Ik-Soo Shin

List of Publications by Year
in descending order

61	1,686	394421	289244
papers	citations	19 h-index	40 g-index

63	63	63	2356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient Electrogenerated Chemiluminescence from Cyclometalated Iridium(III) Complexes. Journal of the American Chemical Society, 2005, 127, 1614-1615.	13.7	310
2	Fluorescence Turn-On Sensor for Cyanide Based on a Cobalt(II)â^'Coumarinylsalen Complex. Organic Letters, 2010, 12, 764-767.	4.6	225
3	Color Tuning of Cyclometalated Iridium Complexes through Modification of Phenylpyrazole Derivatives and Ancillary Ligand Based on ab Initio Calculations. Organometallics, 2005, 24, 1578-1585.	2.3	138
4	Efficient Electrogenerated Chemiluminescence from Bis-Cyclometalated Iridium(III) Complexes with Substituted 2-Phenylquinoline Ligands. Journal of Physical Chemistry C, 2007, 111, 2280-2286.	3.1	84
5	Electrogenerated Chemiluminescent Anion Sensing: Selective Recognition and Sensing of Pyrophosphate. Analytical Chemistry, 2010, 82, 8259-8265.	6.5	75
6	New Approach Toward Fast Response Lightâ€Emitting Electrochemical Cells Based on Neutral Iridium Complexes via Cation Transport. Advanced Functional Materials, 2009, 19, 711-717.	14.9	63
7	Detection of Kinase Activity Using Versatile Fluorescence Quencher Probes. Angewandte Chemie - International Edition, 2010, 49, 4919-4923.	13.8	53
8	Apparent pH sensitivity of solution-gated graphene transistors. Nanoscale, 2015, 7, 7540-7544.	5.6	41
9	Efficient Fluorescence â€œTurn-Onâ€•Sensing of Dissolved Oxygen by Electrochemical Switching. Analytical Chemistry, 2012, 84, 9163-9168.	6.5	35
10	Analytical detection of biological thiols in a microchip capillary channel. Biosensors and Bioelectronics, 2013, 40, 362-367.	10.1	33
11	Electrochemiluminescent chemodosimeter based on iridium(III) complex for point-of-care detection of homocysteine levels. Biosensors and Bioelectronics, 2017, 91, 497-503.	10.1	33
12	Potential-Dependent Electrochemiluminescence for Selective Molecular Sensing of Cyanide. Analytical Chemistry, 2020, 92, 6019-6025.	6.5	32
13	Homogeneous Electrochemical Assay for Protein Kinase Activity. Analytical Chemistry, 2014, 86, 10992-10995.	6.5	30
14	Electrochemiluminescent Chemosensors for Clinical Applications: A Review. Biochip Journal, 2019, 13, 203-216.	4.9	26
15	Highly sensitive detection of DNA by electrogenerated chemiluminescence amplification using dendritic Ru(bpy)32+-doped silica nanoparticles. Analyst, The, 2010, 135, 603.	3.5	25
16	Single Electron Transfer-Promoted Photochemical Reactions of Secondary N-Trimethylsilylmethyl-N-benzylamines Leading to Aminomethylation of Fullerene C₆₀. Journal of Organic Chemistry, 2016, 81, 2460-2473.	3.2	25
17	Efficient green-colored electrochemiluminescence from cyclometalated iridium(III) complex. Electrochimica Acta, 2011, 56, 6219-6223.	5.2	24
18	Implementation of high-performance electrochromic device based on all-solution-fabricated Prussian blue and tungsten trioxide thin film. Electrochimica Acta, 2020, 353, 136446.	5.2	23

