Guizheng Zou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3973490/publications.pdf

Version: 2024-02-01

79 papers	3,445 citations	136950 32 h-index	149698 56 g-index
81 all docs	81 docs citations	81 times ranked	2476 citing authors

#	Article	IF	Citations
1	Electrogenerated Chemiluminescence from a CdSe Nanocrystal Film and Its Sensing Application in Aqueous Solution. Analytical Chemistry, 2004, 76, 6871-6876.	6.5	312
2	Composite of CH₃NH₃PbI₃ with Reduced Graphene Oxide as a Highly Efficient and Stable Visibleâ€Light Photocatalyst for Hydrogen Evolution in Aqueous HI Solution. Advanced Materials, 2018, 30, 1704342.	21.0	302
3	Electrochemistry and Electrochemiluminescence of Organometal Halide Perovskite Nanocrystals in Aqueous Medium. Journal of the American Chemical Society, 2017, 139, 8772-8776.	13.7	185
4	Electrochemiluminescence of Luminol in Alkaline Solution at a Paraffin-Impregnated Graphite Electrode. Analytical Chemistry, 2003, 75, 324-331.	6.5	177
5	A Monochromatic Electrochemiluminescence Sensing Strategy for Dopamine with Dual-Stabilizers-Capped CdSe Quantum Dots as Emitters. Analytical Chemistry, 2014, 86, 2784-2788.	6.5	121
6	Efficient and Monochromatic Electrochemiluminescence of Aqueousâ€Soluble Au Nanoclusters via Hostâ€“Guest Recognition. Angewandte Chemie - International Edition, 2019, 58, 6901-6905.	13.8	112
7	Ultrasensitive Immunoassay Based on Anodic Near-Infrared Electrochemiluminescence from Dual-Stabilizer-Capped CdTe Nanocrystals. Analytical Chemistry, 2012, 84, 10645-10649.	6.5	96
8	Electrochemiluminescence Tuned by Electronâ€“Hole Recombination from Symmetry-Breaking in Wurtzite ZnSe. Journal of the American Chemical Society, 2016, 138, 1154-1157.	13.7	96
9	Spectrum-Resolved Dual-Color Electrochemiluminescence Immunoassay for Simultaneous Detection of Two Targets with Nanocrystals as Tags. Analytical Chemistry, 2017, 89, 13024-13029.	6.5	84
10	Near-Infrared Electrochemiluminescence Immunoassay with Biocompatible Au Nanoclusters as Tags. Analytical Chemistry, 2020, 92, 7581-7587.	6.5	82
11	Molecular-Counting-Free and Electrochemiluminescent Single-Molecule Immunoassay with Dual-Stabilizers-Capped CdSe Nanocrystals as Labels. Analytical Chemistry, 2016, 88, 5482-5488.	6.5	80
12	Electrochemical-Signal-Amplification Strategy for an Electrochemiluminescence Immunoassay with g-C₃N₄ as Tags. Analytical Chemistry, 2018, 90, 12930-12936.	6.5	75
13	Spectrum-Based Electrochemiluminescent Immunoassay with Ternary CdZnSe Nanocrystals as Labels. Analytical Chemistry, 2016, 88, 6947-6953.	6.5	72
14	Promising Anodic Electrochemiluminescence of Nontoxic Core/Shell CuInS₂/ZnS Nanocrystals in Aqueous Medium and Its Biosensing Potential. Analytical Chemistry, 2018, 90, 3563-3569.	6.5	63
15	Efficient Solid-State Electrochemiluminescence from High-Quality Perovskite Quantum Dot Films. Analytical Chemistry, 2017, 89, 8212-8216.	6.5	59
16	Monochromatic and electrochemically switchable electrochemiluminescence of perovskite CsPbBr₃nanocrystals. Nanoscale, 2016, 8, 18734-18739.	5.6	58
17	Recent progress in surface modification and interfacial engineering for high-performance perovskite light-emitting diodes. Nano Energy, 2020, 73, 104752.	16.0	58
18	Spectrum-Resolved Triplex-Color Electrochemiluminescence Multiplexing Immunoassay with Highly-Passivated Nanocrystals as Tags. Analytical Chemistry, 2018, 90, 12361-12365.	6.5	57

