

# Tsuyoshi Minami

## List of Publications by Year in descending order

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118  
papers

3,394  
citations

126907

33  
h-index

168389

53  
g-index

125  
all docs

125  
docs citations

125  
times ranked

2920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Templated Synthesis of Glycoluril Hexamer and Monofunctionalized Cucurbit[6]uril Derivatives. <i>Journal of the American Chemical Society</i> , 2011, 133, 17966-17976.	13.7	159
2	Supramolecular Sensor for Cancer-Associated Nitrosamines. <i>Journal of the American Chemical Society</i> , 2012, 134, 20021-20024.	13.7	143
3	Sensing of Carboxylate Drugs in Urine by a Supramolecular Sensor Array. <i>Journal of the American Chemical Society</i> , 2013, 135, 7705-7712.	13.7	131
4	Turn-on fluorescent sensor array for basic amino acids in water. <i>Chemical Communications</i> , 2014, 50, 61-63.	4.1	122
5	Multianalyte Sensing of Addictive Over-the-Counter (OTC) Drugs. <i>Journal of the American Chemical Society</i> , 2013, 135, 15238-15243.	13.7	116
6	Intramolecular Indicator Displacement Assay for Anions: Supramolecular Sensor for Glyphosate. <i>Journal of the American Chemical Society</i> , 2014, 136, 11396-11401.	13.7	110
7	A novel OFET-based biosensor for the selective and sensitive detection of lactate levels. <i>Biosensors and Bioelectronics</i> , 2015, 74, 45-48.	10.1	98
8	Determination of Enantiomeric Excess in Amine Derivatives with Molecular Self-Assemblies. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7130-7133.	13.8	96
9	Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	85
10	Supramolecular Sensors for Opiates and Their Metabolites. <i>Journal of the American Chemical Society</i> , 2017, 139, 14954-14960.	13.7	76
11	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
12	Printed Organic Transistors with Uniform Electrical Performance and Their Application to Amplifiers in Biosensors. <i>Advanced Electronic Materials</i> , 2015, 1, 1400052.	5.1	71
13	First supramolecular sensors for phosphonate anions. <i>Chemical Science</i> , 2013, 4, 3617.	7.4	67
14	An extended-gate type organic field effect transistor functionalised by phenylboronic acid for saccharide detection in water. <i>Chemical Communications</i> , 2014, 50, 15613-15615.	4.1	65
15	Determination of enantiomeric excess of carboxylates by fluorescent macrocyclic sensors. <i>Chemical Science</i> , 2016, 7, 2016-2022.	7.4	65
16	Chemical Sensing Platforms Based on Organic Thin-Film Transistors Functionalized with Artificial Receptors. <i>ACS Sensors</i> , 2019, 4, 2571-2587.	7.8	62
17	Leveraging Material Properties in Fluorescence Anion Sensor Arrays: A General Approach. <i>Chemistry - A European Journal</i> , 2013, 19, 8497-8506.	3.3	60
18	A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. <i>Materials</i> , 2014, 7, 6843-6852.	2.9	53

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19	A molecular self-assembled colourimetric chemosensor array for simultaneous detection of metal ions in water. <i>Chemical Communications</i> , 2017, 53, 6561-6564.	4.1	52
20	A mercury( $\text{Hg}^{2+}$ ) ion sensor device based on an organic field effect transistor with an extended-gate modified by dipicolylamine. <i>Chemical Communications</i> , 2015, 51, 17666-17668.	4.1	51
21	Anion Binding Modes in <i>meso</i> -Substituted Hexapyrrolic Calix[4]pyrrole Isomers. <i>Journal of the American Chemical Society</i> , 2014, 136, 1520-1525.	13.7	50
22	Antibody- and Label-Free Phosphoprotein Sensor Device Based on an Organic Transistor. <i>Analytical Chemistry</i> , 2016, 88, 1092-1095.	6.5	49
23	Molecular self-assembled chemosensors and their arrays. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213607.	18.8	49
24	Selective Anion Sensing by Chiral Macrocyclic Receptors with Multiple Hydrogen-Bonding Sites. <i>Organic Letters</i> , 2014, 16, 1302-1305.	4.6	48
25	Simple Colorimetric Chemosensor Array for Oxyanions: Quantitative Assay for Herbicide Glyphosate. <i>Analytical Chemistry</i> , 2019, 91, 13627-13632.	6.5	46
26	Amine-triggered molecular capsules using dynamic boronate esterification. <i>Chemical Communications</i> , 2009, , 1682.	4.1	45
27	Isothiouonium-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. <i>Tetrahedron Letters</i> , 2008, 49, 432-436.	1.4	42
28	Flexible organic thin-film transistor immunosensor printed on a one-micron-thick film. <i>Communications Materials</i> , 2021, 2, .	6.9	42
29	Sensing of enantiomeric excess in chiral carboxylic acids. <i>Chemical Communications</i> , 2015, 51, 5770-5773.	4.1	41
30	Quantitative analysis of modeled ATP hydrolysis in water by a colorimetric sensor array. <i>Chemical Communications</i> , 2016, 52, 7838-7841.	4.1	40
31	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
32	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
33	Label-Free Direct Electrical Detection of a Histidine-Rich Protein with Sub-Femtomolar Sensitivity using an Organic Field-Effect Transistor. <i>ChemistryOpen</i> , 2017, 6, 472-475.	1.9	35
34	Accurate chiral pattern recognition for amines from just a single chemosensor. <i>Chemical Science</i> , 2020, 11, 3790-3796.	7.4	34
35	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
36	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

