

Zhengquan Yan

List of Publications by Year in descending order

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55
papers

2,095
citations

172457

29
h-index

233421

45
g-index

55
all docs

55
docs citations

55
times ranked

2288
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly fluorescent N-doped carbon dots with two-photon emission for ultrasensitive detection of tumor marker and visual monitor anticancer drug loading and delivery. <i>Chemical Engineering Journal</i> , 2019, 356, 994-1002.	12.7	162
2	Advances in synthesis and application of near-infrared absorbing squaraine dyes. <i>RSC Advances</i> , 2013, 3, 7667.	3.6	121
3	Progress in the preparation and application of three-dimensional graphene-based porous nanocomposites. <i>Nanoscale</i> , 2015, 7, 5563-5577.	5.6	121
4	Advances for the colorimetric detection of Hg ²⁺ in aqueous solution. <i>RSC Advances</i> , 2014, 4, 48373-48388.	3.6	102
5	Synergistically Enhanced Electrochemical Performance of Ni-rich Cathode Materials for Lithium-ion Batteries by K and Ti Co-modification. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2346-2356.	3.1	96
6	3D graphene-Fe ₃ O ₄ -polyaniline, a novel ternary composite for supercapacitor electrodes with improved electrochemical properties. <i>Materials Today Energy</i> , 2017, 5, 164-172.	4.7	82
7	A Convenient Organic-Inorganic Hybrid Approach Toward Highly Stable Squaraine Dyes with Reduced H ₂ O ₂ Aggregation. <i>Advanced Functional Materials</i> , 2012, 22, 345-352.	14.9	73
8	Identification of Multifunctional Graphene-Gold Nanocomposite for Environment-Friendly Enriching, Separating, and Detecting Hg ²⁺ Simultaneously. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22761-22768.	8.0	68
9	Sensing materials developed and applied for bio-active Fe ³⁺ recognition in water environment. <i>Analytical Methods</i> , 2016, 8, 5738-5754.	2.7	68
10	Recent developments of nanoenzyme-based colorimetric sensors for heavy metal detection and the interaction mechanism. <i>Analyst</i> , 2020, 145, 3173-3187.	3.5	67
11	An effective real-time colorimetric sensor for sensitive and selective detection of cysteine under physiological conditions. <i>Analyst</i> , 2011, 136, 1916.	3.5	63
12	Near-Infrared Absorbing Squaraine Dyes for Solar Cells: Relationship between Architecture and Performance. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8894-8900.	3.1	57
13	A modified fluorescein derivative with improved water-solubility for turn-on fluorescent determination of Hg ²⁺ in aqueous and living cells. <i>Talanta</i> , 2017, 170, 89-96.	5.5	53
14	A novel turn-on fluorescent probe for the multi-channel detection of Zn ²⁺ and Bi ³⁺ with different action mechanisms. <i>Analyst</i> , 2018, 143, 449-457.	3.5	49
15	Chitosan-gold nanocomposite and its functionalized paper strips for reversible visual sensing and removal of trace Hg ²⁺ in practice. <i>Analyst</i> , 2019, 144, 474-480.	3.5	47
16	A multidentate ligand chromophore with rhodamine-triazole-pyridine units and its acting mechanism for dual-mode visual sensing trace Sn ²⁺ . <i>Dyes and Pigments</i> , 2018, 159, 542-550.	3.7	44
17	2D Co ₃ O ₄ stabilizing Rh nano composites developed for visual sensing bioactive urea and toxic p-aminophenol in practice by synergetic-reinforcing oxidase activity. <i>Journal of Hazardous Materials</i> , 2021, 409, 125019.	12.4	43
18	Colorimetric detection of trace Hg ²⁺ with near-infrared absorbing squaraine functionalized by dibenzo-18-crown-6 and its mechanism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 87-91.	3.9	40