#	Article	IF	Citations
19	Potential-dependent electrochemiluminescence of luminol in alkaline solution at a gold electrode. Journal of Electroanalytical Chemistry, 2004, 566, 305-313.	3.8	56
20	Potential-Resolved Multicolor Electrochemiluminescence of N-(4-Aminobutyl)-N-ethylisoluminol/tetra(4-carboxyphenyl)porphyrin/TiO₂ Nanoluminophores. Analytical Chemistry, 2017, 89, 12636-12640.	6.5	55
21	Electrochemiluminescence resonance energy transfer between an emitter electrochemically generated by luminol as the donor and luminescent quantum dots as the acceptor and its biological application. Chemical Communications, 2011, 47, 8292.	4.1	51
22	Strong anodic near-infrared electrochemiluminescence from CdTe quantum dots at low oxidation potentials. Chemical Communications, 2011, 47, 10115.	4.1	45
23	Surface-Defect-Induced and Synergetic-Effect-Enhanced NIR-II Electrochemiluminescence of Auâ€“Ag Bimetallic Nanoclusters and Its Spectral Sensing. Analytical Chemistry, 2021, 93, 4909-4915.	6.5	45
24	Bandgap engineered and high monochromatic electrochemiluminescence from dual-stabilizers-capped CdSe nanocrystals with practical application potential. Biosensors and Bioelectronics, 2014, 55, 203-208.	10.1	44
25	Ultrasensitive Electrochemical DNA Assay Based on Counting of Single Magnetic Nanobeads by a Combination of DNA Amplification and Enzyme Amplification. Analytical Chemistry, 2009, 81, 1826-1832.	6.5	43
26	Ultrasensitive Electrochemiluminescent Sensor for MicroRNA with Multinary Znâ€“Agâ€“Inâ€“S/ZnS Nanocrystals as Tags. Analytical Chemistry, 2019, 91, 3754-3758.	6.5	39
27	Quantitative Counting of Single Fluorescent Molecules by Combined Electrochemical Adsorption Accumulation and Total Internal Reflection Fluorescence Microscopy. Analytical Chemistry, 2008, 80, 3999-4006.	6.5	37
28	Efficient Nearâ€Infrared Electrochemiluminescence from CdTe Nanocrystals with Low Triggering Potential and Ultrasensitive Sensing Ability. Chemistry - A European Journal, 2011, 17, 10213-10215.	3.3	37
29	Red-shifted electrochemiluminescence of CdTe nanocrystals via Co2+-Doping and its spectral sensing application in near-infrared region. Biosensors and Bioelectronics, 2020, 150, 111880.	10.1	36
30	Electrogenerated chemiluminescence of CdSe hollow spherical assemblies in aqueous system by immobilization in carbon paste. Journal of Electroanalytical Chemistry, 2005, 579, 175-180.	3.8	35
31	Hydrogen Peroxide Involved Anodic Charge Transfer and Electrochemiluminescence of All-Inorganic Halide Perovskite CsPbBr₃ Nanocrystals in an Aqueous Medium. Inorganic Chemistry, 2017, 56, 10135-10138.	4.0	34
32	Near-infrared electrochemiluminescence from non-toxic CuInS₂ nanocrystals. Journal of Materials Chemistry C, 2017, 5, 12393-12399.	5.5	33
33	Bovine serum albumin-stabilized silver nanoclusters with anodic electrochemiluminescence peak at 904Ânm in aqueous medium and applications in spectrum-resolved multiplexing immunoassay. Biosensors and Bioelectronics, 2021, 176, 112934.	10.1	32
34	Dichroic Mirror-Assisted Electrochemiluminescent Assay for Simultaneously Detecting Wild-type and Mutant p53 with Photomultiplier Tubes. Analytical Chemistry, 2018, 90, 5474-5480.	6.5	31
35	Ultrasensitive electrochemical immunosensor for quantitative detection of tumor specific growth factor by using Ag@CeO2 nanocomposite as labels. Talanta, 2016, 156-157, 11-17.	5.5	30
36	Enhanced Near-Infrared Electrochemiluminescence from Trinary Agâ€“Inâ€“S to Multinary Agâ€“Gaâ€“Inâ€“S Nanocrystals via Doping-in-Growth and Its Immunosensing Applications. Analytical Chemistry, 2021, 93, 2160-2165.	6.5	30