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37	Porous microneedles on a paper for screening test of prediabetes. <i>Medical Devices &amp; Sensors</i> , 2020, 3, e10109.	2.7	32
38	Highly Selective Fluoride Ion Detection Based on a Fluorescent Alizarinâ€œo-Aminomethylphenylboronic Acid Ensemble in Aqueous MeOH Solution. <i>Chemistry Letters</i> , 2006, 35, 996-997.	1.3	31
39	An anion sensor based on an organic field effect transistor. <i>Chemical Communications</i> , 2015, 51, 9491-9494.	4.1	31
40	An electrolyte-gated polythiophene transistor for the detection of biogenic amines in water. <i>Chemical Communications</i> , 2018, 54, 6907-6910.	4.1	31
41	Anion Sensing by Fluorescent Expanded Calixpyrroles. <i>Chemistry - A European Journal</i> , 2018, 24, 4879-4884.	3.3	30
42	Simplest Chemosensor Array for Phosphorylated Saccharides. <i>Analytical Chemistry</i> , 2019, 91, 15570-15576.	6.5	30
43	Fluorescence Sensing of Phytate in Water Using an Isothiouoniumâ€œAttached Polythiophene. <i>Chemistry - an Asian Journal</i> , 2010, 5, 605-611.	3.3	29
44	Determination of Enantiomeric Excess in Amine Derivatives with Molecular Selfâ€œAssemblies. <i>Angewandte Chemie</i> , 2015, 127, 7236-7239.	2.0	29
45	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. <i>Sensors</i> , 2016, 16, 2033.	3.8	29
46	Preparation of Polyaniline/Emulsion Microsphere Composite for Efficient Adsorption of Organic Dyes. <i>Polymers</i> , 2020, 12, 167.	4.5	29
47	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
48	Fluorescence-Based Assay for Carbonic Anhydrase Inhibitors. <i>CheM</i> , 2017, 2, 271-282.	11.7	24
49	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
50	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
51	Microfluidic System with Extendedâ€œGateâ€œType Organic Transistor for Realâ€œTime Glucose Monitoring. <i>ChemElectroChem</i> , 2020, 7, 1332-1336.	3.4	23
52	Extended gate-type organic transistor functionalized by molecularly imprinted polymer for taurine detection. <i>Nanoscale</i> , 2021, 13, 100-107.	5.6	22
53	Development of Chemical Stimuli-responsive Organogel Using Boronate Ester-substituted Cyclotricatechylene. <i>Chemistry Letters</i> , 2008, 37, 1238-1239.	1.3	21
54	Shape-controllable gold nanocrystallization using an amphiphilic polythiophene. <i>Chemical Communications</i> , 2010, 46, 8603.	4.1	20

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55	Development of Enzymatic Sensors Based on Extended-gate-type Organic Field-effect Transistors. <i>Electrochemistry</i> , 2018, 86, 303-308.	1.4	18
56	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
57	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
58	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
59	Removal of Cr(VI) from Aqueous Solution by Polypyrrole/Hollow Mesoporous Silica Particles. <i>Nanomaterials</i> , 2020, 10, 686.	4.1	17
60	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
61	Multi-Oxyanion 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 &amp; Interfaces</i> , 2022, 14, 22903-22911.	8.0	17
62	Extended-gate organic field-effect transistor for the detection of histamine in water. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 04DK02.	1.5	16
63	Development of polymer field-effect transistor-based immunoassays. <i>Polymer Journal</i> , 2019, 51, 1-9.	2.7	16
64	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
65	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
66	An Organic Transistor-based Electrical Assay for Copper(II) in Water. <i>Electrochemistry</i> , 2017, 85, 775-778.	1.4	15
67	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
68	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
69	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
70	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
71	Selective anion-induced helical aggregation of chiral amphiphilic polythiophenes with isothiuronium-appended pendants. <i>Supramolecular Chemistry</i> , 2011, 23, 13-18.	1.2	14
72	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

