

Ryoichi Ishimatsu

List of Publications by Year in descending order

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63
papers

1,504
citations

304743

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315739

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64
all docs

64
docs citations

64
times ranked

1627
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent Effect on Thermally Activated Delayed Fluorescence by 1,2,3,5-Tetrakis(carbazol-9-yl)-4,6-dicyanobenzene. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5607-5612.	2.5	173
2	Electrogenerated Chemiluminescence of Donor–Acceptor Molecules with Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6993-6996.	13.8	132
3	Quantitative Imaging of Ion Transport through Single Nanopores by High-Resolution Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2012, 134, 9856-9859.	13.7	83
4	Ion-Selective Permeability of an Ultrathin Nanoporous Silicon Membrane as Probed by Scanning Electrochemical Microscopy Using Micropipet-Supported ITIES Tips. <i>Analytical Chemistry</i> , 2010, 82, 7127-7134.	6.5	68
5	Multi-color microfluidic organic light-emitting diodes based on on-demand emitting layers of pyrene-based liquid organic semiconductors with fluorescent guest dopants. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 481-489.	7.8	60
6	Subnanomolar Ion Detection by Stripping Voltammetry with Solid-Supported Thin Polymeric Membrane. <i>Analytical Chemistry</i> , 2009, 81, 7262-7270.	6.5	57
7	Electrochemical Mechanism of Ion–Ionophore Recognition at Plasticized Polymer Membrane/Water Interfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 16300-16308.	13.7	57
8	Electrochemical heparin sensing at liquid/liquid interfaces and polymeric membranes. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 571-579.	3.7	55
9	Electrochemical sensing and imaging based on ion transfer at liquid/liquid interfaces. <i>Electrochimica Acta</i> , 2013, 110, 836-845.	5.2	52
10	Ultraslow Response of Interfacial Tension to the Change in the Phase-Boundary Potential at the Interface between Water and a Room-Temperature Ionic Liquid, Trioctylmethylammonium bis(nonafluorobutanesulfonyl)amide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3273-3276.	2.6	47
11	Photophysical Properties and Efficient, Stable, Electrogenerated Chemiluminescence of Donor–Acceptor Molecules Exhibiting Thermal Spin Upconversion. <i>Chemistry - A European Journal</i> , 2016, 22, 4889-4898.	3.3	45
12	Microfluidic White Organic Light-Emitting Diode Based on Integrated Patterns of Greenish-Blue and Yellow Solvent-Free Liquid Emitters. <i>Scientific Reports</i> , 2015, 5, 14822.	3.3	42
13	Ion Permeability of the Nuclear Pore Complex and Ion-Induced Macromolecular Permeation as Studied by Scanning Electrochemical and Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2014, 86, 2090-2098.	6.5	41
14	A simple and selective fluorometric assay for dopamine using a calcein blue–Fe ²⁺ complex fluorophore. <i>Talanta</i> , 2012, 94, 36-43.	5.5	38
15	Multi-color microfluidic electrochemiluminescence cells. <i>Sensors and Actuators A: Physical</i> , 2014, 214, 225-229.	4.1	38
16	Subnanomolar Detection Limit of Stripping Voltammetric Ca ²⁺ -Selective Electrode: Effects of Analyte Charge and Sample Contamination. <i>Analytical Chemistry</i> , 2014, 86, 7939-7946.	6.5	36
17	Efficient Electrogenerated Chemiluminescence of Pyrrolopyrrole Aza-BODIPYs in the Near-Infrared Region with Tripropylamine: Involving Formation of S ₂ and T ₂ States. <i>Journal of the American Chemical Society</i> , 2019, 141, 11791-11795.	13.7	34
18	Structure of the Electrical Double Layer on the Aqueous Solution Side of the Polarized Interface between Water and a Room-Temperature Ionic Liquid, Tetrahexylammonium Bis(trifluoromethylsulfonyl)imide. <i>Langmuir</i> , 2007, 23, 925-929.	3.5	29

