

# Won-yong Lee

## List of Publications by Year in descending order

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66  
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2,294  
citations

236925

25  
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214800

47  
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66  
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66  
docs citations

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times ranked

2169  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence in analytical science. <i>Mikrochimica Acta</i> , 1997, 127, 19-39.	5.0	246
2	Electrogenerated Chemiluminescence from Tris(2,2'-bipyridyl)ruthenium(II) Immobilized in Titania <sup>+</sup> Perfluorosulfonated Ionomer Composite Films. <i>Analytical Chemistry</i> , 2003, 75, 4250-4256.	6.5	182
3	Evaluation of Use of Tris(2,2'-bipyridyl)ruthenium(III) as a Chemiluminescent Reagent for Quantitation in Flowing Streams. <i>Analytical Chemistry</i> , 1995, 67, 1789-1796.	6.5	147
4	Amperometric phenol biosensor based on sol-gel silicate/Nafion composite film. <i>Analytica Chimica Acta</i> , 2003, 479, 143-150.	5.4	131
5	Determination of Dansyl Amino Acids and Oxalate by HPLC with Electrogenerated Chemiluminescence Detection Using Tris(2,2'-bipyridyl)ruthenium(II) in the Mobile Phase. <i>Analytical Chemistry</i> , 1996, 68, 1530-1535.	6.5	105
6	Sol-gel-derived thick-film conductometric biosensor for urea determination in serum. <i>Analytica Chimica Acta</i> , 2000, 404, 195-203.	5.4	102
7	Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase. <i>Analytica Chimica Acta</i> , 1999, 390, 83-91.	5.4	96
8	Amperometric glucose biosensor based on sol-gel-derived metal oxide/Nafion composite films. <i>Analytica Chimica Acta</i> , 2005, 537, 179-187.	5.4	88
9	Tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence sensor based on carbon nanotube dispersed in sol-gel-derived titania <sup>+</sup> Nafion composite films. <i>Analytica Chimica Acta</i> , 2006, 565, 48-55.	5.4	80
10	Nafion-stabilized magnetic nanoparticles (Fe <sub>3</sub> O <sub>4</sub> ) for [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> (bpy = bipyridine) electrogenerated chemiluminescence sensor. <i>Chemical Communications</i> , 2005, , 2966.	4.1	67
11	Organosilicate thin film containing Ru(bpy) <sub>3</sub> <sup>2+</sup> for an electrogenerated chemiluminescence (ECL) sensor Electronic supplementary information (ESI) available: experimental details. See <a href="http://www.rsc.org/suppdata/cc/b3/b303766e/">http://www.rsc.org/suppdata/cc/b3/b303766e/</a> . <i>Chemical Communications</i> , 2003, , 1602.	4.1	59
12	Microgravimetric lectin biosensor based on signal amplification using carbohydrate-stabilized gold nanoparticles. <i>Chemical Communications</i> , 2008, , 4771.	4.1	59
13	Calix[2]furano[2]pyrrole and related compounds as the neutral carrier in silver ion-selective electrode. <i>Analytica Chimica Acta</i> , 2002, 453, 81-88.	5.4	52
14	Determination of $\beta$ -blockers in pharmaceutical preparations and human urine by high-performance liquid chromatography with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2002, 471, 51-59.	5.4	50
15	Amperometric Glucose Biosensor Based on Glucose Oxidase Encapsulated in Carbon Nanotube <sup>+</sup> Titania <sup>+</sup> Nafion Composite Film on Platinized Glassy Carbon Electrode. <i>Electroanalysis</i> , 2007, 19, 1757-1763.	2.9	50
16	Microfabricated Conductometric Urea Biosensor Based on Sol-Gel Immobilized Urease. <i>Electroanalysis</i> , 2000, 12, 78-82.	2.9	42
17	Synthesis and characterization of electrochemiluminescent ruthenium(II) complexes containing o-phenanthroline and various $\beta$ -diimine ligands. <i>Talanta</i> , 2004, 62, 595-602.	5.5	40
18	Electrochemical determination of carbohydrate-binding proteins using carbohydrate-stabilized gold nanoparticles and silver enhancement. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1326-1331.	10.1	36

