

Rong-Mei Kong

List of Publications by Year in descending order

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docs citations

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times ranked

7168
citing authors

#	ARTICLE	IF	CITATIONS
1	Grapheneâ€œDNAzyme Based Biosensor for Amplified Fluorescence â€œTurn-Onâ€•Detection of Pb²⁺ with a High Selectivity. Analytical Chemistry, 2011, 83, 5062-5066.	3.2	389
2	Selfâ€œStanding CoP Nanosheets Array: A Threeâ€œDimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. ChemElectroChem, 2017, 4, 1840-1845.	1.7	345
3	Recent progress in transition metal phosphides with enhanced electrocatalysis for hydrogen evolution. Nanoscale, 2018, 10, 21617-21624.	2.8	312
4	Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. Nanoscale, 2017, 9, 4793-4800.	2.8	268
5	A novel aptamer-functionalized MoS2 nanosheet fluorescent biosensor for sensitive detection of prostate specific antigen. Analytical and Bioanalytical Chemistry, 2015, 407, 369-377.	1.9	207
6	Highly efficient electrochemical ammonia synthesis <i>via</i> nitrogen reduction reactions on a VN nanowire array under ambient conditions. Chemical Communications, 2018, 54, 5323-5325.	2.2	203
7	A Metalâ€œOrganic Framework as Selectivity Regulator for Fe³⁺ and Ascorbic Acid Detection. Analytical Chemistry, 2019, 91, 12453-12460.	3.2	163
8	Novel turn-on fluorescent detection of alkaline phosphatase based on green synthesized carbon dots and MnO ₂ nanosheets. Talanta, 2017, 165, 136-142.	2.9	153
9	Graphene oxide quantum dots@silver coreâ€œshell nanocrystals as turn-on fluorescent nanoprobe for ultrasensitive detection of prostate specific antigen. Biosensors and Bioelectronics, 2015, 74, 909-914.	5.3	147
10	A MnCo₂S₄ nanowire array as an earth-abundant electrocatalyst for an efficient oxygen evolution reaction under alkaline conditions. Journal of Materials Chemistry A, 2017, 5, 17211-17215.	5.2	146
11	Copperâ€œNitride Nanowires Array: An Efficient Dualâ€œFunctional Catalyst Electrode for Sensitive and Selective Nonâ€œEnzymatic Glucose and Hydrogen Peroxide Sensing. Chemistry - A European Journal, 2017, 23, 4986-4989.	1.7	140
12	Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. Chemical Communications, 2017, 53, 5710-5713.	2.2	138
13	A Boric Acid-Functionalized Lanthanide Metalâ€œOrganic Framework as a Fluorescence â€œTurn-onâ€•Probe for Selective Monitoring of Hg²⁺ and CH₃Hg⁺. Analytical Chemistry, 2020, 92, 3366-3372.	3.2	135
14	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. Chemistry - A European Journal, 2017, 23, 4435-4441.	1.7	134
15	Ni(OH)₂ Nanoparticles Embedded in Conductive Microrod Array: An Efficient and Durable Electrocatalyst for Alkaline Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 651-655.	5.5	123
16	A Cu₃Pâ€œCoP hybrid nanowire array: a superior electrocatalyst for acidic hydrogen evolution reactions. Chemical Communications, 2017, 53, 12012-12015.	2.2	110
17	Determination of phthalate esters in environmental water by magnetic Zeolitic Imidazolate Framework-8 solid-phase extraction coupled with high-performance liquid chromatography. Journal of Chromatography A, 2015, 1409, 46-52.	1.8	108
18	Ultrasensitive electrochemical immunosensor based on horseradish peroxidase (HRP)-loaded silica-poly(acrylic acid) brushes for protein biomarker detection. Biosensors and Bioelectronics, 2016, 75, 383-388.	5.3	104