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19	Performance of an organic photodiode as an optical detector and its application to fluorometric flow-immunoassay for IgA. <i>Talanta</i> , 2012, 96, 132-139.	5.5	29
20	An Electrochemical Compact Disk-type Microfluidics Platform for Use as an Enzymatic Biosensor. <i>Electroanalysis</i> , 2015, 27, 703-712.	2.9	25
21	A wide-energy-gap naphthalene-based liquid organic semiconductor host for liquid deep-blue organic light-emitting diodes. <i>Journal of Luminescence</i> , 2018, 200, 19-23.	3.1	25
22	Interfacial Ion Pairing at the Interface between Water and a Room-Temperature Ionic Liquid, N-Tetradecylisoquinolinium Bis(pentafluoroethylsulfonyl)imide. <i>Langmuir</i> , 2007, 23, 7608-7611.	3.5	22
23	Photometric flow injection determination of phosphate on a PDMS microchip using an optical detection system assembled with an organic light emitting diode and an organic photodiode. <i>Talanta</i> , 2015, 132, 96-105.	5.5	22
24	An organic thin film photodiode as a portable photodetector for the detection of alkylphenol polyethoxylates by a flow fluorescence-immunoassay on magnetic microbeads in a microchannel. <i>Talanta</i> , 2013, 117, 139-145.	5.5	20
25	Orientation of 1-Dodecyl-4-phenylpyridinium Ions Constituting an Ionic Liquid at the Ionic Liquid Water Interface Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12461-12466.	3.1	19
26	Fluorometric flow-immunoassay for alkylphenol polyethoxylates on a microchip containing a fluorescence detector comprised of an organic light emitting diode and an organic photodiode. <i>Talanta</i> , 2015, 134, 37-47.	5.5	19
27	Phase Transition of a Binary Room-Temperature Ionic Liquid Composed of Bis(pentafluoroethanesulfonyl)amide Salts of Tetraheptylammonium and N-Tetradecylisoquinolinium and Its Surface Properties at the Ionic Liquid Water Interface. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9321-9325.	2.6	18
28	Quenching Behavior of Thermally Activated Delayed Fluorescence from a Donor-Acceptor Molecule, 1,2,3,5-Tetrakis(carbazol-9-yl)-4,6-dicyanobenzene by O ₂ . <i>Chemistry Letters</i> , 2016, 45, 1183-1185.	1.3	18
29	Wide Polarized Potential Windows at the Interface between Water and an Ionic Liquid, Tetraheptylammonium Tetrakis[3,5-bis(trifluoromethyl)phenyl]borate. <i>Chemistry Letters</i> , 2007, 36, 1166-1167.	1.3	15
30	Color-tunable microfluidic electrogenerated chemiluminescence cells using Y-shaped micromixer. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 128001.	1.5	13
31	Flow-Injection Spectrophotometric Determination of Cysteine in Biologically Active Dietary Supplements. <i>Journal of Analytical Chemistry</i> , 2016, 71, 172-178.	0.9	12
32	Determination of curcumin in biologically active supplements and food spices using a mesofluidic platform with fluorescence detection. <i>Talanta</i> , 2016, 159, 300-306.	5.5	12
33	Automated chemiluminescence immunoassay for a nonionic surfactant using a recycled spinning-pausing controlled washing procedure on a compact disc-type microfluidic platform. <i>Talanta</i> , 2015, 133, 100-106.	5.5	11
34	Carbon Quantum Dots as Fluorescent Component in Peroxyoxalate Chemiluminescence for Hydrogen Peroxide Determination. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1128-1130.	3.2	11
35	Electrogenerated Chemiluminescence of a BODIPY Derivative with Extended Conjugation. <i>ChemistrySelect</i> , 2017, 2, 10531-10536.	1.5	10
36	White electrogenerated chemiluminescence using an anthracene derivative host and fluorescent dopants for microfluidic self-emissive displays. <i>Sensors and Actuators A: Physical</i> , 2020, 306, 111966.	4.1	9

