Zhengquan Yan

List of Publications by Year
in descending order

55	2,095	172457	233421
papers	citations	29 h-index	45 g-index

55	55	55	2288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A high-performance visual monitoring of trace toxic NO2â˜ and S2â˜ in 100% aqueous based on the superior oxidase-mimic activity of nano CeO2 strengthened by 2D Co3O4 substrate. Sensors and Actuators B: Chemical, 2022, 351, 130887.	7.8	10
2	Chloramphenicol-activated electro-chemiluminescent behavior of BNQDs-Ru(phen)32+ system for ultra-sensitive sensing of chloramphenicol in pharmaceutical and milk samples. Nanotechnology, 2022, , .	2.6	0
3	Chloramphenicol-activated electro-chemiluminescent behavior of BNQDs-Ru(phen)32+ system for ultra-sensitive sensing of chloramphenicol in pharmaceutical and milk samples. Nanotechnology, 2022, , .	2.6	1
4	NiS Nanospheres Anchored onto a Graphene Oxide Substrate (NiS@GO) for Efficient Electrochemical Sensing of Trace Amounts of Silver Ions. ChemistrySelect, 2022, 7, .	1.5	3
5	Ag nanozyme strengthened by folic acid: Superior peroxidase-mimicking activity and application for visual monitoring of dopamine. Analytical and Bioanalytical Chemistry, 2022, 414, 6611-6620.	3.7	11
6	Î²-Cyclodextrin and graphene oxide co-strengthened AgRu bimetal mesoporous nanozyme: An efficient strategy for visual detection and removal of toxic Hg2+ and Clâ˜. Journal of Environmental Chemical Engineering, 2022, 10, 108242.	6.7	11
7	One-dimensional nitrogen doped porous carbon nano-array arranged by carbon nanotubes for electrochemical sensing ascorbic acid, dopamine and uric acid simultaneously. Nanotechnology, 2021, 32, 255601.	2.6	11
8	Hg2+-activated oxidase-like activity of Ag2S@graphene oxide nanozyme and its naked-eye monitoring Hg2+ application with obvious hyperchromic effect. Applied Surface Science, 2021, 545, 148973.	6.1	33
9	Porous Ag-Chitosan Nanospheres Bridged by Cysteine Residues for Colorimetric Sensing of Trace Hg²⁺. ACS Applied Nano Materials, 2021, 4, 3639-3646.	5.0	18
10	2D Co3O4 stabilizing Rh nano composites developed for visual sensing bioactive urea and toxic p-aminophenol in practice by synergetic-reinforcing oxidase activity. Journal of Hazardous Materials, 2021, 409, 125019.	12.4	43
11	Porous SnO2 microsphere and its carbon nanotube hybrids: Controllable preparation, structures and electrochemical performances as anode materials. Electrochimica Acta, 2021, 388, 138582.	5.2	14
12	A neoteric dual-channel spectral sensor for wide-range pH detection based on variables in UVâ€“vis peak and intensity. Analytical Methods, 2021, 13, 5224-5230.	2.7	3
13	Ag-Î²-Cyclodextrin-Graphene Oxide Ternary Nanostructures with Peroxidase-Mimicking Activity for Hg²⁺ Detection. ACS Applied Nano Materials, 2021, 4, 13807-13817.	5.0	16
14	A multiple fluorescein-based turn-on fluorophore (FHCS) identified for simultaneous determination and living imaging of toxic Al3+ and Zn2+ by improved Stokes shift. Analytica Chimica Acta, 2020, 1095, 185-196.	5.4	30
15	Ï€-Conjugated molecules identified for reversible and visual detection of Fâ˜ in aqueous: Effect of heterocycle unit on sensing performance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117451.	3.9	8
16	Synergistically improved electrochemical performance and its practical application of graphene oxide stabilized nano Ag2S by one-pot homogeneous precipitation. Applied Surface Science, 2020, 501, 144208.	6.1	26
17	Synergistically Enhanced Electrochemical Performance of Ni-rich Cathode Materials for Lithium-ion Batteries by K and Ti Co-modification. Journal of Physical Chemistry C, 2020, 124, 2346-2356.	3.1	96
18	One-Pot Methylenationâ€“Cyclization Employing Two Molecules of CO2 with Arylamines and Enaminones. Journal of Organic Chemistry, 2020, 85, 912-923.	3.2	27

