Yuki Hiruta

List of Publications by Year
in descending order

71	1,605	236925 25	330143 37
papers	citations	h-index	g-index

72	72	72	2067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Paperâ€Based Antibody Detection Devices Using Bioluminescent BRETâ€Switching Sensor Proteins. Angewandte Chemie - International Edition, 2018, 57, 15369-15373.	13.8	116
2	Temperature-Responsive Fluorescence Polymer Probes with Accurate Thermally Controlled Cellular Uptakes. ACS Macro Letters, 2014, 3, 281-285.	4.8	76
3	Fully inkjet-printed distance-based paper microfluidic devices for colorimetric calcium determination using ion-selective optodes. Analyst, The, 2019, 144, 1178-1186.	3.5	73
4	Near IR Emitting Red-Shifting Ratiometric Fluorophores Based on Borondipyrromethene. Organic Letters, 2015, 17, 3022-3025.	4.6	54
5	Metal-Free Colorimetric Detection of Pyrophosphate Ions by Inhibitive Nanozymatic Carbon Dots. ACS Sensors, 2020, 5, 1314-1324.	7.8	52
6	Thread-Based Bioluminescent Sensor for Detecting Multiple Antibodies in a Single Drop of Whole Blood. ACS Sensors, 2020, 5, 1786-1794.	7.8	52
7	Heat-Shielding and Self-Cleaning Smart Windows: Near-Infrared Reflective Photonic Crystals with Self-Healing Omniphobicity via Layer-by-Layer Self-Assembly. ACS Applied Materials & Interfaces, 2018, 10, 22731-22738.	8.0	50
8	The effects of anionic electrolytes and human serum albumin on the LCST of poly(N) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (-isop Biointerfaces, 2015, 132, 299-304.	5.0	49
9	Design of Environmentally Responsive Fluorescent Polymer Probes for Cellular Imaging. Biomacromolecules, 2015, 16, 2356-2362.	5.4	47
10	Bionic Fish-Scale Surface Structures Fabricated via Air/Water Interface for Flexible and Ultrasensitive Pressure Sensors. ACS Applied Materials & Interfaces, 2018, 10, 30689-30697.	8.0	46
11	Highly Durable Double Solâ€“Gel Layer Ratiometric Fluorescent pH Optode Based on the Combination of Two Types of Quantum Dots and Absorbing pH Indicators. Analytical Chemistry, 2012, 84, 10650-10656.	6.5	42
12	Paper-Based Device for Naked Eye Urinary Albumin/Creatinine Ratio Evaluation. ACS Sensors, 2020, 5, 1110-1118.	7.8	42
13	Protein purification using solid-phase extraction on temperature-responsive hydrogel-modified silica beads. Journal of Chromatography A, 2018, 1568, 38-48.	3.7	40
14	pH/temperature-responsive fluorescence polymer probe with pH-controlled cellular uptake. Sensors and Actuators B: Chemical, 2015, 207, 724-731.	7.8	34
15	Text-Displaying Semiquantitative Competitive Lateral Flow Immunoassay Relying on Inkjet-Printed Patterns. ACS Sensors, 2020, 5, 2076-2085.	7.8	34
16	Structural characteristics and optical properties of a series of solvatochromic fluorescent dyes displaying long-wavelength emission. Dyes and Pigments, 2009, 83, 198-206.	3.7	32
17	LAT1-Targeting Thermoresponsive Fluorescent Polymer Probes for Cancer Cell Imaging. International Journal of Molecular Sciences, 2018, 19, 1646.	4.1	32
18	Liposomes with temperature-responsive reversible surface properties. Colloids and Surfaces B: Biointerfaces, 2019, 176, 309-316.	5.0	32