#	Article	IF	Citations
19	Evaluation of electrogenerated chemiluminescence from a neutral Ir(iii) complex for quantitative analysis in flowing streams. Analyst, The, 2011, 136, 2151.	3.5	22
20	Diffusion controlled multilayer electrocatalysts via graphene oxide nanosheets of varying sizes. Nanoscale, 2018, 10, 16159-16168.	5.6	22
21	Nonvolatile floating gate organic memory device based on pentacene/CdSe quantum dot heterojuction. Applied Physics Letters, 2012, 100, .	3.3	19
22	Regenerative fluorescence â€œturn-onâ€•probe for biothiols through Cu(II)/Cu(I) redox conversion. Sensors and Actuators B: Chemical, 2016, 237, 256-261.	7.8	19
23	Microfluidic bead-based sensing platform for monitoring kinase activity. Biosensors and Bioelectronics, 2014, 57, 1-9.	10.1	18
24	Dynamic Interplay between Transport and Reaction Kinetics of Luminophores on the Operation of AC-Driven Electrochemiluminescence Devices. ACS Applied Materials & Interfaces, 2018, 10, 41562-41569.	8.0	18
25	Electrochemical Immunoassay Based on Indium Tin Oxide Activity Toward a Alkaline Phosphatase. Biochip Journal, 2019, 13, 387-393.	4.9	18
26	Fast-response light-emitting electrochemical cells based on neutral iridium(III) complex. Electrochemistry Communications, 2011, 13, 64-67.	4.7	17
27	Antioxidative metallic copper nanoparticles prepared by modified polyol method and their catalytic activities. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	17
28	Effect of CdSe nanoparticles in polymethylmethacrylate tunneling layer on the performance of nonvolatile organic memory device. Microelectronic Engineering, 2012, 98, 305-308.	2.4	15
29	Sensitivity Improvement in Electrochemical Immunoassays Using Antibody Immobilized Magnetic Nanoparticles with a Clean ITO Working Electrode. Biochip Journal, 2020, 14, 308-316.	4.9	14
30	Pulsed Driving Methods for Enhancing the Stability of Electrochemiluminescence Devices. ACS Photonics, 2018, 5, 3723-3730.	6.6	13
31	Stainless steel 304 needle electrode for precise glucose biosensor with high signal-to-noise ratio. Sensors and Actuators B: Chemical, 2021, 346, 130552.	7.8	12
32	Multielectrode Spectroscopy Enables Rapid and Sensitive Molecular Profiling of Extracellular Vesicles. ACS Central Science, 2022, 8, 110-117.	11.3	12
33	Kaleidoscopic fluorescent arrays for machine-learning-based point-of-care chemical sensing. Sensors and Actuators B: Chemical, 2021, 329, 129248.	7.8	11
34	Advanced method for fabrication of molecularly imprinted mesoporous organosilica with highly sensitive and selective recognition of glyphosate. Scientific Reports, 2019, 9, 10293.	3.3	10
35	Electrochemiluminescent â€œturn-onâ€•chemosensor based on the selective recognition binding kinetics with glutathione. Sensors and Actuators B: Chemical, 2022, 357, 131408.	7.8	10
36	Efficient blue phosphorescent host through nonbonded conformational locking interactions. New Journal of Chemistry, 2008, 32, 1368.	2.8	9