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19	A Dualâ€Mode Colorimetric/Fluorescent Sensor Comprising Rhodamine B and Piperazine: Response to Acidic pH Values and Investigation of Recognition Mechanism. ChemistrySelect, 2020, 5, 3138-3143.	1.5	3
20	Recent developments of nanoenzyme-based colorimetric sensors for heavy metal detection and the interaction mechanism. Analyst, The, 2020, 145, 3173-3187.	3.5	67
21	Efficient Polymer Pendant Approach toward High Stable Organic Fluorophore for Sensing Ultratrace Hg²⁺ with Improved Biological Compatibility and Cell Permeability. Analytical Chemistry, 2020, 92, 3293-3301.	6.5	27
22	Molecular design for novel sensing materials with self-screening interference effect (SSIE): Reversible recognizing Cu2+ in aqueous and biologic samples. Sensors and Actuators B: Chemical, 2019, 286, 163-172.	7.8	33
23	Chitosanâ€“gold nanocomposite and its functionalized paper strips for reversible visual sensing and removal of trace Hg²⁺ in practice. Analyst, The, 2019, 144, 474-480.	3.5	47
24	Molecular spectra of a D-Ï€-A typed polydentate ligand chromophore and its simultaneous response to trace Cu2+ and Co2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117130.	3.9	6
25	Ni-Rich Oxide LiNi_{0.85}Co_{0.05}Mn_{0.1}O₂ for Lithium Ion Battery: Effect of Microwave Radiation on Its Morphology and Electrochemical Property. Journal of the Electrochemical Society, 2019, 166, A1300-A1309.	2.9	37
26	A Ï€â€Conjugated Chromophore Dye and Its Functional Paper Strips for Visually Onâ€Site Sensing F â¯ and Its Reaction Mechanism. ChemistrySelect, 2019, 4, 4118-4124.	1.5	4
27	A D-Ï€-A-Ï€-D organic conjugated molecule with multiple chelating points: Spectral property and its reversible visual sensing Cu2+. Dyes and Pigments, 2019, 165, 217-222.	3.7	23
28	Highly fluorescent N-doped carbon dots with two-photon emission for ultrasensitive detection of tumor marker and visual monitor anticancer drug loading and delivery. Chemical Engineering Journal, 2019, 356, 994-1002.	12.7	162
29	A novel luminol derivative and its functionalized filter-paper for reversible double-wavelength colorimetric pH detection in fruit juice. Sensors and Actuators B: Chemical, 2018, 262, 869-875.	7.8	31
30	A novel turn-on fluorescent probe for the multi-channel detection of Zn²⁺ and Bi³⁺ with different action mechanisms. Analyst, The, 2018, 143, 449-457.	3.5	49
31	Chitosan-Stabilized Gold Nano Composite Modified Glassy Carbon Electrode for Electrochemical Sensing Trace Hg²⁺ in Practice. Journal of the Electrochemical Society, 2018, 165, B900-B905.	2.9	34
32	A multidentate ligand chromophore with rhodamine-triazole-pyridine units and its acting mechanism for dual-mode visual sensing trace Sn2+. Dyes and Pigments, 2018, 159, 542-550.	3.7	44
33	UVâ€“vis spectral property of a multi-hydroxyl Schiff-base derivative and its colorimetric response to some special metal ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 203, 455-460.	3.9	26
34	Modified hydrazone derivatives for ratiometric and colorimetric Fâ¯ recognition: Relationship between architectures and performances. Sensors and Actuators B: Chemical, 2017, 245, 314-320.	7.8	32
35	Microwaveâ€Assisted Synthesis of Co₃O₄ Sheets for Reversible Li Storage: Regulation of Structure and Performance. ChemElectroChem, 2017, 4, 1236-1242.	3.4	19
36	A novel polydentate ligand chromophore for simultaneously colorimetric detection of trace Ag + and Fe3 +. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 186, 17-22.	3.9	34

