

Dazhong Shen

List of Publications by Year in descending order

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76
papers

2,218
citations

257101

24
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243296

44
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all docs

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docs citations

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times ranked

2743
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption kinetics and isotherm of anionic dyes onto organo-bentonite from single and multisolute systems. <i>Journal of Hazardous Materials</i> , 2009, 172, 99-107.	6.5	213
2	A molecular imprinting-based turn-on Ratiometric fluorescence sensor for highly selective and sensitive detection of 2,4-dichlorophenoxyacetic acid (2,4-D). <i>Biosensors and Bioelectronics</i> , 2016, 81, 438-444.	5.3	153
3	Quantum Dots Based Mesoporous Structured Imprinting Microspheres for the Sensitive Fluorescent Detection of Phycocyanin. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9118-9127.	4.0	128
4	One-pot synthesis of a quantum dot-based molecular imprinting nanosensor for highly selective and sensitive fluorescence detection of 4-nitrophenol in environmental waters. <i>Environmental Science: Nano</i> , 2017, 4, 493-502.	2.2	121
5	A simple and sensitive colorimetric method for detection of mercury ions based on anti-aggregation of gold nanoparticles. <i>Analytical Methods</i> , 2012, 4, 488.	1.3	85
6	Near-Infrared Electrochemiluminescence Immunoassay with Biocompatible Au Nanoclusters as Tags. <i>Analytical Chemistry</i> , 2020, 92, 7581-7587.	3.2	82
7	Molecular imprinting ratiometric fluorescence sensor for highly selective and sensitive detection of phycocyanin. <i>Biosensors and Bioelectronics</i> , 2016, 77, 624-630.	5.3	80
8	Electrochemical-Signal-Amplification Strategy for an Electrochemiluminescence Immunoassay with g-C ₃ N ₄ as Tags. <i>Analytical Chemistry</i> , 2018, 90, 12930-12936.	3.2	75
9	One-pot synthesis of magnetic molecularly imprinted microspheres by RAFT precipitation polymerization for the fast and selective removal of 17 β -estradiol. <i>RSC Advances</i> , 2015, 5, 10611-10618.	1.7	71
10	Novel monodisperse molecularly imprinted shell for estradiol based on surface imprinted hollow vinyl-SiO ₂ particles. <i>Talanta</i> , 2014, 124, 7-13.	2.9	63
11	Quantum dots based imprinting fluorescent nanosensor for the selective and sensitive detection of phycocyanin: A general imprinting strategy toward proteins. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 268-274.	4.0	58
12	Sensitive detection of ascorbic acid and alkaline phosphatase activity by double-channel photoelectrochemical detection design based on g-C ₃ N ₄ /TiO ₂ nanotubes hybrid film. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 231-241.	4.0	49
13	An electrochemical sensor based on Co ₃ O ₄ nanosheets for lead ions determination. <i>RSC Advances</i> , 2017, 7, 39611-39616.	1.7	44
14	Mucin corona delays intracellular trafficking and alleviates cytotoxicity of nanoplastic-benzopyrene combined contaminant. <i>Journal of Hazardous Materials</i> , 2021, 406, 124306.	6.5	41
15	Self-assembly of nanoparticles by human serum albumin and photosensitizer for targeted near-infrared emission fluorescence imaging and effective phototherapy of cancer. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1149-1159.	2.9	40
16	Ultrasensitive Electrochemiluminescent Sensor for MicroRNA with Multinary Zn@Ag@InS/ZnS Nanocrystals as Tags. <i>Analytical Chemistry</i> , 2019, 91, 3754-3758.	3.2	39
17	Hybrid Three Dimensionally Printed Paper-Based Microfluidic Platform for Investigating a Cell's Apoptosis and Intracellular Cross-Talk. <i>ACS Sensors</i> , 2020, 5, 464-473.	4.0	39
18	Imaging of anti-inflammatory effects of HNO ₂ via a near-infrared fluorescent probe in cells and in rat gouty arthritis model. <i>Journal of Materials Chemistry B</i> , 2019, 7, 305-313.	2.9	36

