

Yanbing Zu

List of Publications by Year in descending order

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43
papers

3,134
citations

186265
28
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276875
41
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43
all docs

43
docs citations

43
times ranked

3265
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemistry, Spectroscopy and Electrogenerated Chemiluminescence of Perylene, Terrylene, and Quaterylene Diimides in Aprotic Solution. <i>Journal of the American Chemical Society</i> , 1999, 121, 3513-3520.	13.7	453
2	Electrogenerated Chemiluminescence. 66. The Role of Direct Coreactant Oxidation in the Ruthenium Tris(2,2'-bipyridyl)/Tripropylamine System and the Effect of Halide Ions on the Emission Intensity. <i>Analytical Chemistry</i> , 2000, 72, 3223-3232.	6.5	408
3	Electrogenerated Chemiluminescence. 67. Dependence of Light Emission of the Tris(2,2'-bipyridyl)ruthenium(II)/Tripropylamine System on Electrode Surface Hydrophobicity. <i>Analytical Chemistry</i> , 2001, 73, 3960-3964.	6.5	189
4	Homogeneous Oxidation of Trialkylamines by Metal Complexes and Its Impact on Electrogenerated Chemiluminescence in the Trialkylamine/Ru(bpy) ₃ ²⁺ System. <i>Journal of Physical Chemistry B</i> , 2001, 105, 210-216.	2.6	180
5	Reduction Potentials of Rieske Clusters: Importance of the Coupling between Oxidation State and Histidine Protonation State. <i>Biochemistry</i> , 2003, 42, 12400-12408.	2.5	135
6	Scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2000, 491, 22-29.	3.8	126
7	Effect of Nonionic Fluorosurfactant on the Electrogenerated Chemiluminescence of the Tris(2,2'-bipyridine)ruthenium(II)/Tri-n-propylamine System: Lower Oxidation Potential and Higher Emission Intensity. <i>Analytical Chemistry</i> , 2004, 76, 1768-1772.	6.5	114
8	Facile and Controllable Loading of Single-Stranded DNA on Gold Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 8523-8528.	6.5	99
9	Multifunctional Ruthenium(II) Polypyridine Complex-Based Core-Shell Magnetic Silica Nanocomposites: Magnetism, Luminescence, and Electrochemiluminescence. <i>ACS Nano</i> , 2008, 2, 905-912.	14.6	95
10	Scanning Optical Microscopy with an Electrogenerated Chemiluminescent Light Source at a Nanometer Tip. <i>Analytical Chemistry</i> , 2001, 73, 2153-2156.	6.5	91
11	Specific Postcolumn Detection Method for HPLC Assay of Homocysteine Based on Aggregation of Fluorosurfactant-Capped Gold Nanoparticles. <i>Analytical Chemistry</i> , 2007, 79, 666-672.	6.5	87
12	Nonionic surfactant-capped gold nanoparticles as postcolumn reagents for high-performance liquid chromatography assay of low-molecular-mass biothiols. <i>Journal of Chromatography A</i> , 2007, 1163, 328-332.	3.7	82
13	Specific detection of cysteine and homocysteine: recognizing one-methylene difference using fluorosurfactant-capped gold nanoparticles. <i>Chemical Communications</i> , 2007, , 3871.	4.1	78
14	Emission of Tris(2,2'-bipyridine)ruthenium(II) by Coreactant Electrogenerated Chemiluminescence: From O ₂ -Insensitive to Highly O ₂ -Sensitive. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12049-12053.	2.6	75
15	Complete Thermodynamic Characterization of Reduction and Protonation of the bc ₁ -type Rieske [2Fe-2S] Center of <i>Thermus thermophilus</i> . <i>Journal of the American Chemical Society</i> , 2001, 123, 9906-9907.	13.7	68
16	Reversible, Electrochemical Interconversion of NADH and NAD ⁺ by the Catalytic (I _h) Subcomplex of Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I). <i>Journal of the American Chemical Society</i> , 2003, 125, 6020-6021.	13.7	64
17	Gold Nanoparticle-Modified ITO Electrode for Electrogenerated Chemiluminescence: Well-Preserved Transparency and Highly Enhanced Activity. <i>Langmuir</i> , 2007, 23, 11387-11390.	3.5	64
18	Redox Properties of the [2Fe-2S] Center in the 24 kDa (NQO2) Subunit of NADH:Ubiquinone Oxidoreductase (Complex I). <i>Biochemistry</i> , 2002, 41, 10056-10069.	2.5	61

