

Tsukuru Minamiki

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,306
citations

304368

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344852

36
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48
all docs

48
docs citations

48
times ranked

1297
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel OFET-based biosensor for the selective and sensitive detection of lactate levels. <i>Biosensors and Bioelectronics</i> , 2015, 74, 45-48.	5.3	98
2	Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	85
3	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.	5.3	73
4	Printed Organic Transistors with Uniform Electrical Performance and Their Application to Amplifiers in Biosensors. <i>Advanced Electronic Materials</i> , 2015, 1, 1400052.	2.6	71
5	<i>syn</i> -/ <i>anti</i> -Anthradithiophene Derivative Isomer Effects on Semiconducting Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9670-9677.	4.0	65
6	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.	2.2	65
7	Chemical Sensing Platforms Based on Organic Thin-Film Transistors Functionalized with Artificial Receptors. <i>ACS Sensors</i> , 2019, 4, 2571-2587.	4.0	62
8	A Label-Free Immunosensor for IgG Based on an Extended-Gate Type Organic Field Effect Transistor. <i>Materials</i> , 2014, 7, 6843-6852.	1.3	53
9	A molecular self-assembled colourimetric chemosensor array for simultaneous detection of metal ions in water. <i>Chemical Communications</i> , 2017, 53, 6561-6564.	2.2	52
10	A mercury(^{II}) 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.	2.2	51
11	Strain sensitivity and durability in p-type and n-type organic thin-film transistors with printed silver electrodes. <i>Scientific Reports</i> , 2013, 3, 2048.	1.6	50
12	Antibody- and Label-Free Phosphoprotein Sensor Device Based on an Organic Transistor. <i>Analytical Chemistry</i> , 2016, 88, 1092-1095.	3.2	49
13	Synthesis, Physical Properties, and Field-Effect Mobility of Isomerically Pure <i>syn</i> -/ <i>anti</i> -Anthradithiophene Derivatives. <i>Organic Letters</i> , 2012, 14, 4062-4065.	2.4	46
14	Flexible organic thin-film transistor immunosensor printed on a one-micron-thick film. <i>Communications Materials</i> , 2021, 2, .	2.9	42
15	Fabrication of a Flexible Biosensor Based on an Organic Field-effect Transistor for Lactate Detection. <i>Analytical Sciences</i> , 2019, 35, 103-106.	0.8	38
16	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.	0.9	35
17	An Organic Field-effect Transistor with an Extended-gate Electrode Capable of Detecting Human Immunoglobulin A. <i>Analytical Sciences</i> , 2015, 31, 725-728.	0.8	32
18	An anion sensor based on an organic field effect transistor. <i>Chemical Communications</i> , 2015, 51, 9491-9494.	2.2	31

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19	An electrolyte-gated polythiophene transistor for the detection of biogenic amines in water. <i>Chemical Communications</i> , 2018, 54, 6907-6910.	2.2	31
20	Label-Free Detection of Human Glycoprotein (CgA) Using an Extended-Gated Organic Transistor-Based Immunosensor. <i>Sensors</i> , 2016, 16, 2033.	2.1	29
21	An Extended-gate Type Organic FET Based Biosensor for Detecting Biogenic Amines in Aqueous Solution. <i>Analytical Sciences</i> , 2015, 31, 721-724.	0.8	26
22	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.	0.8	23
23	Microfluidic System with Extended-Gate-Type Organic Transistor for Real-Time Glucose Monitoring. <i>ChemElectroChem</i> , 2020, 7, 1332-1336.	1.7	23
24	Development of Enzymatic Sensors Based on Extended-gate-type Organic Field-effect Transistors. <i>Electrochemistry</i> , 2018, 86, 303-308.	0.6	18
25	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.	0.7	17
26	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.	1.7	17
27	Extended-gate organic field-effect transistor for the detection of histamine in water. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 04DK02.	0.8	16
28	Development of polymer field-effect transistor-based immunoassays. <i>Polymer Journal</i> , 2019, 51, 1-9.	1.3	16
29	An Organic Transistor-based Electrical Assay for Copper(II) in Water. <i>Electrochemistry</i> , 2017, 85, 775-778.	0.6	15
30	Potentiometric detection of biogenic amines utilizing affinity on a 4-mercaptobenzoic acid monolayer. <i>Analytical Methods</i> , 2019, 11, 1155-1158.	1.3	14
31	Real-Time Detection of Glyphosate by a Water-Gated Organic Field-Effect Transistor with a Microfluidic Chamber. <i>Langmuir</i> , 2021, 37, 7305-7311.	1.6	13
32	Systematic Investigation of Molecular Recognition Ability in FET-Based Chemical Sensors Functionalized with a Mixed Self-Assembled Monolayer System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15903-15910.	4.0	12
33	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.	0.8	10
34	The Power of Assemblies at Interfaces: Nanosensor Platforms Based on Synthetic Receptor Membranes. <i>Sensors</i> , 2020, 20, 2228.	2.1	7
35	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, SGGC07.	0.8	5
36	Protein Assays on Organic Electronics: Rational Device and Material Designs for Organic Transistor-Based Sensors. <i>ChemistryOpen</i> , 2020, 9, 573-581.	0.9	5

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37	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, .	2.6	3
38	An Organic FET with an Aluminum Oxide Extended Gate for pH Sensing. Sensors and Materials, 2019, 31, 99.	0.3	3
39	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.	0.9	1
40	A Water-Gated Organic Thin-Film Transistor for Glyphosate Detection: A Comparative Study with Fluorescence Sensing. Chemistry - A European Journal, 2020, 26, 14506-14506.	1.7	1
41	Development of Supramolecular Sensor Devices Based on Organic Transistors. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2018, 76, 1086-1097.	0.0	1
42	Molecular array device and multivariate analysis for biological fluids. Denki Kagaku, 2020, 88, 262-271.	0.0	1
43	Sensitive Detection of Glyphosate by a Water-Gated Organic Transistor. ECS Transactions, 2020, 98, 41-46.	0.3	1
44	Development of Organic Thin-film Transistors with Molecular Recognition Ability for Chemical Sensing. Bunseki Kagaku, 2018, 67, 229-237.	0.1	0
45	Sensitive Detection of Glyphosate By a Water-Gated Organic Transistor. ECS Meeting Abstracts, 2020, MA2020-01, 1879-1879.	0.0	0
46	Sensitive Detection of Glyphosate by a Water-Gated Organic Transistor. ECS Meeting Abstracts, 2020, MA2020-02, 3380-3380.	0.0	0