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37	Electrogenerated Chemiluminescence and Electronic States of Several Organometallic Eu(III) and Tb(III) Complexes: Effects of the Ligands. <i>ChemistrySelect</i> , 2019, 4, 2815-2831.	1.5	8
38	Kinetics of Excimer Electrogenerated Chemiluminescence of Pyrene and 1-Pyrenebutyricacid 2-Ethylhexylester in Acetonitrile and an Ionic Liquid, Triethylpentylphosphonium Bis(trifluoromethanesulfonyl)imide. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10825-10836.	2.6	7
39	Fabrication of microfluidic electrogenerated chemiluminescence cells incorporated with titanium dioxide nanoparticles to improve luminescent performances. <i>Applied Physics Express</i> , 2020, 13, 107001.	2.4	7
40	Microfluidic electrogenerated chemiluminescence cells using aluminum-doped zinc oxide nanoparticles as an electron injection layer. <i>Sensors and Actuators A: Physical</i> , 2022, 334, 113329.	4.1	7
41	Totally synthetic microperoxidase-11. <i>Royal Society Open Science</i> , 2018, 5, 172311.	2.4	6
42	Enzyme-linked immunosorbent assay based on light absorption of enzymatically generated aniline oligomer: Flow injection analysis for 3-phenoxybenzoic acid with anti-3-phenoxybenzoic acid monoclonal antibody. <i>Talanta</i> , 2020, 218, 121102.	5.5	6
43	Chemiluminescence immunoassay for a nonionic surfactant using a compact disc-type microfluidic platform. <i>Pure and Applied Chemistry</i> , 2012, 84, 2027-2043.	1.9	4
44	Sky-blue electrogenerated chemiluminescence using anthracene derivatives as host and guest molecules. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 060903.	1.5	4
45	A Pivot-Hinge-Style DNA Immobilization Method with Adaptable Surface Concentration Based on Oligodeoxynucleotide-Phosphorothioate Chemisorption on Gold Surfaces. <i>Analytical Sciences</i> , 2012, 28, 1059-1064.	1.6	3
46	A Miniaturized Stepwise Injection Spectrophotometric Analyzer. <i>Analytical Sciences</i> , 2015, 31, 529-533.	1.6	3
47	Development of a Portable Surface Plasmon Resonance Sensor with Multi-Sensing Points Based on the Linear CCD Sensor. <i>Analytical Sciences</i> , 2016, 32, 673-679.	1.6	3
48	Microfluidic electrochemiluminescence (ECL) integrated flow cell for portable fluorescence detection. , 2014, , .		2
49	Potentiometric DNA sensing platform using redox-active DNA probe pair for sandwich-type dual hybridization at indicator electrode surface. <i>Journal of Electroanalytical Chemistry</i> , 2014, 720-721, 71-75.	3.8	2
50	Synthesis and Self-Assembly of His-tag Hybrid of Substrate-Binging Short Domain in Transient Receptor Potential Vanilloid Type 1 for Vanillin Sensing Application. <i>Transactions of the Materials Research Society of Japan</i> , 2015, 40, 175-178.	0.2	2
51	Deep-blue light emission with a wide-bandgap naphthalene-derivative liquid organic semiconductor host. , 2017, , .		1
52	Homogeneous Electron Transfer Reactions of Electrochemically Generated Species in Electrogenerated Chemiluminescence. <i>Review of Polarography</i> , 2018, 64, 3-10.	0.1	1
53	Electrogenerated Chemiluminescence of Tris(dibenzoylmethane)phenanthroline Europium(III) as a Light Source: An Application for the Detection of PO ₄ ³⁻ Based on the Ion Associate Formation of Phosphomolybdic Acid and Malachite Green. <i>Analytical Sciences</i> , 2019, 35, 799-802.	1.6	1
54	Compact and on-demand 3D-printed optical device based on silicone optical technology (SOT) for on-site measurement: Application to flow injection analysis. <i>Review of Scientific Instruments</i> , 2019, 90, 104103.	1.3	1

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55	Folding and Assembly of Vanilloid Receptor Secondary-Structure Peptide with Hexahistidine Linker at Nickelâ€“Nitrilotriacetic Acid Monolayer for Capsaicin Recognition. <i>Langmuir</i> , 2019, 35, 2047-2054.	3.5	1
56	Orange-Red Electrogenerated Chemiluminescence Cells Using Titanium Dioxide Nanoparticles Annealed at Different Temperatures. , 2022, , .		1
57	Red Microfluidic Electrogenerated Chemiluminescence Device Using Tetraphenyldibenzoperiflanthene as a Guest Molecule. , 2022, , .		1
58	Microfluidic white organic light-emitting diode based on striped fine microchannels for greenish blue and yellow liquid emitters. , 2015, , .		0
59	An Analytical Approach for Electrogenerated Chemiluminescence Based on the Electronic States of Light Emitting Materials. <i>Bunseki Kagaku</i> , 2018, 67, 661-672.	0.2	0
60	Portable Analytical Detection Systems Based on Light Emitting Devices. , 2019, , .		0
61	Covalent Hyperbranched Polymer Self-Assemblies of Three-Way Junction DNA for Single-Molecule Devices. <i>Langmuir</i> , 2020, 36, 10166-10174.	3.5	0
62	Green Microfluidic Electrogenerated Chemiluminescence Device Using 9,10-Diphenylanthracene as a Host Material. , 2022, , .		0
63	Microfluidic Electrogenerated Chemiluminescence Device Using a Wide-Energy-Gap Material. , 2022, , .		0