

# Wujian Miao

## List of Publications by Year in descending order

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47  
papers

4,649  
citations

236612

25  
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49  
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49  
docs citations

49  
times ranked

3271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrogenerated Chemiluminescence and Its Biorelated Applications. <i>Chemical Reviews</i> , 2008, 108, 2506-2553.	23.0	1,810
2	Electrogenerated Chemiluminescence 69: The Tris(2,2'-bipyridine)ruthenium(II), (Ru(bpy) <sub>3</sub> <sup>2+</sup> )/Tri-n-propylamine (TPrA) System Revisited A New Route Involving TPrA <sup>•+</sup> +Cation Radicals. <i>Journal of the American Chemical Society</i> , 2002, 124, 14478-14485.	6.6	847
3	Electrogenerated Chemiluminescence. 77. DNA Hybridization Detection at High Amplification with [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -Containing Microspheres. <i>Analytical Chemistry</i> , 2004, 76, 5379-5386.	3.2	199
4	Electrogenerated Chemiluminescence. 72. Determination of Immobilized DNA and C-Reactive Protein on Au(111) Electrodes Using Tris(2,2'-bipyridyl)ruthenium(II) Labels. <i>Analytical Chemistry</i> , 2003, 75, 5825-5834.	3.2	180
5	Electrogenerated Chemiluminescence. 80. C-Reactive Protein Determination at High Amplification with [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -Containing Microspheres. <i>Analytical Chemistry</i> , 2004, 76, 7109-7113.	3.2	150
6	Solution Viscosity Effects on the Heterogeneous Electron Transfer Kinetics of Ferrocenemethanol in Dimethyl Sulfoxide-Water Mixtures. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1392-1398.	1.2	129
7	Double Covalent Coupling Method for the Fabrication of Highly Sensitive and Reusable Electrogenerated Chemiluminescence Sensors. <i>Analytical Chemistry</i> , 2010, 82, 5046-5052.	3.2	98
8	Spectrum-Resolved Dual-Color Electrochemiluminescence Immunoassay for Simultaneous Detection of Two Targets with Nanocrystals as Tags. <i>Analytical Chemistry</i> , 2017, 89, 13024-13029.	3.2	84
9	Molecular-Counting-Free and Electrochemiluminescent Single-Molecule Immunoassay with Dual-Stabilizers-Capped CdSe Nanocrystals as Labels. <i>Analytical Chemistry</i> , 2016, 88, 5482-5488.	3.2	80
10	Spectrum-Based Electrochemiluminescent Immunoassay with Ternary CdZnSe Nanocrystals as Labels. <i>Analytical Chemistry</i> , 2016, 88, 6947-6953.	3.2	72
11	Mercury(II) Immobilized on Carbon Nanotubes: Synthesis, Characterization, and Redox Properties. <i>Langmuir</i> , 2000, 16, 6004-6012.	1.6	68
12	Evidence for Nucleation-Growth, Redistribution, and Dissolution Mechanisms during the Course of Redox Cycling Experiments on the C60/NBu <sub>4</sub> C60 Solid-State Redox System: Voltammetric, SEM, and in Situ AFM Studies. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5637-5644.	1.2	62
13	Ultrasensitive detection of TNT in soil, water, using enhanced electrogenerated chemiluminescence. <i>Analytica Chimica Acta</i> , 2009, 632, 197-202.	2.6	57
14	Electrogenerated chemiluminescence determination of C-reactive protein with carboxyl CdSe/ZnS core/shell quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10073.	1.3	56
15	Sensitive Determination of Triacetone Triperoxide Explosives Using Electrogenerated Chemiluminescence. <i>Analytical Chemistry</i> , 2013, 85, 8008-8015.	3.2	47
16	Electron Self-Exchange in the Solid-State: Cocrystals of Hydroquinone and Bipyridyl Triazole. <i>Journal of the American Chemical Society</i> , 2001, 123, 2877-2884.	6.6	46
17	Pitting Corrosion of Zn and Zn-Al Coated Steels in pH 2 to 12 NaCl Solutions. <i>Journal of the Electrochemical Society</i> , 2007, 154, C7.	1.3	45
18	Ultrasensitive electrogenerated chemiluminescence biosensor for the determination of mercury ion incorporating G4 PAMAM dendrimer and Hg(II)-specific oligonucleotide. <i>Biosensors and Bioelectronics</i> , 2012, 32, 37-42.	5.3	43

