

Tsuyoshi Minami

List of Publications by Year in descending order

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118
papers

3,394
citations

126907

33
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168389

53
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125
all docs

125
docs citations

125
times ranked

2920
citing authors

#	ARTICLE	IF	CITATIONS
1	A minimized fluorescent chemosensor array utilizing carboxylate-attached polythiophenes on a chip for metal ions detection. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 72-80.	4.4	13
2	Supramolecular optical sensor arrays for on-site analytical devices. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 51, 100475.	11.6	17
3	Multi-Oxanyon Detection by an Organic Field-Effect Transistor with Pattern Recognition Techniques and Its Application to Quantitative Phosphate Sensing in Human Blood Serum. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22903-22911.	8.0	17
4	Freshness monitoring of raw fish by detecting biogenic amines using a gold nanoparticle-based colorimetric sensor array. <i>RSC Advances</i> , 2022, 12, 6803-6810.	3.6	16
5	A microfluidic organic transistor for reversible and real-time monitoring of H_2O_2 at ppb/ppt levels in ultrapure water. <i>Chemical Communications</i> , 2022, 58, 5721-5724.	4.1	4
6	Oxytocin detection at ppt level in human saliva by an extended-gate-type organic field-effect transistor. <i>Analyst</i> , 2022, 147, 1055-1059.	3.5	15
7	Printed 384-Well Microtiter Plate on Paper for Fluorescent Chemosensor Arrays in Food Analysis. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	7
8	An organic transistor for the selective detection of tropane alkaloids utilizing a molecularly imprinted polymer. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6808-6815.	5.8	9
9	Extended gate-type organic transistor functionalized by molecularly imprinted polymer for taurine detection. <i>Nanoscale</i> , 2021, 13, 100-107.	5.6	22
10	Easy-to-Prepare Mini-Chemosensor Array for Simultaneous Detection of Cysteine and Glutathione Derivatives. <i>ACS Applied Bio Materials</i> , 2021, 4, 2113-2119.	4.6	14
11	Molecular self-assembled chemosensors and their arrays. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213607.	18.8	49
12	96-Well Microtiter Plate Made of Paper: A Printed Chemosensor Array for Quantitative Detection of Saccharides. <i>Analytical Chemistry</i> , 2021, 93, 1179-1184.	6.5	40
13	Design of Supramolecular Sensors and Their Applications to Optical Chips and Organic Devices. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 24-33.	3.2	15
14	Extended-gate-type Organic Field-effect Transistors for the Detection of Potential Psychological Stress Markers. <i>Sensors and Materials</i> , 2021, 33, 211.	0.5	0
15	Flexible organic thin-film transistor immunosensor printed on a one-micron-thick film. <i>Communications Materials</i> , 2021, 2, .	6.9	42
16	Detection of polyamines by an extended gate-type organic transistor functionalized with a carboxylate attached 1,3,4-thiadiazole derivative. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11690-11697.	5.5	8
17	Organic transistor-based chemical sensors with self-assembled monolayers. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2021, 101, 1-18.	1.6	8
18	Suppression of Malachite Green-Induced Toxicity to Human Liver Cells Utilizing Host-Guest Chemistry of Cucurbit[7]uril. <i>Analytical Sciences</i> , 2021, 37, 525-528.	1.6	0