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19	Electrogenerated Chemiluminescence Ethanol Biosensor Based on Carbon Nanotube-Titania-Nafion Composite Film. <i>Electroanalysis</i> , 2007, 19, 459-465.	2.9	34
20	Poly(m-phenylenediamine)â€“Prussian blue hybrid film formed by one-step electrochemical deposition for glucose biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2013, 689, 96-102.	3.8	34
21	Changes in steroid metabolism among girls with precocious puberty may not be associated with urinary levels of bisphenol A. <i>Reproductive Toxicology</i> , 2014, 44, 1-6.	2.9	34
22	Impedometric estrogen biosensor based on estrogen receptor alpha-immobilized gold electrode. <i>Journal of Electroanalytical Chemistry</i> , 2012, 671, 106-111.	3.8	32
23	Solâ€“gel-immobilized Tris(2,2â€“bipyridyl)ruthenium(II) electrogenerated chemiluminescence sensor for high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2005, 541, 47-54.	5.4	31
24	Electrochemical detection of estrogen hormone by immobilized estrogen receptor on Au electrode. <i>Surface and Coatings Technology</i> , 2010, 205, S275-S278.	4.8	30
25	Amperometric Ethanol Biosensor Based on Carbon Nanotubes Dispersed in Solâ€“Gel-Derived Titaniaâ€“Nafion Composite Film. <i>Electroanalysis</i> , 2007, 19, 1524-1530.	2.9	26
26	Highly sensitive electrochemical capsaicin sensor based on graphene-titania-Nafion composite film. <i>Journal of Electroanalytical Chemistry</i> , 2016, 776, 74-81.	3.8	26
27	Polyamidoamine dendrimers functionalized with electrochemiluminescent polypyridyl Ru(II) complexes. <i>Synthetic Metals</i> , 2005, 150, 93-100.	3.9	25
28	Amperometric Tyrosinase Biosensor Based on Carbon Nanotubeâ€“Titaniaâ€“Nafion Composite Film. <i>Electroanalysis</i> , 2007, 19, 1048-1054.	2.9	25
29	Amperometric Tyrosinase Biosensor Based on Carbon Nanotubeâ€“Doped Solâ€“Gelâ€“Derived Zinc Oxideâ€“Nafion Composite Films. <i>Electroanalysis</i> , 2011, 23, 962-970.	2.9	25
30	Tris(2,2â€“bipyridyl)ruthenium(II) Electrogenerated Chemiluminescence Sensor Based on Solâ€“Gel-Derived V2O5/Nafion Composite Films. <i>Electroanalysis</i> , 2006, 18, 275-281.	2.9	24
31	Detection of hydrogen peroxide with luminol electrogenerated chemiluminescence at mesoporous platinum electrode in neutral aqueous solution. <i>Journal of Electroanalytical Chemistry</i> , 2011, 660, 101-107.	3.8	24
32	Detection of concanavalin A based on attenuated fluorescence resonance energy transfer between quantum dots and mannose-stabilized gold nanoparticles. <i>Analytical Methods</i> , 2013, 5, 64-67.	2.7	23
33	Fluorescence energy transfer inhibition bioassay for cholera toxin based on galactose-stabilized gold nanoparticles and amine-terminated quantum dots. <i>Microchemical Journal</i> , 2016, 124, 9-14.	4.5	23
34	Electron Hopping and Electronic Conductivity in Monolayers of Alkanethiolâ€“Stabilized Gold Nanoâ€“Clusters at the Air/Water Interface. <i>Israel Journal of Chemistry</i> , 1997, 37, 213-223.	2.3	21
35	Simultaneous determination of volatile organic compounds with a wide range of polarities in urine by headspace solidâ€“phase microextraction coupled to gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 613-622.	1.5	20
36	Star-shaped electrochemiluminescent metallodendrimers with central polypyridyl Ru(II) complexes: Synthesis and their photophysical and electrochemical properties. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 655-666.	1.8	18