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19	Electrogenerated Chemiluminescence Biosensor with a Tripod Probe for the Highly Sensitive Detection of MicroRNA. <i>Analytical Chemistry</i> , 2019, 91, 1452-1459.	3.2	43
20	An ultrasensitive electrogenerated chemiluminescence-based immunoassay for specific detection of Zika virus. <i>Scientific Reports</i> , 2016, 6, 32227.	1.6	40
21	Examination of Electron Transfer Through DNA Using Electrogenerated Chemiluminescence. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16999-17004.	1.5	38
22	Synergistic effects of photocatalytic and electrocatalytic oxidation based on a three-dimensional electrode reactor toward degradation of dyes in wastewater. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151749.	2.8	37
23	Electrochemical and Electrogenerated Chemiluminescent Studies of a Trinuclear Complex, $[(\text{phen})_2\text{Ru}(\text{dpp})_2\text{RhCl}_2]^{5+}$ , and Its Interactions with Calf Thymus DNA. <i>Analytical Chemistry</i> , 2009, 81, 4068-4075.	3.2	31
24	Identification of Processes that Occur after Reduction and Dissolution of C60 Adhered to Gold, Glassy Carbon, and Platinum Electrodes Placed in Acetonitrile (Electrolyte) Solution. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2320-2329.	1.2	30
25	Electrochemical and Structural Studies on Microcrystals of the (C60) <sub>x</sub> (CTV) Inclusion Complexes (x = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100). <i>Journal of Physical Chemistry B</i> , 2000, 104, 2320-2329.	1.2	30
26	Aggregation-Induced Electrochemiluminescence of the Dichlorobis(1,10-phenanthroline)ruthenium(II) (Ru(phen) <sub>2</sub> Cl <sub>2</sub> )/Tri- <i>n</i> -propylamine (TPrA) System in H <sub>2</sub> O/MeCN Mixtures for Identification of Nucleic Acids. <i>Analytical Chemistry</i> , 2020, 92, 9613-9619.	3.2	27
27	Sensitive Determination of Hexamethylene Triperoxide Diamine Explosives, Using Electrogenerated Chemiluminescence Enhanced by Silver Nitrate. <i>Analytical Chemistry</i> , 2009, 81, 5267-5272.	3.2	26
28	Synthesis and Characterization of Enhanced Photocatalytic Activity with Li <sup>+</sup> -Doping Nanosized TiO <sub>2</sub> Catalyst. <i>ACS Omega</i> , 2020, 5, 28510-28516.	1.6	23
29	EQCM study of the ECL quenching of the tris(2,2'-bipyridyl)ruthenium(II)/tris- <i>n</i> -propylamine system at a Au electrode in the presence of chloride ions. <i>Electrochimica Acta</i> , 2008, 53, 7661-7667.	2.6	21
30	Crosslinked PEDOT:PSS Organic Electrochemical Transistors on Interdigitated Electrodes with Improved Stability. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1436-1444.	2.0	21
31	Electrogenerated Chemiluminescence (ECL) Quenching of the Ru(bpy) <sub>3</sub> <sup>2+</sup> /TPrA System by the Explosive TNT. <i>Electrochimica Acta</i> , 2015, 180, 196-201.	2.6	20
32	In situ enhanced electrochemiluminescence based on co-reactant self-generated for sensitive detection of microRNA. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 35-41.	4.0	19
33	Modelling of solid-state, dissolution and solution-phase reactions at adhered solid-electrode-solvent (electrolyte) interfaces: electrochemistry of microcrystals of C60 adhered to an electrode in contact with dichloromethane (Bu <sub>4</sub> NClO <sub>4</sub> ). <i>Journal of Electroanalytical Chemistry</i> , 2001, 501, 22-32.	1.9	18
34	Glutaraldehyde-modified electrode for nonlabeling voltammetric detection of p16 INK4A gene. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 651-659.	1.9	18
35	Voltammetric reduction of mercury(II), silver(I), lead(II) and copper(II) ions adsorbed onto a new form of mesoporous silica. <i>Analytica Chimica Acta</i> , 1999, 396, 203-213.	2.6	17
36	Electrogenerated Chemiluminescence. , 2007, , 541-590.		16

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37	Electrochemical, EPR, and Magnetic Studies on Microcrystals of the [C60@S,(p-Benzyl-calix[5]arene)2]@C8Toluene and Its One-Electron-Reduced Encapsulation Complex. Journal of Physical Chemistry B, 2000, 104, 8129-8137.	1.2	14
38	Electrochemistry and Electrogenerated Chemiluminescence of All-trans Conjugated Polymer Poly[distyrylbenzene-b-(ethylene Oxide)]s. Journal of Physical Chemistry B, 2006, 110, 15719-15723.	1.2	14
39	Characterization and Photopolymerization of Divinyl Fumarate. Macromolecules, 2007, 40, 6172-6180.	2.2	14
40	Ultrasensitive detection of miRNA based on efficient immobilization of probe and electrochemiluminescent quenching of Ru(bpy)3 <sup>2+</sup> by methylene blue. Analytica Chimica Acta, 2020, 1093, 52-60.	2.6	13
41	Effects of multi-walled carbon nanotubes on the electrogenerated chemiluminescence and fluorescence of CdTe quantum dots. Analytical and Bioanalytical Chemistry, 2016, 408, 7049-7057.	1.9	11
42	Coreactants. , 2004, , 213-271.		7
43	Organic Electrochemical Transistor with Molecularly Imprinted Polymer-Modified Gate for the Real-Time Selective Detection of Dopamine. ACS Applied Polymer Materials, 2022, 4, 2337-2345.	2.0	7
44	Investigation of perfluorooctanoic acid induced DNA damage using electrogenerated chemiluminescence associated with charge transfer in DNA. Analytical and Bioanalytical Chemistry, 2016, 408, 7137-7145.	1.9	5
45	Photoelectrochemical studies on earth abundant pentanickel polyoxometalates as co-catalysts for solar water oxidation. Sustainable Energy and Fuels, 2018, 2, 827-835.	2.5	5
46	Cathodic Stripping Synthesis and Cytotoxicity Studies of Glutathione-Capped CdTe Quantum Dots. Journal of Nanoscience and Nanotechnology, 2011, 11, 6710-6717.	0.9	3
47	Electrogenerated Chemiluminescence (ECL). , 2004, , 1-12.		0