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19	Energy-efficient electrolytic hydrogen generation using a Cu ₃ P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 420-423.	3.0	101
20	Cr ₂ O ₃ nanofiber: a high-performance electrocatalyst toward artificial N ₂ fixation to NH ₃ under ambient conditions. <i>Chemical Communications</i> , 2018, 54, 12848-12851.	2.2	100
21	A Co-MOF nanosheet array as a high-performance electrocatalyst for the oxygen evolution reaction in alkaline electrolytes. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 344-347.	3.0	90
22	A cobalt-borate nanosheet array: an efficient and durable non-noble-metal electrocatalyst for water oxidation at near neutral pH. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7305-7308.	5.2	79
23	Enhanced electrocatalysis for alkaline hydrogen evolution by Mn doping in a Ni ₃ S ₂ nanosheet array. <i>Chemical Communications</i> , 2018, 54, 10100-10103.	2.2	72
24	The role of l-histidine as molecular tongs: a strategy of grasping Tb ³⁺ using ZIF-8 to design sensors for monitoring an anthrax biomarker on-the-spot. <i>Chemical Science</i> , 2020, 11, 2407-2413.	3.7	71
25	Hydrazine-assisted electrolytic hydrogen production: CoS ₂ nanoarray as a superior bifunctional electrocatalyst. <i>New Journal of Chemistry</i> , 2017, 41, 4754-4757.	1.4	70
26	A label-free electrochemical biosensor for highly sensitive and selective detection of DNA via a dual-amplified strategy. <i>Biosensors and Bioelectronics</i> , 2014, 54, 442-447.	5.3	64
27	Replacing Oxygen Evolution with Hydrazine Oxidation at the Anode for Energy-Saving Electrolytic Hydrogen Production. <i>ChemElectroChem</i> , 2017, 4, 481-484.	1.7	63
28	Niche nanoparticle-based FRET assay for bleomycin detection via DNA scission. <i>Biosensors and Bioelectronics</i> , 2016, 85, 76-82.	5.3	57
29	Facile synthesis of ZnO/CdS@ZIF-8 core-shell nanocomposites and their applications in photocatalytic degradation of organic dyes. <i>RSC Advances</i> , 2017, 7, 31365-31371.	1.7	54
30	Turn-on fluorescence detection of Î²-glucuronidase using RhB@MOF-5 as an ultrasensitive nanoprobe. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 1-6.	4.0	51
31	Pyrophosphate-regulated Zn ²⁺ -dependent DNAzyme activity: An amplified fluorescence sensing strategy for alkaline phosphatase. <i>Biosensors and Bioelectronics</i> , 2013, 50, 351-355.	5.3	50
32	A label-free DNAzyme fluorescence biosensor for amplified detection of Pb ²⁺ -based on cleavage-induced G-quadruplex formation. <i>Talanta</i> , 2016, 147, 302-306.	2.9	50
33	Core-Shell NiFe-LDH@NiFe-B Nanoarray: In Situ Electrochemical Surface Derivation Preparation toward Efficient Water Oxidation Electrocatalysis in near-Neutral Media. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19502-19506.	4.0	48
34	Aptamer based photoelectrochemical determination of tetracycline using a spindle-like ZnO-CdS@Au nanocomposite. <i>Mikrochimica Acta</i> , 2017, 184, 4367-4374.	2.5	47
35	A nickel-borate-phosphate nanoarray for efficient and durable water oxidation under benign conditions. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 840-844.	3.0	46
36	Label-free fluorescence turn-on aptasensor for prostate-specific antigen sensing based on aggregation-induced emission-silica nanospheres. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5757-5765.	1.9	46