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19	A Printed Paper-Based Anion Sensor Array for Multi-Analyte Classification: On-Site Quantification of Glyphosate. <i>ChemPlusChem</i> , 2021, 86, 798-802.	2.8	15
20	Light-inducible control of cellular proliferation and differentiation by a Hedgehog signaling inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 38, 116144.	3.0	2
21	Indicator Displacement Assay-based Chemosensor Arrays for Saccharides using Off-the-shelf Materials toward Simultaneous On-site Detection on Paper. <i>Chemistry Letters</i> , 2021, 50, 987-995.	1.3	5
22	Toward Food Freshness Monitoring: Coordination Binding-Based Colorimetric Sensor Array for Sulfur-Containing Amino Acids. <i>Frontiers in Chemistry</i> , 2021, 9, 685783.	3.6	11
23	A polythiophene-based chemosensor array for Japanese rice wine (sake) tasting. <i>Polymer Journal</i> , 2021, 53, 1287-1291.	2.7	6
24	Real-Time Detection of Glyphosate by a Water-Gated Organic Field-Effect Transistor with a Microfluidic Chamber. <i>Langmuir</i> , 2021, 37, 7305-7311.	3.5	13
25	Chemical sensing based on water-gated polythiophene thin-film transistors. <i>Polymer Journal</i> , 2021, 53, 1315-1323.	2.7	2
26	Toward the Realization of Organic Transistor-Based Ubiquitous Chemical Sensors. <i>Journal of Japan Institute of Electronics Packaging</i> , 2021, 24, 361-368.	0.1	0
27	Polythiophene-Based Chemical Sensors: Toward On-Site Supramolecular Analytical Devices. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2613-2622.	3.2	15
28	Editorial: <i>Frontiers in Chemistry-Rising Stars: Asia</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 811459.	3.6	0
29	On-site Chemosensor Arrays for Qualitative and Quantitative Detection with Imaging Analysis. <i>Bunseki Kagaku</i> , 2021, 70, 691-702.	0.2	0
30	Highly selective detection of copper(II) by a ligand-free-conjugated copolymer in nucleophilic solvents. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 105-111.	4.4	7
31	Preparation of Polyaniline/Emulsion Microsphere Composite for Efficient Adsorption of Organic Dyes. <i>Polymers</i> , 2020, 12, 167.	4.5	29
32	An extended-gate type organic transistor with a solution-processable small molecule semiconductor capable of detecting glutathione in water. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SGGG07.	1.5	5
33	A Water-Gated Organic Thin-Film Transistor for Glyphosate Detection: A Comparative Study with Fluorescence Sensing. <i>Chemistry - A European Journal</i> , 2020, 26, 14506-14506.	3.3	1
34	A Water-Gated Organic Thin-Film Transistor for Glyphosate Detection: A Comparative Study with Fluorescence Sensing. <i>Chemistry - A European Journal</i> , 2020, 26, 14525-14529.	3.3	17
35	Protein Assays on Organic Electronics: Rational Device and Material Designs for Organic Transistor-Based Sensors. <i>ChemistryOpen</i> , 2020, 9, 573-581.	1.9	5
36	Fluorescence Anion Chemosensor Array Based on Pyrenylboronic Acid. <i>Frontiers in Chemistry</i> , 2020, 8, 414.	3.6	12

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37	Development of a morphological color image processing algorithm for paper-based analytical devices. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128571.	7.8	17
38	Porous microneedles on a paper for screening test of prediabetes. <i>Medical Devices & Sensors</i> , 2020, 3, e10109.	2.7	32
39	Supramolecular Sensor for Astringent Procyanidin C1: Fluorescent Artificial Tongue for Wine Components. <i>Chemistry - A European Journal</i> , 2020, 26, 16236-16240.	3.3	16
40	Accurate chiral pattern recognition for amines from just a single chemosensor. <i>Chemical Science</i> , 2020, 11, 3790-3796.	7.4	34
41	Microfluidic System with Extended-Gate-Type Organic Transistor for Real-Time Glucose Monitoring. <i>ChemElectroChem</i> , 2020, 7, 1332-1336.	3.4	23
42	A Light-Inducible Hedgehog Signaling Activator Modulates Proliferation and Differentiation of Neural Cells. <i>ACS Chemical Biology</i> , 2020, 15, 1595-1603.	3.4	5
43	Removal of Cr(VI) from Aqueous Solution by Polypyrrole/Hollow Mesoporous Silica Particles. <i>Nanomaterials</i> , 2020, 10, 686.	4.1	17
44	Non-enzymatic lactate detection by an extended-gate type organic field effect transistor. <i>Semiconductor Science and Technology</i> , 2020, 35, 11LT02.	2.0	11
45	Sensitive Detection of Glyphosate By a Water-Gated Organic Transistor. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1879-1879.	0.0	0
46	Chemical Sensing in Aqueous Media by Organic TFTs. , 2020, , .		1
47	Sensitive Detection of Glyphosate by a Water-Gated Organic Transistor. <i>ECS Transactions</i> , 2020, 98, 41-46.	0.5	1
48	Sensitive Detection of Glyphosate by a Water-Gated Organic Transistor. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3380-3380.	0.0	0
49	Development of polymer field-effect transistor-based immunoassays. <i>Polymer Journal</i> , 2019, 51, 1-9.	2.7	16
50	Fabrication of a Flexible Biosensor Based on an Organic Field-effect Transistor for Lactate Detection. <i>Analytical Sciences</i> , 2019, 35, 103-106.	1.6	38
51	Facile Indicator Displacement Assay-based Supramolecular Chemosensor: Quantitative Colorimetric Determination of Xylose and Glucose in the Presence of Ascorbic Acid. <i>Chemistry Letters</i> , 2019, 48, 1368-1370.	1.3	6
52	Chemical Sensing Platforms Based on Organic Thin-Film Transistors Functionalized with Artificial Receptors. <i>ACS Sensors</i> , 2019, 4, 2571-2587.	7.8	62
53	Simple Colorimetric Chemosensor Array for Oxyanions: Quantitative Assay for Herbicide Glyphosate. <i>Analytical Chemistry</i> , 2019, 91, 13627-13632.	6.5	46
54	A Saccharide Chemosensor Array Developed Based on an Indicator Displacement Assay Using a Combination of Commercially Available Reagents. <i>Frontiers in Chemistry</i> , 2019, 7, 49.	3.6	23