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19	Temperature-responsive molecular recognition chromatography using phenylalanine and tryptophan derived polymer modified silica beads. Analyst, The, 2016, 141, 910-917.	3.5	31
20	Highly bright and stable NIR-BRET with blue-shifted coelenterazine derivatives for deep-tissue imaging of molecular events in vivo. Theranostics, 2019, 9, 2646-2661.	10.0	31
21	Ring-Fused Firefly Luciferins: Expanded Palette of Near-Infrared Emitting Bioluminescent Substrates. Analytical Chemistry, 2020, 92, 4235-4243.	6.5	31
22	A highly Li+-selective glass optode based on fluorescence ratiometry. Analyst, The, 2009, 134, 2314.	3.5	29
23	Near-Infrared Fluorescent Probes for Imaging of Intracellular Mg²⁺ and Application to Multi-Color Imaging of Mg²⁺, ATP, and Mitochondrial Membrane Potential. Analytical Chemistry, 2020, 92, 966-974.	6.5	29
24	Microfluidic Paper-Based Analytical Devices for Colorimetric Detection of Lactoferrin. SLAS Technology, 2020, 25, 47-57.	1.9	28
25	Dual temperature- and pH-responsive polymeric micelle for selective and efficient two-step doxorubicin delivery. RSC Advances, 2017, 7, 29540-29549.	3.6	26
26	Disposable electrochemical biosensor based on surface-modified screen-printed electrodes for organophosphorus pesticide analysis. Analytical Methods, 2019, 11, 3439-3445.	2.7	25
27	Centrifugal Paperfluidic Platform for Accelerated Distance-Based Colorimetric Signal Readout. Analytical Chemistry, 2020, 92, 4749-4754.	6.5	23
28	Reversible conformational changes in the parallel type G-quadruplex structure inside a thermoresponsive hydrogel. Chemical Communications, 2017, 53, 3142-3144.	4.1	22
29	Slippery Liquid-Immobilized Coating Films Using in Situ Oxidationâ€“Reduction Reactions of Metal Ions in Polyelectrolyte Films. ACS Applied Materials & Interfaces, 2017, 9, 15122-15129.	8.0	22
30	Highly Sensitive Bioluminescent Probe for Thiol Detection in Living Cells. Chemistry - an Asian Journal, 2018, 13, 648-655.	3.3	22
31	Temperature-responsive Solid-phase Extraction Column for Biological Sample Pretreatment. Analytical Sciences, 2015, 31, 881-886.	1.6	20
32	Ultrasensitive Detection of Methylmercaptan Gas Using Layered Manganese Oxide Nanosheets with a Quartz Crystal Microbalance Sensor. Analytical Chemistry, 2017, 89, 12123-12130.	6.5	20
33	Effects of terminal group and chain length on temperature-responsive chromatography utilizing poly(N-isopropylacrylamide) synthesized via RAFT polymerization. RSC Advances, 2015, 5, 73217-73224.	3.6	19
34	Biothiol-Activatable Bioluminescent Coelenterazine Derivative for Molecular Imaging in Vitro and in Vivo. Analytical Chemistry, 2019, 91, 9546-9553.	6.5	19
35	Silver Ion Polyelectrolyte Container as a Sensitive Quartz Crystal Microbalance Gas Detector. Analytical Chemistry, 2016, 88, 10744-10750.	6.5	18
36	All-printed semiquantitative paper-based analytical devices relying on QR code array readout. Analyst, The, 2020, 145, 6071-6078.	3.5	18

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37	Paperâ€Based Antibody Detection Devices Using Bioluminescent BRETâ€Switching Sensor Proteins. Angewandte Chemie, 2018, 130, 15595-15599.	2.0	17
38	Design and synthesis of temperature-responsive polymer/silica hybrid nanoparticles and application to thermally controlled cellular uptake. Colloids and Surfaces B: Biointerfaces, 2017, 153, 2-9.	5.0	16
39	Flow Control-based 3D Î¼PADs for Organophosphate Pesticide Detection. Analytical Sciences, 2019, 35, 393-399.	1.6	16
40	Adsorptionâ€“Desorption Control of Fibronectin in Real Time at the Liquid/Polymer Interface on a Quartz Crystal Microbalance by Thermoresponsivity. Biomacromolecules, 2019, 20, 1748-1755.	5.4	15
41	Anion species-triggered antibody separation system utilizing a thermo-responsive polymer column under optimized constant temperature. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111890.	5.0	15
42	Microfluidic thread-based analytical devices for point-of-care detection of therapeutic antibody in blood. Sensors and Actuators B: Chemical, 2022, 352, 131002.	7.8	15
43	The use of a temperature-responsive column for the direct analysis of drugs in serum by two-dimensional heart-cutting liquid chromatography. Analytical and Bioanalytical Chemistry, 2017, 409, 1059-1065.	3.7	13
44	Inkjet-printed pH-independent paper-based calcium sensor with fluorescence signal readout relying on a solvatochromic dye. Analytical and Bioanalytical Chemistry, 2020, 412, 3489-3497.	3.7	13
45	Colorimetric paper-based sarcosine assay with improved sensitivity. Analytical and Bioanalytical Chemistry, 2022, 414, 691-701.	3.7	13
46	A Fast-Response pH Optode Based on a Fluoroionophore Immobilized to a Mesoporous Silica Thin Film. Analytical Sciences, 2010, 26, 297-301.	1.6	12
47	Analysis of Psychoactive Drugs by Temperature-Responsive Chromatography. Chromatography, 2017, 38, 115-121.	1.7	12
48	Paper-Based Assay for Ascorbic Acid Based on the Formation of Ag Nanoparticles in Layer-by-Layer Multilayers. ACS Applied Nano Materials, 2019, 2, 241-249.	5.0	12
49	Intracellular localization and delivery of plasmid DNA by biodegradable microsphereâ€mediated femtosecond laser optoporation. Journal of Biophotonics, 2017, 10, 1723-1731.	2.3	10
50	Crosslinked Poly(N â€Isopropylacrylamide)â€Based Microfibers as Cell Manipulation Materials with Prompt Cell Detachment. Macromolecular Rapid Communications, 2019, 40, 1900464.	3.9	10
51	Long-term single cell bioluminescence imaging with C-3 position protected coelenterazine analogues. Organic and Biomolecular Chemistry, 2021, 19, 579-586.	2.8	9
52	Li+-selective optodes â€“ effect of fluoroionophore distribution in mesoporous silica thin films on Li+ response. RSC Advances, 2013, 3, 6499.	3.6	8
53	Transcutaneous drug delivery by liposomes using fractional laser technology. Lasers in Surgery and Medicine, 2017, 49, 525-532.	2.1	8
54	Quantitative evaluation of luminescence intensity from enzymatic luminescence reaction of coelenterazine and analogues. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 394, 112459.	3.9	8