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19	Hydrogen Peroxide Involved Anodic Charge Transfer and Electrochemiluminescence of All-Inorganic Halide Perovskite CsPbBr ₃ Nanocrystals in an Aqueous Medium. <i>Inorganic Chemistry</i> , 2017, 56, 10135-10138.	1.9	34
20	In-situ synthesis of reduced graphene oxide/gold nanoparticles modified electrode for speciation analysis of copper in seawater. <i>Talanta</i> , 2017, 174, 500-506.	2.9	33
21	A ratiometric electrochemical sensor for multiplex detection of cancer biomarkers using bismuth as an internal reference and metal sulfide nanoparticles as signal tags. <i>Analyst</i> , The, 2019, 144, 4073-4080.	1.7	32
22	Bovine serum albumin-stabilized silver nanoclusters with anodic electrochemiluminescence peak at 904Ånm in aqueous medium and applications in spectrum-resolved multiplexing immunoassay. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112934.	5.3	32
23	Duplex voltammetric immunoassay for the cancer biomarkers carcinoembryonic antigen and alpha-fetoprotein by using metal-organic framework probes and a glassy carbon electrode modified with thiolated polyaniline nanofibers. <i>Mikrochimica Acta</i> , 2017, 184, 4037-4045.	2.5	28
24	A carbon dot-based fluorescent nanoprobe for the associated detection of iron ions and the determination of the fluctuation of ascorbic acid induced by hypoxia in cells and <i>in vivo</i> . <i>Analyst</i> , The, 2019, 144, 6609-6616.	1.7	28
25	Detection of hypochlorous acid fluctuation <i>via</i> a selective near-infrared fluorescent probe in living cells and <i>in vivo</i> under hypoxic stress. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2557-2564.	2.9	27
26	Functional ZnS:Mn(II) quantum dot modified with L-cysteine and 6-mercaptopuronic acid as a fluorometric probe for copper(II). <i>Mikrochimica Acta</i> , 2018, 185, 420.	2.5	24
27	A ratiometric photoelectrochemical immunosensor based on g-C ₃ N ₄ @TiO ₂ NTs amplified by signal antibodies-Co ₃ O ₄ nanoparticle conjugates. <i>Analyst</i> , The, 2018, 143, 5030-5037.	1.7	22
28	Sensitive and selective determining ascorbic acid and activity of alkaline phosphatase based on electrochemiluminescence of dual-stabilizers-capped CdSe quantum dots in carbon nanotube-nafion composite. <i>Talanta</i> , 2016, 154, 175-182.	2.9	21
29	Label-Free and Template-Free Chemiluminescent Biosensor for Sensitive Detection of 5-Hydroxymethylcytosine in Genomic DNA. <i>Analytical Chemistry</i> , 2021, 93, 1939-1943.	3.2	20
30	Enhancing electrochemiluminescence of FAPbBr ₃ nanocrystals by using carbon nanotubes and TiO ₂ nanoparticles as conductivity and co-reaction accelerator for dopamine determination. <i>Electrochimica Acta</i> , 2020, 360, 136992.	2.6	19
31	A smartphone-based ratiometric fluorescent device for field analysis of soluble copper in river water using carbon quantum dots as luminophore. <i>Talanta</i> , 2019, 194, 452-460.	2.9	18
32	Application of a low impedance contactless conductometric detector for the determination of inorganic cations in capillary monolithic column chromatography. <i>Talanta</i> , 2011, 84, 42-48.	2.9	17
33	An electrode-separated piezoelectric immunosensor array with signal enhancement based on enzyme catalytic deposition of palladium nanoparticles and electroless deposition nickel-phosphorus. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 551-559.	4.0	17
34	A smartphone-based double-channel fluorescence setup for immunoassay of a carcinoembryonic antigen using CuS nanoparticles for signal amplification. <i>Analyst</i> , The, 2018, 143, 1670-1678.	1.7	17
35	Voltammetric determination of copper in seawater at a glassy carbon disk electrode modified with Au@MnO ₂ core-shell microspheres. <i>Mikrochimica Acta</i> , 2018, 185, 258.	2.5	17
36	A smartphone-based ratiometric resonance light scattering device for field analysis of Pb ²⁺ in river water samples and immunoassay of alpha fetoprotein using PbS nanoparticles as signal tag. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 358-366.	4.0	17