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37	Self-assembled gold nanoclusters for fluorescence turn-on and colorimetric dual-readout detection of alkaline phosphatase activity via DCIP-mediated fluorescence resonance energy transfer. <i>Talanta</i> , 2019, 194, 55-62.	2.9	44
38	A label-free fluorescence turn-on assay for glutathione detection by using MnO ₂ nanosheets assisted aggregation-induced emission-silica nanospheres. <i>Talanta</i> , 2017, 169, 1-7.	2.9	41
39	Enhanced biosensing platform constructed using urchin-like ZnO-Au@CdS microspheres based on the combination of photoelectrochemical and bioetching strategies. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1753-1761.	4.0	37
40	Detection of glutathione based on MnO ₂ nanosheet-gated mesoporous silica nanoparticles and target induced release of glucose measured with a portable glucose meter. <i>Mikrochimica Acta</i> , 2018, 185, 44.	2.5	37
41	A versatile DNA detection scheme based on the quenching of fluorescent silver nanoclusters by MoS ₂ nanosheets: Application to aptamer-based determination of hepatitis B virus and of dopamine. <i>Mikrochimica Acta</i> , 2017, 184, 4417-4424.	2.5	36
42	Uricase based fluorometric determination of uric acid based on the use of graphene quantum dot@silver core-shell nanocomposites. <i>Mikrochimica Acta</i> , 2018, 185, 63.	2.5	34
43	In-situ synthesis of 3D Cu ₂ O@Cu-based MOF nanobelt arrays with improved conductivity for sensitive photoelectrochemical detection of vascular endothelial growth factor 165. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112481.	5.3	33
44	Fe(TCNQ) ₂ Nanorod Array: A Conductive Non-Noble-Metal Electrocatalyst toward Water Oxidation in Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1545-1549.	3.2	31
45	Colorimetric detection of Hg(II) based on the gold amalgam-triggered reductase mimetic activity in aqueous solution by employing AuNP@MOF nanoparticles. <i>Analyst</i> , 2020, 145, 1362-1367.	1.7	30
46	Tungsten disulfide nanosheet and exonuclease III co-assisted amplification strategy for highly sensitive fluorescence polarization detection of DNA glycosylase activity. <i>Analytica Chimica Acta</i> , 2015, 887, 216-223.	2.6	29
47	Naphthalimide Derivative-Functionalized Metal-Organic Framework for Highly Sensitive and Selective Determination of Aldehyde by Space Confinement-Induced Sensitivity Enhancement Effect. <i>Analytical Chemistry</i> , 2021, 93, 8219-8227.	3.2	29
48	Studies on the interaction of apigenin with calf thymus DNA by spectroscopic methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1666-1670.	2.0	28
49	A novel ratiometric fluorescence nanoprobe for sensitive determination of uric acid based on CD@ZIF-CuNC nanocomposites. <i>Mikrochimica Acta</i> , 2021, 188, 259.	2.5	28
50	o-Phenylenediamine/gold nanocluster-based nanoplatfor for ratiometric fluorescence detection of alkaline phosphatase activity. <i>Talanta</i> , 2020, 212, 120768.	2.9	26
51	A superquenched DNAzyme-erythrosine complex: a convenient, universal and low-background strategy for fluorescence catalytic biosensors. <i>Chemical Communications</i> , 2013, 49, 6644.	2.2	24
52	Fluorescent and colorimetric determination of glutathione based on the inner filter effect between silica nanoparticle-gold nanocluster nanocomposites and oxidized 3,3',5,5'-tetramethylbenzidine. <i>Analyst</i> , 2020, 145, 6254-6261.	1.7	24
53	Cascade enzymatic catalysis in poly(acrylic acid) brushes-nanospherical silica for glucose detection. <i>Talanta</i> , 2016, 155, 265-271.	2.9	23
54	A G-triplex based molecular beacon for label-free fluorescence "turn-on" detection of bleomycin. <i>Analyst</i> , 2018, 143, 5474-5480.	1.7	23