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73	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
74	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
75	Fluorescence Anion Chemosensor Array Based on Pyrenylboronic Acid. <i>Frontiers in Chemistry</i> , 2020, 8, 414.	3.6	12
76	Development of a silver nanoparticle ink for fine line patterning using gravure offset printing. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 05EA04.	1.5	11
77	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
78	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
79	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
80	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
81	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
82	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
83	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
84	Synthesis and Solid-State Polymerization of Diacetylene Derivatives with an <i>N</i> -Carbazolylphenyl Group. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 843-849.	3.2	7
85	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
86	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
87	One-step, green synthesis of a supramolecular organogelator based on mellitic triimide for the recognition of aromatic compounds. <i>Chemical Communications</i> , 2017, 53, 8834-8837.	4.1	6
88	Easy and green preparation of a graphene-TiO <sub>2</sub> nanohybrid using a supramolecular biomaterial consisting of artificially bifunctionalized proteins and its application for a perovskite solar cell. <i>Nanoscale</i> , 2018, 10, 19249-19253.	5.6	6
89	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
90	A polythiophene-based chemosensor array for Japanese rice wine (sake) tasting. <i>Polymer Journal</i> , 2021, 53, 1287-1291.	2.7	6

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91	An extended-gate type organic transistor with a solution-processable small molecule semiconductor capable of detecting glutathione in water. Japanese Journal of Applied Physics, 2020, 59, SGGG07.	1.5	5
92	Protein Assays on Organic Electronics: Rational Device and Material Designs for Organic Transistor-Based Sensors. ChemistryOpen, 2020, 9, 573-581.	1.9	5
93	A Light-Inducible Hedgehog Signaling Activator Modulates Proliferation and Differentiation of Neural Cells. ACS Chemical Biology, 2020, 15, 1595-1603.	3.4	5
94	Indicator Displacement Assay-based Chemosensor Arrays for Saccharides using Off-the-shelf Materials toward Simultaneous On-site Detection on Paper. Chemistry Letters, 2021, 50, 987-995.	1.3	5
95	A microfluidic organic transistor for reversible and real-time monitoring of $H_2O_2$ at ppb/ppt levels in ultrapure water. Chemical Communications, 2022, 58, 5721-5724.	4.1	4
96	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
97	Biosensors: Printed Organic Transistors with Uniform Electrical Performance and Their Application to Amplifiers in Biosensors (Adv. Electron. Mater. 7/2015). Advanced Electronic Materials, 2015, 1, .	5.1	3
98	An Organic FET with an Aluminum Oxide Extended Gate for pH Sensing. Sensors and Materials, 2019, 31, 99.	0.5	3
99	Light-inducible control of cellular proliferation and differentiation by a Hedgehog signaling inhibitor. Bioorganic and Medicinal Chemistry, 2021, 38, 116144.	3.0	2
100	Chemical sensing based on water-gated polythiophene thin-film transistors. Polymer Journal, 2021, 53, 1315-1323.	2.7	2
101	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
102	Fabrication of Supramolecular Sensor Arrays Using Intramolecular/Intermolecular Interactions. Bunseki Kagaku, 2018, 67, 519-529.	0.2	1
103	Porous Microneedle Integrated in Paper based Glucose Sensor for Fluid Channel Interface. , 2019, , .		1
104	A Water-Gated Organic Thin-Film Transistor for Glyphosate Detection: A Comparative Study with Fluorescence Sensing. Chemistry - A European Journal, 2020, 26, 14506-14506.	3.3	1
105	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
106	Chemical Sensing in Aqueous Media by Organic TFTs. , 2020, , .		1
107	Sensitive Detection of Glyphosate by a Water-Gated Organic Transistor. ECS Transactions, 2020, 98, 41-46.	0.5	1
108	Titelbild: Determination of Enantiomeric Excess in Amine Derivatives with Molecular Self-Assemblies (Angew. Chem. 24/2015). Angewandte Chemie, 2015, 127, 7047-7047.	2.0	0

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109	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
110	Development of Organic Thin-film Transistors with Molecular Recognition Ability for Chemical Sensing. <i>Bunseki Kagaku</i> , 2018, 67, 229-237.	0.2	0
111	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
112	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
113	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
114	Sensitive Detection of Glyphosate By a Water-Gated Organic Transistor. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1879-1879.	0.0	0
115	Get Inspired by other Disciplines and Cultures. <i>ChemistryViews</i> , 0, , .	0.0	0
116	Editorial: <i>Frontiers in Chemistry-Rising Stars: Asia</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 811459.	3.6	0
117	Sensitive Detection of Glyphosate by a Water-Gated Organic Transistor. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3380-3380.	0.0	0
118	On-site Chemosensor Arrays for Qualitative and Quantitative Detection with Imaging Analysis. <i>Bunseki Kagaku</i> , 2021, 70, 691-702.	0.2	0