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19	Coordination of mercury(ii) to gold nanoparticle associated nitrotriazole towards sensitive colorimetric detection of mercuric ion with a tunable dynamic range. <i>Analyst</i> , The, 2011, 136, 1690.	3.5	59
20	Highly Efficient Quenching of Coreactant Electrogenerated Chemiluminescence by Phenolic Compounds. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16047-16051.	2.6	56
21	Electrogenerated Chemiluminescence of Platinum(II) Alkynyl Terpyridine Complex with Peroxydisulfate as Coreactant. <i>Inorganic Chemistry</i> , 2011, 50, 2125-2132.	4.0	49
22	Oxidation of Cysteine at a Fluorosurfactant-Modified Gold Electrode: Lower Overpotential and Higher Selectivity. <i>Langmuir</i> , 2007, 23, 10816-10822.	3.5	48
23	Inverted Region Electron Transfer Demonstrated by Electrogenerated Chemiluminescence at the Liquid/Liquid Interface. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6272-6276.	2.6	45
24	Electrogenerated Chemiluminescence of the Tris(2,2'-bipyridine)ruthenium(II)/Tri-n-propylamine (TPrA) System: Crucial Role of the Long Lifetime of TPrA ⁺ Cation Radicals Suggested by Electrode Surface Effects. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16663-16667.	3.1	44
25	Studies on silicon etching using the confined etchant layer technique. <i>Electrochimica Acta</i> , 1998, 43, 1683-1690.	5.2	42
26	Scanning Electrochemical Microscopy. 43. Investigation of Oxalate Oxidation and Electrogenerated Chemiluminescence across the Liquid-Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8951-8962.	2.6	33
27	Characterization of the low-oxidation-potential electrogenerated chemiluminescence of tris(2,2'-bipyridine)ruthenium(II) with tri-n-propylamine as coreactant. <i>Analytica Chimica Acta</i> , 2005, 550, 47-52.	5.4	33
28	Electrochemiluminescence of Ruthenium(II) Complexes Functionalized with Crown Ether Pendants and Effects of Cation Binding. <i>Inorganic Chemistry</i> , 2008, 47, 1218-1223.	4.0	30
29	Breaking and Re-Forming the Disulfide Bond at the High-Potential, Respiratory-Type Rieske [2Fe-2S] Center of <i>Thermus thermophilus</i> : Characterization of the Sulfhydryl State by Protein-Film Voltammetry. <i>Biochemistry</i> , 2002, 41, 14054-14065.	2.5	28
30	Electrogenerated Chemiluminescence of the Tris(2,2'-bipyridine)ruthenium(II)/Tertiary Amine Systems: Effects of Electrode Surface Hydrophobicity on the Low-Oxidation-Potential Emission. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21877-21882.	3.1	27
31	Simultaneous detection of ascorbic acid and uric acid using a fluorosurfactant-modified platinum electrode. <i>Journal of Electroanalytical Chemistry</i> , 2007, 603, 281-286.	3.8	26
32	Selective detection of uric acid in the presence of ascorbic acid based on electrochemiluminescence quenching. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 151-155.	3.8	26
33	Sequence-Selective Recognition of Nucleic Acids under Extremely Low Salt Conditions Using Nanoparticle Probes. <i>Analytical Chemistry</i> , 2011, 83, 4090-4094.	6.5	24
34	Electrogenerated chemiluminescence of a bis-cyclometalated alkynylgold(III) complex with irreversible oxidation using tri-n-propylamine as co-reactant. <i>Chemical Communications</i> , 2009, , 791.	4.1	23
35	Molecular and nanoparticle postcolumn reagents for assay of low-molecular-mass biothiols using high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 3358-3365.	2.3	18
36	Visualizing Low-Level Point Mutations: Enzyme-Like Selectivity Offered by Nanoparticle Probes. <i>Small</i> , 2011, 7, 306-310.	10.0	17

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37	Electrochemical recognition of single-methylene difference between cysteine and homocysteine. <i>Journal of Electroanalytical Chemistry</i> , 2008, 624, 9-13.	3.8	13
38	Nanoprobe-based genetic testing. <i>Nano Today</i> , 2014, 9, 166-171.	11.9	6
39	Differentiation of biothiols from other sulfur-containing biomolecules using iodide-capped gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 25101-25109.	3.6	6
40	Improvement of silicon etching resolution using the confined etchant layer technique. <i>Science Bulletin</i> , 1997, 42, 1318-1319.	1.7	5
41	Electrochemiluminescence Detection in Bioanalysis. , 0, , 235-267.		5
42	Facile and phase-defined determination of HLA alleles with morpholino-functionalized nanoparticle probes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 611-618.	3.3	2
43	Effect of surfactants and halide ions on the adsorption and oxidation of homocysteine at the gold electrode. <i>RSC Advances</i> , 2016, 6, 50315-50321.	3.6	0