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55	Molecular beacon-templated silver nanoclusters as a fluorescent probe for determination of bleomycin via DNA scission. <i>Mikrochimica Acta</i> , 2018, 185, 403.	2.5	23
56	A carbon dot doped lanthanide coordination polymer nanocomposite as the ratiometric fluorescent probe for the sensitive detection of alkaline phosphatase activity. <i>Analyst, The</i> , 2021, 146, 2862-2870.	1.7	21
57	Sensitive fluorescence detection of heparin based on self-assembly of mesoporous silica nanoparticle-gold nanoclusters with emission enhancement characteristics. <i>Analyst, The</i> , 2018, 143, 5388-5394.	1.7	20
58	Ultra-sensitive label-free electrochemical detection of the acute leukaemia gene Pax-5a based on enzyme-assisted cycle amplification. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111593.	5.3	20
59	Combination of pipette tip solid phase extraction and high performance liquid chromatography for determination of plant growth regulators in food samples based on the electrospun covalent organic framework/polyacrylonitrile nanofiber as highly efficient sorbent. <i>Journal of Chromatography A</i> , 2022, 1661, 462692.	1.8	19
60	Photoelectrochemical determination of trypsin by using an indium tin oxide electrode modified with a composite prepared from MoS ₂ nanosheets and TiO ₂ nanorods. <i>Mikrochimica Acta</i> , 2019, 186, 490.	2.5	17
61	A highly water-soluble, sensitive, coumarin-based fluorescent probe for detecting thiols, and its application in bioimaging. <i>New Journal of Chemistry</i> , 2017, 41, 15277-15282.	1.4	16
62	A tunable pH-sensing system based on Ag nanoclusters capped by hyperbranched polyethyleneimine with different molecular weights. <i>Talanta</i> , 2016, 146, 549-555.	2.9	15
63	Luminescent metal organic frameworks with recognition sites for detection of hypochlorite through energy transfer. <i>Mikrochimica Acta</i> , 2019, 186, 740.	2.5	14
64	Simple and fast determination of catecholamines in pharmaceutical samples using Ag ⁺ -3,3',5,5'-tetramethylbenzidine as a colorimetric probe. <i>Analytical Methods</i> , 2015, 7, 6785-6790.	1.3	13
65	Sensitive fluorescence turn-on detection of bleomycin based on a superquenched perylene-DNA complex. <i>RSC Advances</i> , 2015, 5, 86849-86854.	1.7	13
66	Hg ²⁺ -mediated stabilization of G-triplex based molecular beacon for label-free fluorescence detection of Hg ²⁺ , reduced glutathione, and glutathione reductase activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117855.	2.0	13
67	A novel Cd-MOF with enhanced thermo-sensitivity: the rational design, synthesis and multipurpose applications. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3096-3104.	3.0	13
68	An amplified fluorescence detection of T4 polynucleotide kinase activity based on coupled exonuclease III reaction and a graphene oxide platform. <i>Analyst, The</i> , 2015, 140, 1827-1831.	1.7	12
69	A label-free and fluorescence turn-on assay for sensitive detection of hyaluronidase based on hyaluronan-induced perylene self-assembly. <i>New Journal of Chemistry</i> , 2019, 43, 3383-3389.	1.4	10
70	Microfiber polarization modulation in response to protein induced self-assembly of functionalized magnetic nanoparticles. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	9
71	A label-free G-quadruplex-based fluorescence assay for sensitive detection of alkaline phosphatase with the assistance of Cu ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117607.	2.0	9
72	Convenient and sensitive colorimetric detection of melamine in dairy products based on Cu(ii)-H ₂ O ₂ -3,3',5,5'-tetramethylbenzidine system. <i>RSC Advances</i> , 2018, 8, 34877-34882.	1.7	8

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73	A DNzyme-based normalized fluorescence strategy for direct quantification of endogenous zinc in living cells. <i>Chemical Communications</i> , 2022, 58, 577-580.	2.2	6
74	A Cell-Anchored and Self-Calibrated DNA Nanoplatform for in Situ Imaging and Quantification of Endogenous MicroRNA in Live Cells: Introducing Two Controls to Normalize the Sensing Signals. <i>CCS Chemistry</i> , 2023, 5, 176-190.	4.6	6
75	Facile synthesis of branched Au nanocrystals with sub-10-nm arms and their applications for ethanol oxidation reaction. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	4
76	Optimization of Release Conditions for Acetylated Amino Sugars from Glycoprotein with the Aid of Experimental Design and Their Sensitive Determination with HPLC. <i>Chromatographia</i> , 2017, 80, 861-872.	0.7	3
77	Long-wavelength emission carbon dots as self-ratiometric fluorescent nanoprobe for sensitive determination of Zn ²⁺ . <i>Mikrochimica Acta</i> , 2022, 189, 55.	2.5	3