

Ik-Soo Shin

List of Publications by Year in descending order

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61
papers

1,686
citations

394421

19
h-index

289244

40
g-index

63
all docs

63
docs citations

63
times ranked

2356
citing authors

#	ARTICLE	IF	CITATIONS
1	Multielectrode Spectroscopy Enables Rapid and Sensitive Molecular Profiling of Extracellular Vesicles. <i>ACS Central Science</i> , 2022, 8, 110-117.	11.3	12
2	Electrochemiluminescent "turn-on" chemosensor based on the selective recognition binding kinetics with glutathione. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131408.	7.8	10
3	New Highly Stable Ionic Compounds Composed of Multivalent Graphene Quantum Dot Anions and Alkali Metal Cations. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	2
4	Normalizing the Optical Signal Enables Robust Assays with Lateral Flow Biosensors. <i>ACS Omega</i> , 2022, 7, 17723-17731.	3.5	8
5	Kaleidoscopic fluorescent arrays for machine-learning-based point-of-care chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129248.	7.8	11
6	Stainless steel 304 needle electrode for precise glucose biosensor with high signal-to-noise ratio. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130552.	7.8	12
7	A Guide for Realizing Efficient Polymer Light-Emitting Electrochemical Cells in a Single Active Layer Device Structure. <i>ChemElectroChem</i> , 2020, 7, 260-265.	3.4	4
8	Sensitivity Improvement in Electrochemical Immunoassays Using Antibody Immobilized Magnetic Nanoparticles with a Clean ITO Working Electrode. <i>Biochip Journal</i> , 2020, 14, 308-316.	4.9	14
9	Tunable Electrochemical Grafting of Diazonium for Highly Sensitive Impedimetric DNA Sensor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 087504.	2.9	7
10	Data on characterization and electrochemical analysis of zinc oxide and tungsten trioxide as counter electrodes for electrochromic devices. <i>Data in Brief</i> , 2020, 31, 105891.	1.0	7
11	Antioxidative metallic copper nanoparticles prepared by modified polyol method and their catalytic activities. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	17
12	Diffusion and Kinetic-Controlled Electrochemical Reactions for Improving the Performance of Solution-based Electrochemiluminescence Devices. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 362-365.	1.9	2
13	Electrodeposition of Zinc Oxide Nanowires as a Counter Electrode in Electrochromic Devices. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 358-361.	1.9	8
14	Potential-Dependent Electrochemiluminescence for Selective Molecular Sensing of Cyanide. <i>Analytical Chemistry</i> , 2020, 92, 6019-6025.	6.5	32
15	Implementation of high-performance electrochromic device based on all-solution-fabricated Prussian blue and tungsten trioxide thin film. <i>Electrochimica Acta</i> , 2020, 353, 136446.	5.2	23
16	Highly efficient low-oxidation-potential electrochemiluminescence of ruthenium(II) complex containing selone moiety. <i>Inorganic Chemistry Communication</i> , 2019, 106, 86-90.	3.9	5
17	Advanced method for fabrication of molecularly imprinted mesoporous organosilica with highly sensitive and selective recognition of glyphosate. <i>Scientific Reports</i> , 2019, 9, 10293.	3.3	10
18	Electrochemiluminescent Chemosensors for Clinical Applications: A Review. <i>Biochip Journal</i> , 2019, 13, 203-216.	4.9	26

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19	Electrochemical Immunoassay Based on Indium Tin Oxide Activity Toward a Alkaline Phosphatase. <i>Biochip Journal</i> , 2019, 13, 387-393.	4.9	18
20	Dynamic Interplay between Transport and Reaction Kinetics of Luminophores on the Operation of AC-Driven Electrochemiluminescence Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41562-41569.	8.0	18
21	Pulsed Driving Methods for Enhancing the Stability of Electrochemiluminescence Devices. <i>ACS Photonics</i> , 2018, 5, 3723-3730.	6.6	13
22	Diffusion controlled multilayer electrocatalysts <i>via</i> graphene oxide nanosheets of varying sizes. <i>Nanoscale</i> , 2018, 10, 16159-16168.	5.6	22
23	Electrochemiluminescent chemodosimeter based on iridium(III) complex for point-of-care detection of homocysteine levels. <i>Biosensors and Bioelectronics</i> , 2017, 91, 497-503.	10.1	33
24	Homogeneous Electrochemical Assay for Real-time Monitoring of Exonuclease III Activity Based on a Graphene Monolayer. <i>Electroanalysis</i> , 2017, 29, 1749-1754.	2.9	7
25	Post-Synthetic Modification of Mesoporous Zinc-Adeninate Framework with Tris(2,2'-bipyridine) Ruthenium(II) Complex and its Electrochemiluminescence. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 471-476.	1.9	3
26	Electrostatic Modification for Promotion of Flavin-Mediated Oxidation of a Probe for Flavin Detection. <i>Chemistry - A European Journal</i> , 2017, 23, 16078-16084.	3.3	5
27	Estimation of Energetic and Charge Transfer Properties of Iridium(III) Bis(2-phenylpyridinato- π -N,C TM)acetylacetonate by Electrochemical Methods. <i>Journal of Electrochemical Science and Technology</i> , 2017, 8, 96-100.	2.2	0
28	Electroanalytical Investigation of 2,2',7,7'-Tetrakis(diphenylamino)-9,9'-spirobifluorene. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 685-688.	1.9	0
29	Paper Strip-based Fluorometric Determination of Cyanide with an Internal Reference. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1320-1325.	1.9	8
30	Low Mass Ions in Laser Desorption/Ionization Mass Spectrometry of 1-Methoxy-5-aminotetrazole. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 99-102.	1.9	0
31	Regenerative fluorescence "turn-on" probe for biothiols through Cu(II)/Cu(I) redox conversion. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 256-261.	7.8	19
32	Single Electron Transfer-Promoted Photochemical Reactions of Secondary <i>N</i> -Trimethylsilylmethyl- <i>N</i> -benzylamines Leading to Aminomethylation of Fullerene C ₆₀ . <i>Journal of Organic Chemistry</i> , 2016, 81, 2460-2473.	3.2	25
33	Electrocatalytic Determination of Ascorbic Acid Using Zinc-Adeninate Metal-Organic Framework. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2363-2366.	1.9	1
34	Gold Nanoparticle Enhanced Electrochemical Assay for Protein Kinase Activity Using a Synthetic Chemosensor on a Microchip. <i>Journal of the Electrochemical Society</i> , 2015, 162, B89-B93.	2.9	9
35	Apparent pH sensitivity of solution-gated graphene transistors. <i>Nanoscale</i> , 2015, 7, 7540-7544.	5.6	41
36	Rhodium Complex and Enzyme Couple Mediated Electrochemical Detection of Adenosine. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 812-820.	2.9	6