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37	Electrochemical Determination of Bisphenol A at Carbon Nanotube-Doped Titania-Nafion Composite Modified Electrode. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 1065-1069.	1.9	17
38	Tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence ethanol biosensor based on ionic liquid doped titania-Nafion composite film. <i>Microchemical Journal</i> , 2018, 142, 62-69.	4.5	14
39	Solid-state tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence sensor based on ionic liquid/sol-gel titania/Nafion composite film. <i>Journal of Electroanalytical Chemistry</i> , 2015, 736, 55-60.	3.8	13
40	Tris(2,2'-bipyridyl)ruthenium(II) Electrogenerated Chemiluminescence Sensor Based on Platinized Carbon Nanotube-Zirconia-Nafion Composite Films. <i>Electroanalysis</i> , 2010, 22, 1349-1356.	2.9	12
41	Functionalized magnetic nanoparticle with poly(3-thiopheneacetic acid) and its application for electrogenerated chemiluminescence sensor. <i>Synthetic Metals</i> , 2009, 159, 571-575.	3.9	10
42	Electrogenerated Chemiluminescence Sensor Based on a Self-Assembled Monolayer of Ruthenium(II)-bis(2,2'-bipyridyl)(aminopropyl imidazole) on Gold Deposited Screen Printed Electrode. <i>Electroanalysis</i> , 2011, 23, 2131-2138.	2.9	9
43	Electrochemical Determination of Dopamine Based on Carbon Nanotube-Sol-Gel Titania-Nafion Composite Film Modified Electrode. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 3123-3127.	1.9	9
44	Highly electrochemiluminescent Ru(II) complexes containing 1,3-dihydro-1,1,3,3-tetramethyl-7,8-diazacycloocta[1]phenanthren-2-one ligand. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2002-2008.	1.8	8
45	Synthesis and properties of electrochemiluminescent dinuclear Ru(II) complexes assembled with ester-bridged bis(bipyridine) ligands. <i>Inorganica Chimica Acta</i> , 2009, 362, 1577-1584.	2.4	8
46	Determination of phenothiazine drugs using tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence at DNA-modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 258-263.	3.8	8
47	Metabolite profiling of sex developmental steroid conjugates reveals an association between decreased levels of steroid sulfates and adiposity in obese girls. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 162, 100-109.	2.5	8
48	Electrochemical Determination of Bisphenol A by Single-Walled Carbon Nanotube Composite Glassy Carbon Electrode. <i>Analytical Letters</i> , 2016, 49, 2018-2030.	1.8	8
49	Mesoporous Platinum Electrodes for Amperometric Determination of Sugars with Anion Exchange Chromatography. <i>Analytical Sciences</i> , 2010, 26, 995-1000.	1.6	7
50	Electrochemiluminescent dinuclear Ru(II) complexes assembled with 1,1'-(1,2-ethyenediyl)- or dimethylene-bridged bis(bipyridine) ligands: Synthesis and photophysical and electrochemical properties. <i>Inorganica Chimica Acta</i> , 2013, 395, 145-150.	2.4	7
51	Cyclic voltammetric studies of carbohydrate-protein interactions on gold surface. <i>Electrochemistry Communications</i> , 2015, 58, 69-72.	4.7	7
52	Electrogenerated chemiluminescence from newly synthesized $\lambda^2$ -diimine-ligated heteroleptic iridium(III) complexes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 83-90.	3.8	6
53	Electrogenerated chemiluminescence of lucigenin at mesoporous platinum electrode and its biosensing application to superoxide dismutase. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 59-64.	3.8	5
54	Near-infrared electrogenerated chemiluminescence of Au <sub>22</sub> (glutathione) <sub>18</sub> nanoclusters in aqueous solution and its analytical application. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114851.	3.8	5

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55	Highly sensitive determination of capsaicin with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence. <i>Journal of Electroanalytical Chemistry</i> , 2022, 910, 116169.	3.8	5
56	Serum levels of cholesterol, pregnenolone, DHEA, and their sulfate conjugates based on sex and pubertal stage in adolescents. <i>Clinica Chimica Acta</i> , 2016, 461, 47-52.	1.1	4
57	Label-free impedimetric glycosensor based on $\beta$ -galactose-functionalized gold electrode for the determination of cholera toxin. <i>Journal of Electroanalytical Chemistry</i> , 2017, 806, 123-129.	3.8	4
58	Highly Sensitive Determination of Concanavalin A Lectin Based on Silver-Enhanced Electrogenerated Chemiluminescence of Luminol. <i>Analytical Letters</i> , 2018, 51, 2114-2127.	1.8	3
59	Electrogenerated chemiluminescence of luminol on a gold nanocluster-graphene-Nafion composite-modified electrode in neutral aqueous solution. <i>Journal of Electroanalytical Chemistry</i> , 2021, 881, 114947.	3.8	3
60	Ru(II) complexes containing dihydro-1,1,3,3-tetramethyl-7,8-diazacyclopenta[1]phenanthren-2-ol ligand: Synthesis and their electrochemiluminescent characteristics. <i>Synthetic Metals</i> , 2006, 156, 885-892.	3.9	2
61	Sensing Estrogen with Electrochemical Impedance Spectroscopy. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-6.	1.6	2
62	Highly sensitive impedimetric glycosensor for the determination of a ricin surrogate, Ricinus communis agglutinin I (RCA120). <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113735.	3.8	1
63	A Highly Sensitive Amperometric Galactose Biosensor Based on Graphene-doped Sol-gel-derived Titania-Nafion Composite Films. <i>Electroanalysis</i> , 0, , .	2.9	1
64	Impedimetric detection of galactose based on a galactose-binding lectin, Ricinus communis agglutinin I (RCA120). <i>Journal of Electroanalytical Chemistry</i> , 2021, 903, 115846.	3.8	1
65	Liquid Chromatography-Mass Spectrometry-Based In Vitro Metabolic Profiling Reveals Altered Enzyme Expressions in Eicosanoid Metabolism. <i>Annals of Laboratory Medicine</i> , 2016, 36, 342-352.	2.5	0
66	One-Step Fabrication of Highly Sensitive Tris(2,2'-bipyridyl)ruthenium(II) Electrogenerated Chemiluminescence Sensor Based on Graphene-Titania-Nafion Composite Film. <i>Sensors</i> , 2022, 22, 3064.	3.8	0