Kazumichi Yokota

List of Publications by Year
in descending order

68 papers	1,726 citations	361045 20 h-index	288905 40 g-index
68 all docs	68 docs citations	68 times ranked	1868 citing authors

#	Article	IF	Citations
1	Ionic heat dissipation in solid-state pores. Science Advances, 2022, 8, eabl7002.	4.7	12
2	Interleukin-1Î² released from macrophages stimulated with indium tin oxide nanoparticles induces epithelial-mesenchymal transition in A549 cells. Environmental Science: Nano, 2022, 9, 1489-1508.	2.2	2
3	Dependence of Molecular Diode Behaviors on Aromaticity. Journal of Physical Chemistry Letters, 2022, 13, 6359-6366.	2.1	5
4	Inertial focusing and zeta potential measurements of single-nanoparticles using octet-nanochannels. Lab on A Chip, 2021, 21, 3076-3085.	3.1	0
5	Effect of Electrolyte Concentration on Cell Sensing by Measuring Ionic Current Waveform through Micropores. Biosensors, 2021, 11, 78.	2.3	2
6	Field effect control of translocation dynamics in surround-gate nanopores. Communications Materials, 2021, 2, .	2.9	14
7	Rapid Discrimination of Extracellular Vesicles by Shape Distribution Analysis. Analytical Chemistry, 2021, 93, 7037-7044.	3.2	15
8	Deep Learningâ€Enhanced Nanopore Sensing of Singleâ€Nanoparticle Translocation Dynamics. Small Methods, 2021, 5, e2100191.	4.6	12
9	Detecting Single Molecule Deoxyribonucleic Acid in a Cell Using a Threeâ€Dimensionally Integrated Nanopore. Small Methods, 2021, 5, 2100542.	4.6	4
10	Application of Micropore Device for Accurate, Easy, and Rapid Discrimination of Saccharomyces pastorianus from Dekkera spp.. Biosensors, 2021, 11, 272.	2.3	1
11	Salt Gradient Control of Translocation Dynamics in a Solid-State Nanopore. Analytical Chemistry, 2021, 93, 16700-16708.	3.2	5
12	Tailoring Dielectric Surface Charge via Atomic Layer Thickness. ACS Applied Materials & Interfaces, 2020, 12, 5025-5030.	4.0	5
13	Quantitative Detection of Plasmodium falciparum Using, LUNA-FL, A Fluorescent Cell Counter. Microorganisms, 2020, 8, 1356.	1.6	1
14	The effect of a two-dimensional structure on the dielectric constant and photovoltaic characteristics. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112756.	2.0	6
15	Highly Sensitive and Rapid Quantitative Detection of Plasmodium falciparum Using an Image Cytometer. Microorganisms, 2020, 8, 1769.	1.6	0
16	Nano-corrugated Nanochannels for In Situ Tracking of Single-Nanoparticle Translocation Dynamics. ACS Sensors, 2020, 5, 2530-2536.	4.0	3
17	Machine learning-driven electronic identifications of single pathogenic bacteria. Scientific Reports, 2020, 10, 15525.	1.6	9
18	Digital Pathology Platform for Respiratory Tract Infection Diagnosis via Multiplex Single-Particle Detections. ACS Sensors, 2020, 5, 3398-3403.	4.0	21

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19	Thermally activated charge transport in carbon atom chains. Nanoscale, 2020, 12, 11001-11007.	2.8	1
20	Nucleic acid purification from dried blood spot on FTA Elute Card provides template for polymerase chain reaction for highly sensitive Plasmodium detection. Parasitology International, 2019, 73, 101941.	0.6	15
21	Solid-State Nanopore Time-of-Flight Mass Spectrometer. ACS Sensors, 2019, 4, 2974-2979.	4.0	17
22	High-throughput single-particle detections using a dual-height-channel-integrated pore. Lab on A Chip, 2019, 19, 1352-1358.	3.1	4
23	Electric field interference and bimodal particle translocation in nano-integrated multipores. Nanoscale, 2019, 11, 7547-7553.	2.8	6
24	Silicon substrate effects on ionic current blockade in solid-state nanopores. Nanoscale, 2019, 11, 4190-4197.	2.8	5
25	Identifying Single Particles in Air Using a 3D-Integrated Solid-State Pore. ACS Sensors, 2019, 4, 748-755.	4.0	17
26	High-throughput single nanoparticle detection using a feed-through channel-integrated nanopore. Nanoscale, 2019, 11, 20475-20484.	2.8	10
27	Small-scale culture of Plasmodium falciparum using Î¼-Slide Angiogenesis followed by automatic infection rate counting to assess drug effects. Parasitology International, 2019, 69, 54-58.	0.6	0
28	Loop-Mediated Isothermal Amplification in Microchambers on a Cell Microarray Chip for Identification of Plasmodium Species. Journal of Parasitology, 2019, 105, 69.	0.3	3
29	Electrical Nucleotide Sensor Based on Synthetic Guanineâ€Receptorâ€Modified Electrodes. ChemistrySelect, 2018, 3, 3819-3824.	0.7	2
30	Identification of Individual Bacterial Cells through the Intermolecular Interactions with Peptide-Functionalized Solid-State Pores. Analytical Chemistry, 2018, 90, 1511-1515.	3.2	34
31	Identifying Single Viruses Using Biorecognition Solid-State Nanopores. Journal of the American Chemical Society, 2018, 140, 16834-16841.	6.6	81
32	Particle Capture in Solid-State Multipores. ACS Sensors, 2018, 3, 2693-2701.	4.0	10
33	Selective detections of single-viruses using solid-state nanopores. Scientific Reports, 2018, 8, 16305.	1.6	65
34	Temporal Response of Ionic Current Blockade in Solid-State Nanopores. ACS Applied Materials & Interfaces, 2018, 10, 34751-34757.	4.0	22
35	Remote heat dissipation in atom-sized contacts. Scientific Reports, 2018, 8, 7842.	1.6	3
36	Quantitative analysis of DNA with single-molecule sequencing. Scientific Reports, 2018, 8, 8517.	1.6	31

