 582-586.	7.8	44
24	Voltammetric myoglobin sensor based on a glassy carbon electrode modified with a composite film consisting of carbon nanotubes and a molecularly imprinted polymerized ionic liquid. Mikrochimica Acta, 2017, 184, 195-202.	5.0	42
25	Modification of montmorillonite with cationic surfactant and application in electrochemical determination of 4-chlorophenol. Colloids and Surfaces B: Biointerfaces, 2008, 65, 281-284.	5.0	40
26	Reduced graphene oxide-ZnO nanocomposite based electrochemical sensor for sensitive and selective monitoring of 8-hydroxy-2â€²-deoxyguanosine. Talanta, 2018, 185, 550-556.	5.5	39
27	Advanced Functional Electroactive and Photoactive Materials for Monitoring the Environmental Pollutants. Advanced Functional Materials, 2021, 31, 2008227.	14.9	39
28	Enhanced-oxidation and highly-sensitive detection of acetaminophen, guanine and adenine using NMP-exfoliated graphene nanosheets-modified electrode. Electrochimica Acta, 2015, 166, 285-292.	5.2	38
29	Highly-sensitive electrochemical sensing platforms for food colourants based on the property-tuning of porous carbon. Analytica Chimica Acta, 2015, 887, 75-81.	5.4	38
30	Electrochemical sensing performance of Eu-BTC and Er-BTC frameworks toward Sunset Yellow. Analytica Chimica Acta, 2019, 1062, 78-86.	5.4	38
31	Electrochemistry and voltammetry of procaine using a carbon nanotube film coated electrode. Bioelectrochemistry, 2006, 68, 144-149.	4.6	37
32	Application of Multiâ€walled Carbon Nanotubes/Nafion Composite Film in Electrochemical Determination of Pb²⁺. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 103-113.	2.1	37
33	Electrochemical sensor for hazardous food colourant quinoline yellow based on carbon nanotube-modified electrode. Food Chemistry, 2011, 128, 569-572.	8.2	36
34	Synergetic signal amplification of graphene-Fe2O3 hybrid and hexadecyltrimethylammonium bromide as an ultrasensitive detection platform for bisphenol A. Electrochimica Acta, 2014, 115, 434-439.	5.2	35
35	Electrochemical immunoassay for the prostate specific antigen using a reduced graphene oxide functionalized with a high molecular-weight silk peptide. Mikrochimica Acta, 2015, 182, 2061-2067.	5.0	35
36	Photoelectrochemical immunosensing of tetrabromobisphenol A based on the enhanced effect of dodecahedral gold nanocrystals/MoS2 nanosheets. Sensors and Actuators B: Chemical, 2017, 245, 205-212.	7.8	35

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37	Defect-dependent electrochemistry of exfoliated graphene layers. Carbon, 2019, 154, 125-131.	10.3	35
38	In-situ synthesis of carbon-encapsulated Ni nanoparticles decorated graphene nanosheets with high reactivity toward glucose oxidation and sensing. Carbon, 2019, 148, 44-51.	10.3	35
39	Lithium-doped NiO nanofibers for non-enzymatic glucose sensing. Electrochemistry Communications, 2015, 61, 89-92.	4.7	34
40	N-methyl-2-pyrrolidone exfoliated graphene as highly sensitive analytical platform for carbendazim. Sensors and Actuators B: Chemical, 2018, 274, 551-559.	7.8	33
41	Triethylamine-controlled Cu-BTC frameworks for electrochemical sensing fish freshness. Analytica Chimica Acta, 2019, 1085, 68-74.	5.4	33
42	Morphology-dependent electrochemistry of FeOOH nanostructures. Electrochemistry Communications, 2016, 68, 10-14.	4.7	32
43	Electrochemical determination of lead(II) using a montmorillonite calcium-modified carbon paste electrode. Mikrochimica Acta, 2007, 158, 255-260.	5.0	30
44	Versatile Matrix for Constructing Enzyme-Based Biosensors. ACS Applied Materials & Interfaces, 2014, 6, 17296-17305.	8.0	29
45	Electrochemical tuning of the activity and structure of a copper-cobalt micro-nano film on a gold electrode, and its application to the determination of glucose and of Chemical Oxygen Demand. Mikrochimica Acta, 2015, 182, 515-522.	5.0	28
46	Simultaneous determination of environmental estrogens: Diethylstilbestrol and estradiol using Cu-BTC frameworks-sensitized electrode. Talanta, 2016, 159, 215-221.	5.5	28