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55	Porous Microneedle Integrated in Paper based Glucose Sensor for Fluid Channel Interface. , 2019, , .		1
56	Simplest Chemosensor Array for Phosphorylated Saccharides. Analytical Chemistry, 2019, 91, 15570-15576.	6.5	30
57	An Organic FET with an Aluminum Oxide Extended Gate for pH Sensing. Sensors and Materials, 2019, 31, 99.	0.5	3
58	Anion Sensing by Fluorescent Expanded Calixpyrroles. Chemistry - A European Journal, 2018, 24, 4879-4884.	3.3	30
59	Development of Enzymatic Sensors Based on Extended-gate-type Organic Field-effect Transistors. Electrochemistry, 2018, 86, 303-308.	1.4	18
60	Fabrication of Supramolecular Sensor Arrays Using Intramolecular/Intermolecular Interactions. Bunseki Kagaku, 2018, 67, 519-529.	0.2	1
61	An electrolyte-gated polythiophene transistor for the detection of biogenic amines in water. Chemical Communications, 2018, 54, 6907-6910.	4.1	31
62	Development of Organic Thin-film Transistors with Molecular Recognition Ability for Chemical Sensing. Bunseki Kagaku, 2018, 67, 229-237.	0.2	0
63	Easy and green preparation of a grapheneâ€TiO ₂ nanohybrid using a supramolecular biomaterial consisting of artificially bifunctionalized proteins and its application for a perovskite solar cell. Nanoscale, 2018, 10, 19249-19253.	5.6	6
64	Development of Supramolecular Sensor Devices Based on Organic Transistors. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2018, 76, 1086-1097.	0.1	1
65	Fluorescence-Based Assay for Carbonic Anhydrase Inhibitors. Chem, 2017, 2, 271-282.	11.7	24
66	Development of a silver nanoparticle ink for fine line patterning using gravure offset printing. Japanese Journal of Applied Physics, 2017, 56, 05EA04.	1.5	11
67	A molecular self-assembled colourimetric chemosensor array for simultaneous detection of metal ions in water. Chemical Communications, 2017, 53, 6561-6564.	4.1	52
68	Label-Free Direct Electrical Detection of a Histidine-Rich Protein with Sub-Femtomolar Sensitivity using an Organic Field-Effect Transistor. ChemistryOpen, 2017, 6, 455-455.	1.9	1
69	Label-Free Direct Electrical Detection of a Histidine-Rich Protein with Sub-Femtomolar Sensitivity using an Organic Field-Effect Transistor. ChemistryOpen, 2017, 6, 472-475.	1.9	35
70	Supramolecular Sensors for Opiates and Their Metabolites. Journal of the American Chemical Society, 2017, 139, 14954-14960.	13.7	76
71	One-step, green synthesis of a supramolecular organogelator based on mellitic triimide for the recognition of aromatic compounds. Chemical Communications, 2017, 53, 8834-8837.	4.1	6
72	An Organic Transistor-based Electrical Assay for Copper(II) in Water. Electrochemistry, 2017, 85, 775-778.	1.4	15