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37	Electroimmobilization of DNA for ultrafast detection on a microchannel integrated pentacene TFT. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 126-128.	5.8	6
38	An Electrochemical Assay for Restriction Endonuclease Activity Using Graphene Monolayer. <i>Journal of the Electrochemical Society</i> , 2014, 161, B261-B264.	2.9	8
39	Homogeneous Electrochemical Assay for Protein Kinase Activity. <i>Analytical Chemistry</i> , 2014, 86, 10992-10995.	6.5	30
40	Microfluidic bead-based sensing platform for monitoring kinase activity. <i>Biosensors and Bioelectronics</i> , 2014, 57, 1-9.	10.1	18
41	Color-tunable Electrogenerated Chemiluminescence of Ruthenium π -Heterocyclic Carbene Complexes. <i>Electroanalysis</i> , 2013, 25, 1111-1115.	2.9	8
42	Real-time monitoring of S-adenosyl-L-homocysteine hydrolase using a chemodosimetric fluorescence turn-on sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 663-668.	7.8	4
43	Fluorescent chemosensor for biological zinc ions. <i>Supramolecular Chemistry</i> , 2013, 25, 2-6.	1.2	9
44	Analytical detection of biological thiols in a microchip capillary channel. <i>Biosensors and Bioelectronics</i> , 2013, 40, 362-367.	10.1	33
45	Screening and electrochemical detection of an antibiotic producing gene in bacteria on an integrated microchip. <i>Analytical Methods</i> , 2013, 5, 6814.	2.7	4
46	Fabrication and Characterization Nano Porous Anodic ZrO ₂ Membranes by Two-Step Anodizing. <i>Journal of the Korean Chemical Society</i> , 2013, 57, 547-553.	0.2	2
47	Nonvolatile floating gate organic memory device based on pentacene/CdSe quantum dot heterojunction. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	19
48	Effect of CdSe nanoparticles in polymethylmethacrylate tunneling layer on the performance of nonvolatile organic memory device. <i>Microelectronic Engineering</i> , 2012, 98, 305-308.	2.4	15
49	Efficient Fluorescence Turn-On Sensing of Dissolved Oxygen by Electrochemical Switching. <i>Analytical Chemistry</i> , 2012, 84, 9163-9168.	6.5	35
50	Evaluation of electrogenerated chemiluminescence from a neutral Ir(III) complex for quantitative analysis in flowing streams. <i>Analyst</i> , 2011, 136, 2151.	3.5	22
51	Fast-response light-emitting electrochemical cells based on neutral iridium(III) complex. <i>Electrochemistry Communications</i> , 2011, 13, 64-67.	4.7	17
52	Efficient green-colored electrochemiluminescence from cyclometalated iridium(III) complex. <i>Electrochimica Acta</i> , 2011, 56, 6219-6223.	5.2	24
53	Detection of Kinase Activity Using Versatile Fluorescence Quencher Probes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4919-4923.	13.8	53
54	Fluorescence Turn-On Sensor for Cyanide Based on a Cobalt(II)-Coumarinylsalen Complex. <i>Organic Letters</i> , 2010, 12, 764-767.	4.6	225

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55	Electrogenerated Chemiluminescent Anion Sensing: Selective Recognition and Sensing of Pyrophosphate. <i>Analytical Chemistry</i> , 2010, 82, 8259-8265.	6.5	75
56	Highly sensitive detection of DNA by electrogenerated chemiluminescence amplification using dendritic Ru(bpy) ₃ ²⁺ -doped silica nanoparticles. <i>Analyst, The</i> , 2010, 135, 603.	3.5	25
57	New Approach Toward Fast Response Light-Emitting Electrochemical Cells Based on Neutral Iridium Complexes via Cation Transport. <i>Advanced Functional Materials</i> , 2009, 19, 711-717.	14.9	63
58	Efficient blue phosphorescent host through nonbonded conformational locking interactions. <i>New Journal of Chemistry</i> , 2008, 32, 1368.	2.8	9
59	Efficient Electrogenerated Chemiluminescence from Bis-Cyclometalated Iridium(III) Complexes with Substituted 2-Phenylquinoline Ligands. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2280-2286.	3.1	84
60	Color Tuning of Cyclometalated Iridium Complexes through Modification of Phenylpyrazole Derivatives and Ancillary Ligand Based on ab Initio Calculations. <i>Organometallics</i> , 2005, 24, 1578-1585.	2.3	138
61	Efficient Electrogenerated Chemiluminescence from Cyclometalated Iridium(III) Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 1614-1615.	13.7	310