47	Electrochemical enhancement of long alkyl-chained surfactants for sensitive determination of tetrabromobisphenol A. Electrochimica Acta, 2016, 190, 490-494.	5.2	28
48	Tuning electrochemical behaviors of N-methyl-2-pyrrolidone liquid exfoliated graphene nanosheets by centrifugal speed-based grading. Carbon, 2018, 129, 183-190.	10.3	27
49	Assembling gold nanorods on a poly-cysteine modified glassy carbon electrode strongly enhance the electrochemical reponse to tetrabromobisphenol A. Mikrochimica Acta, 2016, 183, 689-696.	5.0	26
50	Preparation of three-dimensionally ordered macroporous polycysteine film and application in sensitive detection of 4-chlorophenol. Electrochimica Acta, 2014, 130, 734-739.	5.2	23
51	Resonance energy transfer between ZnCdHgSe quantum dots and gold nanorods enhancing photoelectrochemical immunosensing of prostate specific antigen. Analytica Chimica Acta, 2016, 943, 106-113.	5.4	23
52	Potential-Tunable Metalâ€“Organic Frameworks: Electrosynthesis, Properties, and Applications for Sensing of Organic Molecules. Journal of Physical Chemistry C, 2019, 123, 2248-2255.	3.1	22
53	Sensitive Adsorption Stripping Voltammetric Determination of Reserpine by a Glassy Carbon Electrode Modified with Multi-Wall Carbon Nanotubes. Mikrochimica Acta, 2005, 149, 73-78.	5.0	21
54	Cu-BTC frameworks based electrochemical sensor for hazardous malachite green in aquaculture. Analytica Chimica Acta, 2021, 1162, 338473.	5.4	19

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55	Electrochemical Sensing of Rutin Using an MCM-41 Modified Electrode. Analytical Letters, 2009, 42, 678-688.	1.8	17
56	Highlyâ€sensitive Electrochemical Sensor for Cd²⁺ and Pb²⁺ Based on the Synergistic Enhancement of Exfoliated Graphene Nanosheets and Bismuth. Electroanalysis, 2016, 28, 63-68.	2.9	17
57	Electrochemical enhancement of acetylene black film as sensitive sensing platform for toxic tetrabromobisphenol A. RSC Advances, 2015, 5, 105837-105843.	3.6	16
58	Highly sensitive electrochemical sensor for toxic ractopamine based on the enhancement effect of acetylene black nanoparticles. Analytical Methods, 2015, 7, 8069-8077.	2.7	16
59	Highâ€Performance Hydrazine Sensor Based on Graphene Nano Platelets Supported Metal Nanoparticles. Electroanalysis, 2016, 28, 126-132.	2.9	16
60	Electrochemical Determination of 10-Hydroxycamptothecin Using a Multi-Wall Carbon Nanotube-Modified Electrode. Mikrochimica Acta, 2006, 152, 255-260.	5.0	15
61	Trace analysis of ponceau 4R based on the signal amplification of copper-based metal-organic framework modified electrode. Journal of Electroanalytical Chemistry, 2017, 794, 229-234.	3.8	15
62	Enhanced effects of ionic liquid and gold nanoballs on the photoelectrochemical sensing performance of WS2 nanosheets towards 2,4,6-tribromophenol. Electrochimica Acta, 2018, 271, 551-559.	5.2	15
63	Detection of Tumor Marker Using ZnO@Reduced Graphene Oxide Decorated with Alkaline Phosphatase-Labeled Magnetic Beads. ACS Applied Nano Materials, 2019, 2, 7747-7754.	5.0	15
64	Synergetic enhancement of gold nanoparticles and 2-mercaptobenzothiazole as highly-sensitive sensing strategy for tetrabromobisphenol A. Scientific Reports, 2016, 6, 26044.	3.3	14
65	Polyvinylpyrrolidone-assisted solvent exfoliation of black phosphorus nanosheets and electrochemical sensing of p-nitrophenol. Analytica Chimica Acta, 2021, 1167, 338594.	5.4	14
66	Electrochemical determination of uric acid using a mesoporous SiO2-modified electrode. Mikrochimica Acta, 2008, 161, 249-253.	5.0	13
67	Simultaneous detection of 4-chlorophenol and 4-nitrophenol using a Ti₃C₂T_x MXene based electrochemical sensor. Analyst, The, 2021, 146, 7593-7600.	3.5	13
68	Fabrication of an electrochemical immunosensor for Î±-fetoprotein based on a poly-L-lysine-single-walled carbon nanotubes/Prussian blue composite film interface. Journal of Solid State Electrochemistry, 2016, 20, 2217-2222.	2.5	12