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73	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. <i>Sensors</i> , 2016, 16, 2033.	3.8	29
74	Toward Fluorescence-Based High-Throughput Screening for Enantiomeric Excess in Amines and Amino Acid Derivatives. <i>Chemistry - A European Journal</i> , 2016, 22, 10074-10080.	3.3	32
75	Exploratory Research of Chemical Sensors Based on Organic Transistors with Self-Assembled Monolayer-Functionalized Electrodes. <i>Kobunshi Ronbunshu</i> , 2016, 73, 453-463.	0.2	0
76	Detection of mercury(II) ion in water using an organic field-effect transistor with a cysteine-immobilized gold electrode. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EL02.	1.5	23
77	Synthesis and solid-state polymerization of diacetylene derivatives directly substituted with a phenylcarbazole moiety. <i>Polymer Journal</i> , 2016, 48, 1013-1018.	2.7	10
78	Electric Detection of Phosphate Anions in Water by an Extended-gate-type Organic Field-effect Transistor Functionalized with a Zinc(II)-Dipicolylamine Derivative. <i>Chemistry Letters</i> , 2016, 45, 371-373.	1.3	17
79	Quantitative analysis of modeled ATP hydrolysis in water by a colorimetric sensor array. <i>Chemical Communications</i> , 2016, 52, 7838-7841.	4.1	40
80	Selective nitrate detection by an enzymatic sensor based on an extended-gate type organic field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2016, 81, 87-91.	10.1	73
81	Antibody- and Label-Free Phosphoprotein Sensor Device Based on an Organic Transistor. <i>Analytical Chemistry</i> , 2016, 88, 1092-1095.	6.5	49
82	Determination of enantiomeric excess of carboxylates by fluorescent macrocyclic sensors. <i>Chemical Science</i> , 2016, 7, 2016-2022.	7.4	65
83	An Extended-gate Type Organic FET Based Biosensor for Detecting Biogenic Amines in Aqueous Solution. <i>Analytical Sciences</i> , 2015, 31, 721-724.	1.6	26
84	An Organic Field-effect Transistor with an Extended-gate Electrode Capable of Detecting Human Immunoglobulin A. <i>Analytical Sciences</i> , 2015, 31, 725-728.	1.6	32
85	Synthesis and Solid-State Polymerization of Diacetylene Derivatives with an <i>N</i> -Carbazolyphenyl Group. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 843-849.	3.2	7
86	Determination of Enantiomeric Excess in Amine Derivatives with Molecular Self-Assemblies. <i>Angewandte Chemie</i> , 2015, 127, 7236-7239.	2.0	29
87	Biosensors: Printed Organic Transistors with Uniform Electrical Performance and Their Application to Amplifiers in Biosensors (<i>Adv. Electron. Mater.</i> 7/2015). <i>Advanced Electronic Materials</i> , 2015, 1, .	5.1	3
88	Determination of Enantiomeric Excess in Amine Derivatives with Molecular Self-Assemblies. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7130-7133.	13.8	96
89	Titelbild: Determination of Enantiomeric Excess in Amine Derivatives with Molecular Self-Assemblies (<i>Angew. Chem.</i> 24/2015). <i>Angewandte Chemie</i> , 2015, 127, 7047-7047.	2.0	0
90	Cysteine detection in water using an organic field-effect transistor with a gold extended-gate electrode. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 04DK01.	1.5	10