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55	A biomimetic hybrid material consisting of CaCO₃ mesoporous microspheres and an alternating copolymer for reversed-phase HPLC. Journal of Materials Chemistry B, 2019, 7, 4771-4777.	5.8	7
56	Traffic light type paper-based analytical device for intuitive and semi-quantitative naked-eye signal readout. Lab on A Chip, 2022, 22, 717-726.	6.0	6
57	A Series of Furimazine Derivatives for Sustained Live-Cell Bioluminescence Imaging and Application to the Monitoring of Myogenesis at the Single-Cell Level. Bioconjugate Chemistry, 2022, 33, 496-504.	3.6	6
58	pH-Responsive Tunable Mixed-Charge Polymers for pH-Selective Interaction with Anionic Biological Constituents. Bulletin of the Chemical Society of Japan, 2020, 93, 547-552.	3.2	5
59	Small Molecule-based Alkaline-earth Metal Ion Fluorescent Probes for Imaging Intracellular and Intercellular Multiple Signals. Chemistry Letters, 2021, 50, 870-887.	1.3	4
60	Feasibility of Using Poly[oligo(ethylene glycol) Methyl Ether Methacrylate] as Tumor-Targeted Carriers of Diagnostic Drugs. ACS Applied Polymer Materials, 0, , .	4.4	4
61	Quantitative evaluation of reversed-phase packing material based on calcium carbonate microspheres modified with an alternating copolymer. Journal of Chromatography A, 2022, 1677, 463294.	3.7	4
62	Steric hindrance effects in tripodal ligands for extraction and back-extraction of Ag+. RSC Advances, 2014, 4, 9791.	3.6	2
63	Development of Nanocarriers Functionalized with Stimuli-Responsive Polymer for Controlled Cellular Uptake. Kobunshi Ronbunshu, 2018, 75, 116-127.	0.2	2
64	Development of Near-Infrared Fluorescent Mg2+ Probe and Application to Multicolor Imaging of Intracellular Signals. Methods in Molecular Biology, 2021, 2274, 217-235.	0.9	2
65	Self-Assembly of 2D Nematic and Random Arrays of Sterically Stabilized Nanoscale Rods with and without Evaporation. Langmuir, 2021, 37, 6533-6539.	3.5	2
66	Rapid and Simultaneous Analysis of Psychotropic Drugs by Ultra-High-Speed HPLC. Bunseki Kagaku, 2016, 65, 173-179.	0.2	1
67	Distance Readout-Based Paper Device for Multiplexed Urinalysis. Bunseki Kagaku, 2021, 70, 175-181.	0.2	1
68	Ion-Selective Optodes Integrated Paper-Based Device for Simultaneous Colorimetric Quantification of Salivary Na⁺, K⁺ and Ca²⁺. Bunseki Kagaku, 2021, 70, 165-173.	0.2	1
69	RÃ¼cktitelbild: Paperâ€Based Antibody Detection Devices Using Bioluminescent BRETâ€Switching Sensor Proteins (Angew. Chem. 47/2018). Angewandte Chemie, 2018, 130, 15834-15834.	2.0	0
70	Differential Effect of Azetidine Substitution in Firefly Luciferin Analogues. ChemBioChem, 2021, 22, 3067-3074.	2.6	0
71	Fluorescent and Bioluminescent Probes based on Precise Molecular Design. Bunseki Kagaku, 2021, 70, 601-616.	0.2	0