Akihide Arima

List of Publications by Year
in descending order

21	455	759233 12	713466 21
papers	citations	h-index	g-index

21	21	21	460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying Single Viruses Using Biorecognition Solid-State Nanopores. Journal of the American Chemical Society, 2018, 140, 16834-16841.	13.7	81
2	Particle Trajectory-Dependent Ionic Current Blockade in Low-Aspect-Ratio Pores. ACS Nano, 2016, 10, 803-809.	14.6	69
3	Solid-State Nanopore Platform Integrated with Machine Learning for Digital Diagnosis of Virus Infection. Analytical Chemistry, 2021, 93, 215-227.	6.5	52
4	Identification of Individual Bacterial Cells through the Intermolecular Interactions with Peptide-Functionalized Solid-State Pores. Analytical Chemistry, 2018, 90, 1511-1515.	6.5	34
5	Thermoelectric voltage measurements of atomic and molecular wires using microheater-embedded mechanically-controllable break junctions. Nanoscale, 2014, 6, 8235-8241.	5.6	33
6	Rapid structural analysis of nanomaterials in aqueous solutions. Nanotechnology, 2017, 28, 155501.	2.6	26
7	Temporal Response of Ionic Current Blockade in Solid-State Nanopores. ACS Applied Materials & Interfaces, 2018, 10, 34751-34757.	8.0	22
8	Digital Pathology Platform for Respiratory Tract Infection Diagnosis via Multiplex Single-Particle Detections. ACS Sensors, 2020, 5, 3398-3403.	7.8	21
9	Ammonia-Induced Seed Layer Transformations in a Hydrothermal Growth Process of Zinc Oxide Nanowires. Journal of Physical Chemistry C, 2020, 124, 20563-20568.	3.1	18
10	Solid-State Nanopore Time-of-Flight Mass Spectrometer. ACS Sensors, 2019, 4, 2974-2979.	7.8	17
11	Fabrications of insulator-protected nanometer-sized electrode gaps. Journal of Applied Physics, 2014, 115, .	2.5	14
12	Discrimination of equi-sized nanoparticles by surface charge state using low-aspect-ratio pore sensors. Applied Physics Letters, 2014, 104, .	3.3	14
13	Particle Capture in Solid-State Multipores. ACS Sensors, 2018, 3, 2693-2701.	7.8	10
14	High-throughput single nanoparticle detection using a feed-through channel-integrated nanopore. Nanoscale, 2019, 11, 20475-20484.	5.6	10
15	Electrical trapping mechanism of single-microparticles in a pore sensor. AIP Advances, 2016, 6, 115004.	1.3	6
16	Electric field interference and bimodal particle translocation in nano-integrated multipores. Nanoscale, 2019, 11, 7547-7553.	5.6	6
17	Silicon substrate effects on ionic current blockade in solid-state nanopores. Nanoscale, 2019, 11, 4190-4197.	5.6	5
18	Tailoring Dielectric Surface Charge via Atomic Layer Thickness. ACS Applied Materials & Interfaces, 2020, 12, 5025-5030.	8.0	5

#	Article	IF	Citations
19	Volume discrimination of nanoparticles via electrical trapping using nanopores. Journal of Nanobiotechnology, 2019, 17, 40.	9.1	4
20	High-throughput single-particle detections using a dual-height-channel-integrated pore. Lab on A Chip, 2019, 19, 1352-1358.	6.0	4
21	ZnO/SiO₂ core/shell nanowires for capturing CpG rich single-stranded DNAs. Analytical Methods, 2021, 13, 337-344.	2.7	4