#	Article	IF	Citations
37	Electrochemistry of thiol-capped CdTe quantum dots and its sensing application. Journal of Electroanalytical Chemistry, 2009, 625, 88-91.	3.8	29
38	Oneâ€Pot Synthesis of Dualâ€Stabilizerâ€Capped CdTe Nanocrystals with Efficient Nearâ€Infrared Photoluminescence and Electrochemiluminescence. European Journal of Inorganic Chemistry, 2011, 2011, 3726-3730.	2.0	29
39	Electrochemically Lighting Up Luminophores at Similar Low Triggering Potentials with Mechanistic Insights. Analytical Chemistry, 2020, 92, 6144-6149.	6.5	28
40	Dual-wavebands-resolved electrochemiluminescence multiplexing immunoassay with dichroic mirror assistant photomultiplier-tubes as detectors. Biosensors and Bioelectronics, 2018, 115, 77-82.	10.1	27
41	Promising Electrochemiluminescence from CuInS₂/ZnS Nanocrystals/Hydrazine via Internal Cu(I)/Cu(II) Couple Cycling. Analytical Chemistry, 2019, 91, 10221-10226.	6.5	26
42	Nanocomposite of electrochemically reduced graphene oxide and gold nanoparticles enhanced electrochemilunescence of peroxydisulfate and its immunosensing abililty towards human IgG. Journal of Electroanalytical Chemistry, 2012, 686, 25-31.	3.8	25
43	Ultrasensitive Eletrogenerated Chemiluminescence Immunoassay by Magnetic Nanobead Amplification. Electroanalysis, 2010, 22, 333-337.	2.9	24
44	Coreactant-Free and Direct Electrochemiluminescence from Dual-Stabilizer-Capped InP/ZnS Nanocrystals: A New Route Involving n-Type Luminophore. Analytical Chemistry, 2022, 94, 1350-1356.	6.5	23
45	Spectrum-based and color-selective electrochemiluminescence immunoassay for determining human prostate specific antigen in near-infrared region. Talanta, 2017, 165, 117-121.	5.5	22
46	Promising Mercaptobenzoic Acid-Bridged Charge Transfer for Electrochemiluminescence from CuInS2@ZnS Nanocrystals via Internal Cu+/Cu2+ Couple Cycling. Journal of Physical Chemistry Letters, 2019, 10, 5408-5413.	4.6	22
47	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. Talanta, 2016, 154, 175-182.	5.5	21
48	Efficient electronic coupling and heterogeneous charge transport of zero-dimensional Cs₄PbBr₆ perovskite emitters. Journal of Materials Chemistry A, 2020, 8, 23803-23811.	10.3	21
49	Adjustable Electrochemiluminescence from Highly Passivated CdTe/CdS Nanocrystals by Simple Surface Decoration with Counterions. Chemistry - A European Journal, 2018, 24, 9592-9597.	3.3	20
50	Efficient and Monochromatic Electrochemiluminescence of Aqueousâ€Soluble Au Nanoclusters via Hostâ€“Guest Recognition. Angewandte Chemie, 2019, 131, 6975-6979.	2.0	19
51	Enhancing electrochemiluminescence of FAPbBr3 nanocrystals by using carbon nanotubes and TiO2 nanoparticles as conductivity and co-reaction accelerator for dopamine determination. Electrochimica Acta, 2020, 360, 136992.	5.2	19
52	Spectrumâ€Based Electrochemiluminescence Immunoassay for Selectively Determining CA125â€‰in Greenish Waveband. ChemElectroChem, 2017, 4, 1714-1718.	3.4	17
53	Mechanistic investigations into synergistically enhanced radiative-charge-transfer in Auâ€“Ag bimetallic nanoclusters. Chemical Communications, 2020, 56, 5665-5668.	4.1	17
54	Tunable Electron-Injection Channels of Heterostructured ZnSe@CdTe Nanocrystals for Surface-Chemistry-Involved Electrochemiluminescence. Journal of Physical Chemistry Letters, 2018, 9, 6089-6095.	4.6	16