69	Morphology-dependent Electrochemical Enhancements of Porous Carbon as Sensitive Determination Platform for Ascorbic Acid, Dopamine and Uric Acid. Scientific Reports, 2016, 6, 22309.	3.3	12
70	Iron oxyhydroxide nanorods with high electrochemical reactivity as a sensitive and rapid determination platform for 4-chlorophenol. Journal of Hazardous Materials, 2016, 307, 36-42.	12.4	12
71	Metal Centers and Organic Ligands Determine Electrochemistry of Metalâ€“Organic Frameworks. Small, 2022, 18, e2106607.	10.0	12
72	Electrochemical Determination of p-Chlorophenol Based on the Surface Enhancement Effects of Mesoporous TiO[sub 2]-Modified Electrode. Journal of the Electrochemical Society, 2009, 156, F151.	2.9	10

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73	Signal enhancement of cetyltrimethylammonium bromide as a highly-sensitive sensing strategy for tetrabromobisphenol A. Journal of Electroanalytical Chemistry, 2016, 770, 39-43.	3.8	10
74	Monodispersed Ni active sites anchored on N-doped porous carbon nanosheets as high-efficiency electrocatalyst for hydrogen peroxide sensing. Analytica Chimica Acta, 2021, 1179, 338812.	5.4	10
75	Electrochemical sensing of terabromobisphenol A at a polymerized ionic liquid film electrode and the enhanced effects of anions. Ionics, 2018, 24, 2843-2850.	2.4	9
76	Morphology-controlled electrochemical sensing of erbium- benzenetricarboxylic acid frameworks for azo dyes and flavonoids. Sensors and Actuators B: Chemical, 2020, 304, 127370.	7.8	9
77	Twoâ€Dimensional Red Phosphorus Nanosheets: Morphology Tuning and Electrochemical Sensing of Aromatic Amines. Small Methods, 2021, 5, e2100720.	8.6	8
78	Highly sensitive electrochemical detection of bisphenol A based on the cooperative enhancement effect of the grapheneâ€“Ni(OH)₂hybrid and hexadecyltrimethylammonium bromide. Analytical Methods, 2015, 7, 9261-9267.	2.7	7
79	Electrochemical sensing platform for tetrabromobisphenol A at pM level based on the synergetic enhancement effects of graphene and dioctadecyldimethylammonium bromide. Analytica Chimica Acta, 2016, 935, 90-96.	5.4	7
80	Poly(sulfosalicylic acid)-functionalized gold nanoparticles for the detection of tetrabromobisphenol A at pM concentrations. Journal of Hazardous Materials, 2020, 388, 121733.	12.4	7
81	Reusable Boron-Doped Diamond Electrodes for the Semi-Continuous Detection of Tetrabromobisphenol A. IEEE Sensors Journal, 2018, 18, 5219-5224.	4.7	6
82	Theoretical study of the ligand effect on NHCâ€“cobalt-catalyzed hydrogenation of ketones. Catalysis Science and Technology, 2019, 9, 5315-5321.	4.1	6
83	N-methylpyrrolidone exfoliated graphene as sensitive electrochemical sensing platform for 10-Hydroxycamptothecine. Journal of Electroanalytical Chemistry, 2018, 818, 210-215.	3.8	5
84	Structure and magnetic properties of Ni-doped ZnO powder. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 770-773.	1.0	4
85	Sensitive and rapid monitoring of water pollution level based on the signal enhancement of an activated glassy carbon electrode. Analytical Methods, 2012, 4, 2715.	2.7	4
86	Substitution group effects of 2-mercaptobenzothiazole on gold nanoparticles toward electrochemical oxidation and sensing of tetrabromobisphenol A. Electrochimica Acta, 2018, 270, 517-525.	5.2	4
87	Electrochemistry of Solvent-Exfoliated Red Phosphorus Nanosheets. Sensors and Actuators B: Chemical, 2020, 320, 128359.	7.8	4
88	Heterocyclic Microporous Polymers: Hypercrosslinked Aromatic Heterocyclic Microporous Polymers: A New Class of Highly Selective CO2Capturing Materials (Adv. Mater. 42/2012). Advanced Materials, 2012, 24, 5702-5702.	21.0	3
89	Porous Carbon Modified Electrode as a Highlyâ€sensitive Electrochemical Sensing Platform for Salvianolic Acidâ€…B. Electroanalysis, 2016, 28, 235-242.	2.9	3
90	Impedance sensing platform for 4,4â€²-dibromobiphenyl based on a molecularly imprinted polymerized ionic liquid film/gold nanoparticle-modified glassy carbon electrode. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	3