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37	Fluorescent chemosensor for biological zinc ions. Supramolecular Chemistry, 2013, 25, 2-6.	1.2	9
38	Gold Nanoparticle Enhanced Electrochemical Assay for Protein Kinase Activity Using a Synthetic Chemosensor on a Microchip. Journal of the Electrochemical Society, 2015, 162, B89-B93.	2.9	9
39	Colorâ€Tunable Electrogenerated Chemiluminescence of Ruthenium Nâ€Heterocyclic Carbene Complexes. Electroanalysis, 2013, 25, 1111-1115.	2.9	8
40	An Electrochemical Assay for Restriction Endonuclease Activity Using Graphene Monolayer. Journal of the Electrochemical Society, 2014, 161, B261-B264.	2.9	8
41	Paper Stripâ€based Fluorometric Determination of Cyanide with an Internal Reference. Bulletin of the Korean Chemical Society, 2016, 37, 1320-1325.	1.9	8
42	Electrodeposition of Zinc Oxide Nanowires as a Counter Electrode in Electrochromic Devices. Bulletin of the Korean Chemical Society, 2020, 41, 358-361.	1.9	8
43	Normalizing the Optical Signal Enables Robust Assays with Lateral Flow Biosensors. ACS Omega, 2022, 7, 17723-17731.	3.5	8
44	Homogeneous Electrochemical Assay for Realâ€time Monitoring of Exonuclease III Activity Based on a Graphene Monolayer. Electroanalysis, 2017, 29, 1749-1754.	2.9	7
45	Tunable Electrochemical Grafting of Diazonium for Highly Sensitive Impedimetric DNA Sensor. Journal of the Electrochemical Society, 2020, 167, 087504.	2.9	7
46	Data on characterization and electrochemical analysis of zinc oxide and tungsten trioxide as counter electrodes for electrochromic devices. Data in Brief, 2020, 31, 105891.	1.0	7
47	Rhodium Complex and Enzyme Couple Mediated Electrochemical Detection of Adenosine. Applied Biochemistry and Biotechnology, 2015, 177, 812-820.	2.9	6
48	Electroimmobilization of DNA for ultrafast detection on a microchannel integrated pentacene TFT. Journal of Industrial and Engineering Chemistry, 2015, 21, 126-128.	5.8	6
49	Electrostatic Modification for Promotion of Flavinâ€Mediated Oxidation of a Probe for Flavin Detection. Chemistry - A European Journal, 2017, 23, 16078-16084.	3.3	5
50	Highly efficient low-oxidation-potential electrochemiluminescence of ruthenium(II) complex containing selone moiety. Inorganic Chemistry Communication, 2019, 106, 86-90.	3.9	5
51	Real-time monitoring of S-adenosyl-l-homocysteine hydrolase using a chemodosimetric fluorescence â€œturn-onâ€•sensor. Sensors and Actuators B: Chemical, 2013, 185, 663-668.	7.8	4
52	Screening and electrochemical detection of an antibiotic producing gene in bacteria on an integrated microchip. Analytical Methods, 2013, 5, 6814.	2.7	4
53	A Guide for Realizing Efficient Polymer Lightâ€Emitting Electrochemical Cells in a Single Active Layer Device Structure. ChemElectroChem, 2020, 7, 260-265.	3.4	4
54	Postâ€Synthetic Modification of Mesoporous Zincâ€Adeninate Framework with Tris(2,2â€²â€bipyridine) Ruthenium(II) Complex and its Electrochemiluminescence. Bulletin of the Korean Chemical Society, 2017, 38, 471-476.	1.9	3

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55	Diffusion and Kineticâ€Controlled Electrochemical Reactions for Improving the Performance of Solutionâ€based Electrochemiluminescence Devices. Bulletin of the Korean Chemical Society, 2020, 41, 362-365.	1.9	2
56	Fabrication and Characterization Nano Porous Anodic ZrO2Membranes by Two-Step Anodizing. Journal of the Korean Chemical Society, 2013, 57, 547-553.	0.2	2
57	New Highly Stable Ionic Compounds Composed of Multivalent Graphene Quantum Dot Anions and Alkali Metal Cations. Batteries and Supercaps, 2022, 5, .	4.7	2
58	Electrocatalytic Determination of Ascorbic Acid Using Zincâ€Adeninate Metalâ€“Organic Framework. Bulletin of the Korean Chemical Society, 2015, 36, 2363-2366.	1.9	1
59	Electroanalytical Investigation of 2,2â€²,7,7â€²â€Tetrakis(diphenylamino)â€9,9â€²â€spirobifluorene. Bulletin of the Korean Chemical Society, 2016, 37, 685-688.	1.9	0
60	Low Mass Ions in Laser Desorption/Ionization Mass Spectrometry of 1â€Methoxyâ€5â€aminotetrazole. Bulletin of the Korean Chemical Society, 2016, 37, 99-102.	1.9	0
61	Estimation of Energetic and Charge Transfer Properties of Iridium(III) Bis(2-phenylpyridinato-<italic>N,C</italic>2â€™)acetylacetonate by Electrochemical Methods. Journal of Electrochemical Science and Technology, 2017, 8, 96-100.	2.2	0