#	Article	IF	Citations
55	A high sensitive single luminophore ratiometric electrochemiluminescence immunosensor in combined with anodic stripping voltammetry. Electrochimica Acta, 2020, 336, 135725.	5.2	16
56	Enhancing aqueous stability and radiative-charge-transfer efficiency of CsPbBr3 perovskite nanocrystals via conductive silica gel coating. Electrochimica Acta, 2020, 330, 135332.	5.2	15
57	Electrogenerated chemiluminescence sensor for formaldehyde based on Ru(bpy)32+-doped silica nanoparticles modified Au electrode. Materials Science and Engineering C, 2012, 32, 2169-2174.	7.3	14
58	Thermally Activated Delayed Phosphorescence and Interchromophore Exciton Coupling in a Platinumâ€Based Organometallic Emitter. Advanced Optical Materials, 2020, 8, 2001023.	7.3	14
59	Heterogeneous electrochemiluminescence spectrometry of Ru(bpy)32+ for determination of trace DNA and its application in measurement of gene expression level. Talanta, 2012, 89, 427-432.	5.5	13
60	Exonuclease III-assisted positive feedback signal amplification strategy for ultrasensitive electrochemical detection of nucleic acids. Sensors and Actuators B: Chemical, 2020, 304, 127410.	7.8	13
61	Electrochemiluminescence DNA Sensor Based on Hairpin Structure DNA as recognition element and Ru(bpy)‹sub›3‹/sub›‹sup›2+‹/sup›â€doped silica Nanoparticles as Signalâ€Producing Compound. Electroanalysis, 2011, 23, 2693-2698.	2.9	12
62	Enhanced aqueous stability and radiative-charge-transfer of CsPbBr3/Ag2S perovskite nanocrystal hybrids. Journal of Electroanalytical Chemistry, 2020, 858, 113835.	3.8	12
63	Use of Triangular Silver Nanoplates as Low Potential Redox Mediators for Electrochemical Sensing. Analytical Chemistry, 2021, 93, 3295-3300.	6.5	12
64	Low-Triggering-Potential Electrochemiluminescence from Surface-Confined CuInS‹sub›2‹/sub›@ZnS Nanocrystals and their Biosensing Applications. Analytical Chemistry, 2021, 93, 12250-12256.	6.5	12
65	A General Route for Chemiluminescence of n-Type Au Nanocrystals. Analytical Chemistry, 2022, 94, 8811-8817.	6.5	12
66	Selectively Lighting Up Singlet Oxygen via Aggregation-Induced Electrochemiluminescence Energy Transfer. Analytical Chemistry, 2022, 94, 3718-3726.	6.5	11
67	Hydrazine Hydrate and Dissolved Oxygen-Triggered Near-Infrared Chemiluminescence from CuInS‹sub›2‹/sub›@ZnS Nanocrystals for Bioassays. Analytical Chemistry, 2021, 93, 8931-8936.	6.5	10
68	Sensitive, Signal-Modulation Strategy for Discrimination of ECL Spectra and Investigation of Mutual Interactions of Emitters. Analytical Chemistry, 2022, 94, 3637-3644.	6.5	10
69	Ultrasensitive electrochemiluminescence method for determination of DNA using Ru(bpy)32+-coated magnetic submicrobeads wrapped with carbon nanotubes. Electrochemistry Communications, 2011, 13, 1499-1501.	4.7	9
70	Electrochemiluminescence ultrasensitive immunoassay for carbohydrate antigen 125 based on AgInS2/ZnS nanocrystals. Analytical and Bioanalytical Chemistry, 2021, 413, 2207-2215.	3.7	9
71	Surface-Engineering Enhanced Charge Injection and Recombination of Silver Nanoclusters in an Aqueous Medium. Journal of Physical Chemistry C, 2021, 125, 22078-22083.	3.1	7
72	Ultrasensitive electrochemical immunoassay based on counting single magnetic nanobead by a combination of nanobead amplification and enzyme amplification. Electrochemistry Communications, 2009, 11, 1457-1459.	4.7	6

#	Article	IF	Citations
73	Highly potential-resolved anodic electrochemiluminescence multiplexing immunoassay with CuInS2@ZnS nanocrystals and [Ru(bpy)2(dcbpy)]2+ as emitters. Journal of Electroanalytical Chemistry, 2021, 888, 115173.	3.8	6
74	Ce4+ doping to modulate electrochemical and radiative-charge-transfer behaviors of CsPbBr3 perovskite nanocrystals. Journal of Electroanalytical Chemistry, 2020, 876, 114546.	3.8	5
75	Highly conjugated water soluble CdSe quantum dots to multiwalled carbon nanotubes. Chinese Chemical Letters, 2009, 20, 356-357.	9.0	4
76	Enhanced Charge Injection and Recombination of CsPbBr3 Perovskite Nanocrystals upon Internal Heterovalent Substitution. Journal of Physical Chemistry C, 2019, 123, 29916-29921.	3.1	4
77	Tunable electrochemiluminescence properties of CsPbBr3perovskite nanocrystals using mixed-monovalent cations. New Journal of Chemistry, 2020, 44, 3323-3329.	2.8	4
78	Ternary-Host and Heterojunction Enabled Eye-Visible Elastic Mechanoluminescence from (Ca_{0.5}Sr_{0.5})ZnOS/xZnS/Mn²⁺. Journal of Physical Chemistry C, 2022, 126, 1523-1530.	3.1	4
79	Glow and Flash Adjustable Chemiluminescence with Tunable Waveband from the Same CuInS₂@ZnS Nanocrystal Luminophore. Analytical Chemistry, 2022, 94, 6902-6908.	6.5	4