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37	Enhancing anti-interference ability of molecularly imprinted ratiometric fluorescence sensor via differential strategy demonstrated by the detection of bovine hemoglobin. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128581.	4.0	17
38	Enhancement anti-interference ability of photoelectrochemical sensor via differential molecularly imprinting technique demonstrated by dopamine determination. <i>Analytica Chimica Acta</i> , 2020, 1125, 201-209.	2.6	17
39	Determination of water-soluble ions in PM2.5 using capillary electrophoresis with resonant contactless conductometric detectors in a differential model. <i>Analytical Methods</i> , 2013, 5, 6839.	1.3	16
40	Determination of amino acids by capillary electrophoresis with differential resonant contactless conductivity detector. <i>Talanta</i> , 2013, 104, 39-43.	2.9	16
41	Highly luminescent and multi-sensing aggregates co-assembled from Eu-containing polyoxometalate and an enzyme-responsive surfactant in water. <i>Soft Matter</i> , 2019, 15, 399-407.	1.2	16
42	A high sensitive single luminophore ratiometric electrochemiluminescence immunosensor in combined with anodic stripping voltammetry. <i>Electrochimica Acta</i> , 2020, 336, 135725.	2.6	16
43	Field analysis free chlorine in water samples by a smartphone-based colorimetric device with improved sensitivity and accuracy. <i>Microchemical Journal</i> , 2019, 150, 104200.	2.3	15
44	Smartphone-based three-channel ratiometric fluorescent device and application in filed analysis of Hg ²⁺ , Fe ³⁺ and Cu ²⁺ in water samples. <i>Microchemical Journal</i> , 2020, 152, 104423.	2.3	15
45	Enhancing aqueous stability and radiative-charge-transfer efficiency of CsPbBr ₃ perovskite nanocrystals via conductive silica gel coating. <i>Electrochimica Acta</i> , 2020, 330, 135332.	2.6	15
46	A ratiometric electrochemiluminescence method using a single luminophore of porous g-C ₃ N ₄ for the ultrasensitive determination of alpha fetoprotein. <i>Analyst</i> , 2020, 145, 2389-2397.	1.7	15
47	Revisiting the cellular toxicity of benzo[<i>a</i>]pyrene from the view of nanoclusters: size- and nanoplastic adsorption-dependent bioavailability. <i>Nanoscale</i> , 2021, 13, 1016-1028.	2.8	15
48	Investigation on kinetic processes of zeolitic imidazolate framework-8 film growth and adsorption of chlorohydro-carbons using a quartz crystal microbalance. <i>Analytical Methods</i> , 2015, 7, 9619-9628.	1.3	13
49	Enhanced full color tunable luminescent lyotropic liquid crystals from P123 and ionic liquid by doping lanthanide complexes and AIEgen. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 122-129.	5.0	13
50	Response of an electrodeless quartz crystal microbalance in gaseous phase and monitoring adsorption of iodine vapor on zeolitic-imidazolate framework-8 film. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 472-480.	4.0	12
51	Impedance response of photoelectrochemical sensor and size-exclusion filter and catalytic effects in Mn ₃ (BTC) ₂ /g-C ₃ N ₄ /TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2017, 247, 80-88.	2.6	12
52	A simple and sensitive approach to monitor the spectrum change during the electrochemiluminescence process and reveal the mutual promotion between g-C ₃ N ₄ and co-reactant of S ₂ O ₈ ²⁻ . <i>Sensors and Actuators B: Chemical</i> , 2022, 360, 131679.	4.0	12
53	Near-Infrared Light-Responsive SERS Tags Enable Positioning and Monitoring of the Drug Release of Photothermal Nanomedicines In Vivo. <i>Analytical Chemistry</i> , 2021, 93, 16590-16597.	3.2	11
54	A differential photoelectrochemical method for glucose determination based on alkali-soaked zeolite imidazole framework-67 as both glucose oxidase and peroxidase mimics. <i>Mikrochimica Acta</i> , 2020, 187, 244.	2.5	10