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91	Extended-gate organic field-effect transistor for the detection of histamine in water. Japanese Journal of Applied Physics, 2015, 54, 04DK02.	1.5	16
92	Sensing of enantiomeric excess in chiral carboxylic acids. Chemical Communications, 2015, 51, 5770-5773.	4.1	41
93	A novel OFET-based biosensor for the selective and sensitive detection of lactate levels. Biosensors and Bioelectronics, 2015, 74, 45-48.	10.1	98
94	Printed Organic Transistors with Uniform Electrical Performance and Their Application to Amplifiers in Biosensors. Advanced Electronic Materials, 2015, 1, 1400052.	5.1	71
95	An anion sensor based on an organic field effect transistor. Chemical Communications, 2015, 51, 9491-9494.	4.1	31
96	A mercury(Hg^{2+}) ion sensor device based on an organic field effect transistor with an extended-gate modified by dipicolylamine. Chemical Communications, 2015, 51, 17666-17668.	4.1	51
97	Intravitreal Injection of Bevacizumab for Retinopathy of Prematurity in an Infant with Peters Anomaly. Case Reports in Ophthalmology, 2014, 5, 318-324.	0.7	3
98	A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. Materials, 2014, 7, 6843-6852.	2.9	53
99	Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. Applied Physics Letters, 2014, 104, .	3.3	85
100	"Turn-on" fluorescent sensor array for basic amino acids in water. Chemical Communications, 2014, 50, 61-63.	4.1	122
101	An extended-gate type organic field effect transistor functionalised by phenylboronic acid for saccharide detection in water. Chemical Communications, 2014, 50, 15613-15615.	4.1	65
102	Intramolecular Indicator Displacement Assay for Anions: Supramolecular Sensor for Glyphosate. Journal of the American Chemical Society, 2014, 136, 11396-11401.	13.7	110
103	Selective Anion Sensing by Chiral Macrocyclic Receptors with Multiple Hydrogen-Bonding Sites. Organic Letters, 2014, 16, 1302-1305.	4.6	48
104	Anion Binding Modes in <i>meso</i> -Substituted Hexapyrrolic Calix[4]pyrrole Isomers. Journal of the American Chemical Society, 2014, 136, 1520-1525.	13.7	50
105	First supramolecular sensors for phosphonate anions. Chemical Science, 2013, 4, 3617.	7.4	67
106	Multianalyte Sensing of Addictive Over-the-Counter (OTC) Drugs. Journal of the American Chemical Society, 2013, 135, 15238-15243.	13.7	116
107	Sensing of Carboxylate Drugs in Urine by a Supramolecular Sensor Array. Journal of the American Chemical Society, 2013, 135, 7705-7712.	13.7	131
108	Leveraging Material Properties in Fluorescence Anion Sensor Arrays: A General Approach. Chemistry - A European Journal, 2013, 19, 8497-8506.	3.3	60

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109	Supramolecular Sensor for Cancer-Associated Nitrosamines. Journal of the American Chemical Society, 2012, 134, 20021-20024.	13.7	143
110	Templated Synthesis of Glycoluril Hexamer and Monofunctionalized Cucurbit[6]uril Derivatives. Journal of the American Chemical Society, 2011, 133, 17966-17976.	13.7	159
111	Selective anion-induced helical aggregation of chiral amphiphilic polythiophenes with isothiuronium-appended pendants. Supramolecular Chemistry, 2011, 23, 13-18.	1.2	14
112	Fluorescence Sensing of Phytate in Water Using an Isothiuronium-Attached Polythiophene. Chemistry - an Asian Journal, 2010, 5, 605-611.	3.3	29
113	Shape-controllable gold nanocrystallization using an amphiphilic polythiophene. Chemical Communications, 2010, 46, 8603.	4.1	20
114	Amine-triggered molecular capsules using dynamic boronate esterification. Chemical Communications, 2009, , 1682.	4.1	45
115	Isothiuronium-based amphiphilic gold nanoparticles with a colorimetric response to hydrophobic anions in water: a new strategy for fluoride ion detection in the presence of a phenylboronic acid. Tetrahedron Letters, 2008, 49, 432-436.	1.4	42
116	Development of Chemical Stimuli-responsive Organogel Using Boronate Ester-substituted Cyclotricatechylene. Chemistry Letters, 2008, 37, 1238-1239.	1.3	21
117	Highly Selective Fluoride Ion Detection Based on a Fluorescent Alizarin- <i>o</i> -Aminomethylphenylboronic Acid Ensemble in Aqueous MeOH Solution. Chemistry Letters, 2006, 35, 996-997.	1.3	31
118	Get Inspired by other Disciplines and Cultures. ChemistryViews, 0, , .	0.0	0