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37	A modified fluorescein derivative with improved water-solubility for turn-on fluorescent determination of Hg 2+ in aqueous and living cells. Talanta, 2017, 170, 89-96.	5.5	53
38	A novel polydentate Schiff-base derivative developed for multi-wavelength colorimetric differentiation of trace Fe²⁺ from Fe³⁺. Analytical Methods, 2017, 9, 6240-6245.	2.7	24
39	Identification of a rigid and planar D-Ï€-A conjugated system for colorimetric Fe(II) determination and its action mechanism. Optical Materials, 2017, 73, 393-399.	3.6	14
40	3D graphene-Fe 3 O 4 -polyaniline, a novel ternary composite for supercapacitor electrodes with improved electrochemical properties. Materials Today Energy, 2017, 5, 164-172.	4.7	82
41	One-pot preparation of grapheneâ€“Ag nano composite for selective and environmentally-friendly recognition of trace mercury(ii). RSC Advances, 2016, 6, 109857-109861.	3.6	32
42	Sensing materials developed and applied for bio-active Fe³⁺ recognition in water environment. Analytical Methods, 2016, 8, 5738-5754.	2.7	68
43	Influence of electrolyte additives on a cobalt oxide-based anode's electrochemical performance and its action mechanism. RSC Advances, 2015, 5, 19145-19151.	3.6	13
44	Progress in the preparation and application of three-dimensional graphene-based porous nanocomposites. Nanoscale, 2015, 7, 5563-5577.	5.6	121
45	Identification of Multifunctional Grapheneâ€“Gold Nanocomposite for Environment-Friendly Enriching, Separating, and Detecting Hg²⁺ Simultaneously. ACS Applied Materials & Interfaces, 2014, 6, 22761-22768.	8.0	68
46	Spectral properties of 4-(4-hydroxy-1-naphthylazo)benzenesulfonic acid and its application for colorimetric determination of trace Fe³⁺. RSC Advances, 2014, 4, 19370-19374.	3.6	29
47	Advances for the colorimetric detection of Hg²⁺in aqueous solution. RSC Advances, 2014, 4, 48373-48388.	3.6	102
48	Quinoline-based azo derivative assembly: Optical limiting property and enhancement mechanism. Dyes and Pigments, 2013, 99, 720-726.	3.7	33
49	Colorimetric detection of trace Hg2+ with near-infrared absorbing squaraine functionalized by dibenzo-18-crown-6 and its mechanism. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 104, 87-91.	3.9	40
50	Advances in synthesis and application of near-infrared absorbing squaraine dyes. RSC Advances, 2013, 3, 7667.	3.6	121
51	Supramolecular self-assembly structures and properties of zwitterionic squaraine molecules. RSC Advances, 2013, 3, 8021.	3.6	31
52	Near-Infrared Absorbing Squaraine Dyes for Solar Cells: Relationship between Architecture and Performance. Journal of Physical Chemistry C, 2012, 116, 8894-8900.	3.1	57
53	A Convenient Organicâ€“Inorganic Hybrid Approach Toward Highly Stable Squaraine Dyes with Reduced Hâ€Aggregation. Advanced Functional Materials, 2012, 22, 345-352.	14.9	73
54	An effective real-time colorimeteric sensor for sensitive and selective detection of cysteine under physiological conditions. Analyst, The, 2011, 136, 1916.	3.5	63

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55	Preparation of 4,4â€²-bis-(carboxyl phenylazo)-dibenzo-18-crown-6 dye and its application on ratiometric colorimetric recognition to Hg2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 661-665.	3.9	32