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37	Roles of vacuum tunnelling and contact mechanics in single-molecule thermopower. Scientific Reports, 2017, 7, 44276.	1.6	9
38	Fast and low-noise tunnelling current measurements for single-molecule detection in an electrolyte solution using insulator-protected nanoelectrodes. Nanoscale, 2017, 9, 4076-4081.	2.8	13
39	Rapid structural analysis of nanomaterials in aqueous solutions. Nanotechnology, 2017, 28, 155501.	1.3	26
40	Discriminating single-bacterial shape using low-aspect-ratio pores. Scientific Reports, 2017, 7, 17371.	1.6	58
41	Detecting Single-Nucleotides by Tunneling Current Measurements at Sub-MHz Temporal Resolution. Sensors, 2017, 17, 885.	2.1	8
42	Dipole effects on the formation of molecular junctions. Nanoscale Horizons, 2016, 1, 399-406.	4.1	9
43	Particle Trajectory-Dependent Ionic Current Blockade in Low-Aspect-Ratio Pores. ACS Nano, 2016, 10, 803-809.	7.3	69
44	Development of a Single Molecular Tunnel-Current Identification method For Electrical Genome Sequencing. Materials Research Society Symposia Proceedings, 2015, 1724, 13.	0.1	0
45	Fabrications of insulator-protected nanometer-sized electrode gaps. Journal of Applied Physics, 2014, 115, .	1.1	14
46	Electrode-embedded nanopores for label-free single-molecule sequencing by electric currents. RSC Advances, 2014, 4, 15886-15899.	1.7	40
47	Polaron coupling in graphene field effect transistors on patterned self-assembled monolayer. Physical Chemistry Chemical Physics, 2014, 16, 4313.	1.3	10
48	Detection of post-translational modifications in single peptides using electron tunnelling currents. Nature Nanotechnology, 2014, 9, 835-840.	15.6	122
49	Graphene/hexagonal boron nitride/graphene nanopore for electrical detection of single molecules. NPG Asia Materials, 2014, 6, e104-e104.	3.8	17
50	Development of single-molecule tunnel-current based nucleotide identification method. , 2014, , .		0
51	High speed DNA denaturation using microheating devices. Applied Physics Letters, 2013, 103, 023112.	1.5	4
52	Magnetic Properties and Interplay between Nanographene Host and Nitric Acid Guest in Nanographene-Based Nanoporous Carbon. Bulletin of the Chemical Society of Japan, 2012, 85, 376-388.	2.0	2
53	Carrier Control of Graphene Driven by the Proximity Effect of Functionalized Self-assembled Monolayers. Nano Letters, 2011, 11, 3669-3675.	4.5	83
54	Molecular vibrations in metalâ€“single-moleculeâ€“metal junctions. Chemical Physics Letters, 2010, 487, 268-271.	1.2	2

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55	Identifying single nucleotides by tunnelling current. Nature Nanotechnology, 2010, 5, 286-290.	15.6	367
56	Roles of lattice cooling on local heating in metal-molecule-metal junctions. Applied Physics Letters, 2010, 96, .	1.5	18
57	Metalâ^'Molecule Interfaces Formed by Noble-Metalâ^'Chalcogen Bonds for Nanoscale Molecular Devices. Journal of Physical Chemistry C, 2010, 114, 4044-4050.	1.5	13
58	Mechanically-controllable single molecule switch based on configuration specific electrical conductivity of metalâ€"moleculeâ€"metal junctions. Chemical Science, 2010, 1, 247.	3.7	36
59	Moleculeâ^'Electrode Bonding Design for High Single-Molecule Conductance. Journal of the American Chemical Society, 2010, 132, 17364-17365.	6.6	25
60	Identifying molecular signatures in metal-molecule-metal junctions. Nanoscale, 2009, 1, 164.	2.8	37
61	Inelastic electron tunneling spectroscopy of single-molecule junctions using a mechanically controllable break junction. Nanotechnology, 2009, 20, 434008.	1.3	49
62	Fabrication of the gating nanopore device. Applied Physics Letters, 2009, 95, 123701.	1.5	47
63	Enhancement of Oxide VLS Growth by Carbon on Substrate Surface. Journal of Physical Chemistry C, 2008, 112, 18923-18926.	1.5	41
64	Metallic nature of metal-molecule interface formed by Au-Se bonds. Physical Review B, 2008, 77, .	1.1	12
65	Control of the Electrodeâ^'Molecule Interface for Molecular Devices. Journal of the American Chemical Society, 2007, 129, 5818-5819.	6.6	47
66	Time-resolved electrical conductance spectroscopy of chemical reactions on nano-space. Chemical Physics, 2006, 330, 184-189.	0.9	1
67	Self-Organized Interconnect Method for Molecular Devices. Journal of the American Chemical Society, 2006, 128, 15062-15063.	6.6	103
68	Approach to electrical conductance spectroscopy of chemical reactions on nano-space. Chemical Physics Letters, 2005, 410, 147-150.	1.2	1