Sakon Rahong

List of Publications by Year
in descending order

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52 papers	1,099 citations	471509 17 h-index	395702 33 g-index
52 all docs	52 docs citations	52 times ranked	1865 citing authors

#	Article	IF	Citations
1	Unveiling massive numbers of cancer-related urinary-microRNA candidates via nanowires. Science Advances, 2017, 3, e1701133.	10.3	170
2	Cellulose Nanofiber Paper as an Ultra Flexible Nonvolatile Memory. Scientific Reports, 2014, 4, 5532.	3.3	122
3	Single-molecule sensing electrode embedded in-plane nanopore. Scientific Reports, 2011, 1, 46.	3.3	80
4	Crystal-Plane Dependence of Critical Concentration for Nucleation on Hydrothermal ZnO Nanowires. Journal of Physical Chemistry C, 2013, 117, 1197-1203.	3.1	67
5	DNA Manipulation and Separation in Sublithographic-Scale Nanowire Array. ACS Nano, 2013, 7, 3029-3035.	14.6	61
6	Transverse electric field dragging of DNA in a nanochannel. Scientific Reports, 2012, 2, 394.	3.3	60
7	Ultrafast and Wide Range Analysis of DNA Molecules Using Rigid Network Structure of Solid Nanowires. Scientific Reports, 2014, 4, 5252.	3.3	54
8	Impact of Preferential Indium Nucleation on Electrical Conductivity of Vaporâ€“Liquidâ€“Solid Grown Indiumâ€“Tin Oxide Nanowires. Journal of the American Chemical Society, 2013, 135, 7033-7038.	13.7	44
9	Recent developments in nanowires for bio-applications from molecular to cellular levels. Lab on A Chip, 2016, 16, 1126-1138.	6.0	43
10	Prominent Thermodynamical Interaction with Surroundings on Nanoscale Memristive Switching of Metal Oxides. Nano Letters, 2012, 12, 5684-5690.	9.1	40
11	Three-dimensional Nanowire Structures for Ultra-Fast Separation of DNA, Protein and RNA Molecules. Scientific Reports, 2015, 5, 10584.	3.3	39
12	Fundamental Strategy for Creating VLS Grown TiO₂ Single Crystalline Nanowires. Journal of Physical Chemistry C, 2012, 116, 24367-24372.	3.1	28
13	Carrier type dependence on spatial asymmetry of unipolar resistive switching of metal oxides. Applied Physics Letters, 2013, 103, .	3.3	24
14	Facile and scalable patterning of sublithographic scale uniform nanowires by ultra-thin AAO free-standing membrane. RSC Advances, 2012, 2, 10618.	3.6	22
15	Study on transport pathway in oxide nanowire growth by using spacing-controlled regular array. Applied Physics Letters, 2011, 99, 193105.	3.3	20
16	A flux induced crystal phase transition in the vaporâ€“liquidâ€“solid growth of indium-tin oxide nanowires. Nanoscale, 2014, 6, 7033.	5.6	20
17	Pressure-induced evaporation dynamics of gold nanoparticles on oxide substrate. Physical Review E, 2013, 87, 012405.	2.1	18
18	PDMS Based Thermopnuematic Peristaltic Micropump for Microfluidic Systems. Journal of Physics: Conference Series, 2006, 34, 564-569.	0.4	17

