Takahito Ohshiro

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6322213/publications.pdf

Version: 2024-02-01

22	720	840776 11	677142 22
papers	citations	h-index	g-index

22	22	22	693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-Molecule Electrical Random Resequencing of DNA and RNA. Scientific Reports, 2012, 2, 501.	3.3	131
2	Complementary base-pair-facilitated electron tunneling for electrically pinpointing complementary nucleobases. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10-14.	7.1	129
3	Detection of post-translational modifications in single peptides using electron tunnelling currents. Nature Nanotechnology, 2014, 9, 835-840.	31.5	122
4	Electrical Detection of Single Methylcytosines in a DNA Oligomer. Journal of the American Chemical Society, 2011, 133, 9124-9128.	13.7	76
5	Scanning Tunneling Microscopy with Chemically Modified Tips:â€‰ Discrimination of Porphyrin Centers Based on Metal Coordination and Hydrogen Bond Interactions. Analytical Chemistry, 2001, 73, 878-883.	6.5	67
6	High-Precision Single-Molecule Identification Based on Single-Molecule Information within a Noisy Matrix. Journal of Physical Chemistry C, 2019, 123, 15867-15873.	3.1	33
7	Quantitative analysis of DNA with single-molecule sequencing. Scientific Reports, 2018, 8, 8517.	3.3	31
8	Highly Conductive Nucleotide Analogue Facilitates Base-Calling in Quantum-Tunneling-Based DNA Sequencing. ACS Nano, 2019, 13, 5028-5035.	14.6	22
9	Direct Analysis of Incorporation of an Anticancer Drug into DNA at Single-Molecule Resolution. Scientific Reports, 2019, 9, 3886.	3.3	19
10	Time-resolved neurotransmitter detection in mouse brain tissue using an artificial intelligence-nanogap. Scientific Reports, 2020, 10, 11244.	3.3	18
11	Single-molecule RNA sequencing for simultaneous detection of m6A and 5mC. Scientific Reports, 2021, 11, 19304.	3.3	16
12	Single-Molecule Counting of Nucleotide by Electrophoresis with Nanochannel-Integrated Nano-Gap Devices. Micromachines, 2020, 11, 982.	2.9	9
13	Detection of an alcohol-associated cancer marker by single-molecule quantum sequencing. Chemical Communications, 2020, 56, 14299-14302.	4.1	8
14	Length Discrimination of Homo-oligomeric Nucleic Acids with Single-molecule Measurement. Analytical Sciences, 2021, 37, 513-517.	1.6	7
15	Review of the use of nanodevices to detect single molecules. Analytical Biochemistry, 2022, 654, 114645.	2.4	7
16	Development of Single-Molecule Electrical Identification Method for Cyclic Adenosine Monophosphate Signaling Pathway. Nanomaterials, 2021, 11, 784.	4.1	5
17	Nanodevices for Biological and Medical Applications: Development of Single-Molecule Electrical Measurement Method. Applied Sciences (Switzerland), 2022, 12, 1539.	2.5	5
18	Nanopore Device for Single-Molecule Sensing Method and Its Application. Bioanalysis, 2019, , 301-324.	0.1	4

#	Article	IF	Citations
19	Singleâ€Molecule Classification of Aspartic Acid and Leucine by Molecular Recognition through Hydrogen Bonding and Timeâ€Series Analysis. Chemistry - an Asian Journal, 2022, 17, .	3.3	4
20	Chemicalâ€Labelingâ€Assisted Detection of Nucleobase Modifications by Quantumâ€Tunnelingâ€Based Singleâ€Molecule Sensing. ChemBioChem, 2020, 21, 335-339.	2.6	3
21	Electrical Nucleotide Sensor Based on Synthetic Guanineâ€Receptorâ€Modified Electrodes. ChemistrySelect, 2018, 3, 3819-3824.	1.5	2
22	Key aurophilic motif for robust quantum-tunneling-based characterization of a nucleoside analogue marker. Chemical Science, 2020, 11, 10135-10142.	7.4	2