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19	Ni-Rich Oxide $\text{LiNi}_{0.85}\text{Co}_{0.05}\text{Mn}_{0.1}\text{O}_2$ for Lithium Ion Battery: Effect of Microwave Radiation on Its Morphology and Electrochemical Property. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1300-A1309.	2.9	37
20	A novel polydentate ligand chromophore for simultaneously colorimetric detection of trace Ag^+ and Fe^{3+} . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 186, 17-22.	3.9	34
21	Chitosan-Stabilized Gold Nano Composite Modified Glassy Carbon Electrode for Electrochemical Sensing Trace Hg^{2+} in Practice. <i>Journal of the Electrochemical Society</i> , 2018, 165, B900-B905.	2.9	34
22	Quinoline-based azo derivative assembly: Optical limiting property and enhancement mechanism. <i>Dyes and Pigments</i> , 2013, 99, 720-726.	3.7	33
23	Molecular design for novel sensing materials with self-screening interference effect (SSIE): Reversible recognizing Cu^{2+} in aqueous and biologic samples. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 163-172.	7.8	33
24	Hg^{2+} -activated oxidase-like activity of $\text{Ag}_2\text{S}@$ graphene oxide nanozyme and its naked-eye monitoring Hg^{2+} application with obvious hyperchromic effect. <i>Applied Surface Science</i> , 2021, 545, 148973.	6.1	33
25	Preparation of 4,4'-bis-(carboxyl phenylazo)-dibenzo-18-crown-6 dye and its application on ratiometric colorimetric recognition to Hg^{2+} . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 661-665.	3.9	32
26	One-pot preparation of graphene- Ag nano composite for selective and environmentally-friendly recognition of trace mercury(II). <i>RSC Advances</i> , 2016, 6, 109857-109861.	3.6	32
27	Modified hydrazone derivatives for ratiometric and colorimetric F^{\sim} recognition: Relationship between architectures and performances. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 314-320.	7.8	32
28	Supramolecular self-assembly structures and properties of zwitterionic squaraine molecules. <i>RSC Advances</i> , 2013, 3, 8021.	3.6	31
29	A novel luminol derivative and its functionalized filter-paper for reversible double-wavelength colorimetric pH detection in fruit juice. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 869-875.	7.8	31
30	A multiple fluorescein-based turn-on fluorophore (FHCS) identified for simultaneous determination and living imaging of toxic Al^{3+} and Zn^{2+} by improved Stokes shift. <i>Analytica Chimica Acta</i> , 2020, 1095, 185-196.	5.4	30
31	Spectral properties of 4-(4-hydroxy-1-naphthylazo)benzenesulfonic acid and its application for colorimetric determination of trace Fe^{3+} . <i>RSC Advances</i> , 2014, 4, 19370-19374.	3.6	29
32	One-Pot Methylenation-Cyclization Employing Two Molecules of CO_2 with Arylamines and Enaminones. <i>Journal of Organic Chemistry</i> , 2020, 85, 912-923.	3.2	27
33	Efficient Polymer Pendant Approach toward High Stable Organic Fluorophore for Sensing Ultratrace Hg^{2+} with Improved Biological Compatibility and Cell Permeability. <i>Analytical Chemistry</i> , 2020, 92, 3293-3301.	6.5	27
34	UV-vis spectral property of a multi-hydroxyl Schiff-base derivative and its colorimetric response to some special metal ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 203, 455-460.	3.9	26
35	Synergistically improved electrochemical performance and its practical application of graphene oxide stabilized nano Ag_2S by one-pot homogeneous precipitation. <i>Applied Surface Science</i> , 2020, 501, 144208.	6.1	26
36	A novel polydentate Schiff-base derivative developed for multi-wavelength colorimetric differentiation of trace Fe^{2+} from Fe^{3+} . <i>Analytical Methods</i> , 2017, 9, 6240-6245.	2.7	24