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19	Engineering Nanowire-Mediated Cell Lysis for Microbial Cell Identification. ACS Nano, 2019, 13, 2262-2273.	14.6	17
20	Modulation of Thermoelectric Power Factor via Radial Dopant Inhomogeneity in B-Doped Si Nanowires. Journal of the American Chemical Society, 2014, 136, 14100-14106.	13.7	16
21	Self-assembled Nanowire Arrays as Three-dimensional Nanopores for Filtration of DNA Molecules. Analytical Sciences, 2015, 31, 153-157.	1.6	13
22	A millisecond micro-RNA separation technique by a hybrid structure of nanopillars and nanoslits. Scientific Reports, 2017, 7, 43877.	3.3	13
23	Switching Properties of Titanium Dioxide Nanowire Memristor. Japanese Journal of Applied Physics, 2012, 51, 11PE09.	1.5	13
24	Advanced Photoassisted Atomic Switches Produced Using ITO Nanowire Electrodes and Molten Photoconductive Organic Semiconductors. Advanced Materials, 2013, 25, 5893-5897.	21.0	11
25	Identifying DNA methylation in a nanochannel. Science and Technology of Advanced Materials, 2016, 17, 644-649.	6.1	11
26	Switching Properties of Titanium Dioxide Nanowire Memristor. Japanese Journal of Applied Physics, 2012, 51, 11PE09.	1.5	10
27	Nanoscale Size-Selective Deposition of Nanowires by Micrometer Scale Hydrophilic Patterns. Scientific Reports, 2014, 4, 5943.	3.3	9
28	Observation of optical transition energy in ZnSe/tris(8-hydroxyquinoline) aluminum (Alq3)/ZnSe single quantum wells by photoreflectance spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1070-1073.	2.7	7
29	Nanopillar, Nanowall, and Nanowire Devices for Fast Separation of Biomolecules. Israel Journal of Chemistry, 2014, 54, 1556-1563.	2.3	7
30	Microheater-integrated zinc oxide nanowire microfluidic device for hybridization-based detection of target single-stranded DNA. Nanotechnology, 2021, 32, 255301.	2.6	6
31	Annealed ZnO/Al2O3 Core-Shell Nanowire as a Platform to Capture RNA in Blood Plasma. Nanomaterials, 2021, 11, 1768.	4.1	5
32	Electroreflectance study of antimony doped ZnO thin films grown by pulsed laser deposition. Optical Materials, 2021, 120, 111461.	3.6	5
33	Gold nanoparticles decorated zinc oxide nanorods as electrodes for a highly sensitive non-enzymatic electrochemical glucose detection. Japanese Journal of Applied Physics, 2019, 58, SDDE04.	1.5	4
34	Electroreflectance and photocurrent measurement of ZnSe/Alq3/TPD heterostructure on Si-substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 123, 163-166.	3.5	3
35	GROWTH TIME DEPENDENCE ON PHOTOELECTROCHEMICAL PROPERTY OF ZINC OXIDE NANORODS PREPARED BY HYDROTHERMAL SYNTHESIS. Surface Review and Letters, 2018, 25, 1840001.	1.1	3
36	Improving Malaria Diagnosis via Latex Immunoagglutination Assay in Microfluidic Device. Advanced Materials Research, 0, 93-94, 292-295.	0.3	2

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37	A tunable thermal switching device based on Joule heating-induced metalâ€“insulator transition in VO₂ thin films via an external electric field. Japanese Journal of Applied Physics, 2019, 58, SDDE12.	1.5	2
38	Modification of a photoanode by means of localized surface plasmon resonance from Au nanoparticles decorated on ZnO nanorods for photoelectrochemical applications. Japanese Journal of Applied Physics, 2019, 58, SDDE11.	1.5	2
39	Influence of aluminum-doped zinc oxide seeding film on morphological properties of hydrothermally-grown zinc oxide nanorods. Japanese Journal of Applied Physics, 2020, 59, 035502.	1.5	2
40	Phase evolution in annealed Ni-doped WO3 nanorod films prepared via a glancing angle deposition technique for enhanced photoelectrochemical performance. Applied Surface Science, 2022, 584, 152581.	6.1	2
41	A Disposable Polydimethylsiloxane Microdevice for DNA Amplification. Advanced Materials Research, 0, 93-94, 105-108.	0.3	1
42	Modification of the optical properties of polydimethylsiloxane (PDMS) for photonic crystal biosensor application. , 2010, , .		1
43	Effect of DNA Methylation on the Velocity of DNA Translocation through a Nanochannel. Analytical Sciences, 2017, 33, 727-730.	1.6	1
44	Nanostructures Integrated with a Nanochannel for Slowing Down DNA Translocation Velocity for Nanopore Sequencing. Analytical Sciences, 2017, 33, 735-738.	1.6	1
45	Influence of the annealing temperature on the organometallic halide perovskite phase formation via CH3NH3Cl as additive in sequential deposition process. Materials Today: Proceedings, 2019, 17, 1575-1580.	1.8	1
46	The enhancement of sensitivity and response times of PDMS-based capacitive force sensor by means of active layer modification. Japanese Journal of Applied Physics, 2021, 60, SCCE09.	1.5	1
47	ZnO Nanorods Grown on Heterogenous Ag Seed Layers for Single-Cell Fluorescence Bioassays. ACS Applied Nano Materials, 2021, 4, 7384-7394.	5.0	1
48	Modulation Spectroscopy Study of Inorganic-Organic Hybrid Quantum Well-like Nanostructures. , 2007, , .		0
49	High Refractive Index Dielectric Prepared by Electron Beam Evaporation for Photonic Crystal Optical Biosensor Application. Advanced Materials Research, 0, 93-94, 545-548.	0.3	0
50	Study of optical and electrical properties of tin doped cobalt-phthalocyanine thin films prepared by thermal co-evaporation. AIP Conference Proceedings, 2018, , .	0.4	0
51	Title is missing!. ScienceAsia, 2006, 32, 223.	0.5	0
52	Enhancement of sensing characteristics of Polydimethylsiloxaneâ€based capacitive force sensor by introducing conductive polymer to dielectric layer. Electronics Letters, 2021, 57, 64-67.	1.0	0