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55	Sensitive, Signal-Modulation Strategy for Discrimination of ECL Spectra and Investigation of Mutual Interactions of Emitters. <i>Analytical Chemistry</i> , 2022, 94, 3637-3644.	3.2	10
56	New cut angle quartz crystal microbalance with low frequencyâ€™temperature coefficients in an aqueous phase. <i>Talanta</i> , 2008, 76, 803-808.	2.9	9
57	A liquid density sensor based on longitudinal wave effect of a piezoelectric quartz crystal in liquid phase. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 566-572.	4.0	9
58	Monitoring of reaction kinetics and determination of trace water in hydrophobic organic solvents by a smartphone-based ratiometric fluorescence device. <i>Mikrochimica Acta</i> , 2020, 187, 564.	2.5	9
59	Impedance analysis of an electrode-separated piezoelectric sensor as a surface-monitoring technique for gelatin adsorption on quartz surface. <i>Journal of Colloid and Interface Science</i> , 2005, 281, 398-409.	5.0	8
60	Flexible and enhanced multicolor-emitting films co-assembled by lanthanide complexes and a polymerizable surfactant in aqueous solution. <i>Soft Matter</i> , 2018, 14, 9143-9152.	1.2	8
61	On site determination of free chlorine in water samples by a smartphone-based colorimetric device with improved sensitivity and reliability. <i>New Journal of Chemistry</i> , 2019, 43, 14409-14416.	1.4	8
62	Three dimensionally printed nitrocellulose-based microfluidic platform for investigating the effect of oxygen gradient on cells. <i>Analyst, The</i> , 2021, 146, 5255-5263.	1.7	8
63	Unfound Associated Resonant Model and Its Impact on Response of a Quartz Crystal Microbalance in the Liquid Phase. <i>Analytical Chemistry</i> , 2018, 90, 2796-2804.	3.2	7
64	Field analysis of Cr(<i>VI</i>) in water samples by using a smartphone-based ultralong absorption path reflection colorimetric device. <i>New Journal of Chemistry</i> , 2021, 45, 2529-2535.	1.4	7
65	A differential photoelectrochemical hydrogen peroxide sensor based on catalytic activity difference between two zeolitic imidazolate framework surface coatings. <i>Talanta</i> , 2019, 197, 138-144.	2.9	6
66	A differential strategy to enhance the anti-interference ability of electrochemical molecularly imprinted polymers sensors for the determination of sulfamerazine and 4-acetamidophenol. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131977.	4.0	6
67	A smartphone-based absorbance device extended to ultraviolet (365Ånm) and near infrared (780Ånm) regions using ratiometric fluorescence measurement. <i>Microchemical Journal</i> , 2021, 164, 105978.	2.3	5
68	A simple and sensitive electrochemiluminescence spectrum measurement platform and spectrum-resolved ratiometric sensor for miRNA-141 determination. <i>Electrochimica Acta</i> , 2022, 422, 140544.	2.6	5
69	Tunable electrochemiluminescence properties of CsPbBr ₃ perovskite nanocrystals using mixed-monovalent cations. <i>New Journal of Chemistry</i> , 2020, 44, 3323-3329.	1.4	4
70	Characterization of the Binding Interaction between Poly(Epichlorohydrinâ€Diamine) and Reactive Dyes using a Multiple Linear Regression and Quartz Crystal Microbalance Methods. <i>Separation Science and Technology</i> , 2007, 42, 3759-3776.	1.3	3
71	Different experimental results for the influence of immersion angle on the resonant frequency of a quartz crystal microbalance in a liquid phase: With a comment. <i>Analytica Chimica Acta</i> , 2007, 593, 188-195.	2.6	3
72	A facile synthesis of perforated reduced graphene oxide for high performance electrochemical sensors. <i>Analyst, The</i> , 2019, 144, 412-415.	1.7	3

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73	Effect of inorganic positive ions on the adsorption of surfactant Triton X-100 at quartz/solution interface. <i>Science in China Series B: Chemistry</i> , 2008, 51, 918-927.	0.8	2
74	The influence of isolated and penta-hydrated Zn ²⁺ on some of the intramolecular proton-transfer processes of thymine: a quantum chemical study. <i>RSC Advances</i> , 2018, 8, 11021-11026.	1.7	1
75	Do the fragments from decomposed ZIF-8 greatly affect some of the intramolecular proton-transfer of thymine? A quantum chemical study. <i>RSC Advances</i> , 2018, 8, 27227-27234.	1.7	1
76	Computational characterization of halogen vapor attachment, diffusion and desorption processes in zeolitic imidazolate framework-8. <i>Scientific Reports</i> , 2020, 10, 3010.	1.6	0