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37	A D-β-A-D organic conjugated molecule with multiple chelating points: Spectral property and its reversible visual sensing Cu ²⁺ . <i>Dyes and Pigments</i> , 2019, 165, 217-222.	3.7	23
38	Microwave-Assisted Synthesis of Co ₃ O ₄ Sheets for Reversible Li Storage: Regulation of Structure and Performance. <i>ChemElectroChem</i> , 2017, 4, 1236-1242.	3.4	19
39	Porous Ag-Chitosan Nanospheres Bridged by Cysteine Residues for Colorimetric Sensing of Trace Hg ²⁺ . <i>ACS Applied Nano Materials</i> , 2021, 4, 3639-3646.	5.0	18
40	Ag-β-Cyclodextrin-Graphene Oxide Ternary Nanostructures with Peroxidase-Mimicking Activity for Hg ²⁺ Detection. <i>ACS Applied Nano Materials</i> , 2021, 4, 13807-13817.	5.0	16
41	Identification of a rigid and planar D-β-A conjugated system for colorimetric Fe(II) determination and its action mechanism. <i>Optical Materials</i> , 2017, 73, 393-399.	3.6	14
42	Porous SnO ₂ microsphere and its carbon nanotube hybrids: Controllable preparation, structures and electrochemical performances as anode materials. <i>Electrochimica Acta</i> , 2021, 388, 138582.	5.2	14
43	Influence of electrolyte additives on a cobalt oxide-based anode's electrochemical performance and its action mechanism. <i>RSC Advances</i> , 2015, 5, 19145-19151.	3.6	13
44	One-dimensional nitrogen doped porous carbon nano-array arranged by carbon nanotubes for electrochemical sensing ascorbic acid, dopamine and uric acid simultaneously. <i>Nanotechnology</i> , 2021, 32, 255601.	2.6	11
45	Ag nanozyme strengthened by folic acid: Superior peroxidase-mimicking activity and application for visual monitoring of dopamine. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6611-6620.	3.7	11
46	β-Cyclodextrin and graphene oxide co-strengthened AgRu bimetal mesoporous nanozyme: An efficient strategy for visual detection and removal of toxic Hg ²⁺ and Cl ⁻ . <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108242.	6.7	11
47	A high-performance visual monitoring of trace toxic NO ₂ ⁻ and S ₂ ⁻ in 100% aqueous based on the superior oxidase-mimic activity of nano CeO ₂ strengthened by 2D Co ₃ O ₄ substrate. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130887.	7.8	10
48	β-Conjugated molecules identified for reversible and visual detection of F ⁻ in aqueous: Effect of heterocycle unit on sensing performance. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117451.	3.9	8
49	Molecular spectra of a D-β-A typed polydentate ligand chromophore and its simultaneous response to trace Cu ²⁺ and Co ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117130.	3.9	6
50	A β-Conjugated Chromophore Dye and Its Functional Paper Strips for Visually On-Site Sensing F ⁻ and Its Reaction Mechanism. <i>ChemistrySelect</i> , 2019, 4, 4118-4124.	1.5	4
51	A Dual-Mode Colorimetric/Fluorescent Sensor Comprising Rhodamine B and Piperazine: Response to Acidic pH Values and Investigation of Recognition Mechanism. <i>ChemistrySelect</i> , 2020, 5, 3138-3143.	1.5	3
52	A neoteric dual-channel spectral sensor for wide-range pH detection based on variables in UV-vis peak and intensity. <i>Analytical Methods</i> , 2021, 13, 5224-5230.	2.7	3
53	NiS Nanospheres Anchored onto a Graphene Oxide Substrate (NiS@GO) for Efficient Electrochemical Sensing of Trace Amounts of Silver Ions. <i>ChemistrySelect</i> , 2022, 7, .	1.5	3
54	Chloramphenicol-activated electro-chemiluminescent behavior of BNQDs-Ru(phen) ₃ ²⁺ system for ultra-sensitive sensing of chloramphenicol in pharmaceutical and milk samples. <i>Nanotechnology</i> , 2022, , .	2.6	1

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55	Chloramphenicol-activated electro-chemiluminescent behavior of BNQDs-Ru(phen) ₃ ²⁺ system for ultra-sensitive sensing of chloramphenicol in pharmaceutical and milk samples. Nanotechnology, 2022, , .	2.6	0