

# Sakon Rahong

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Phase evolution in annealed Ni-doped WO <sub>3</sub> nanorod films prepared via a glancing angle deposition technique for enhanced photoelectrochemical performance. Applied Surface Science, 2022, 584, 152581.	6.1	2
2	Microheater-integrated zinc oxide nanowire microfluidic device for hybridization-based detection of target single-stranded DNA. Nanotechnology, 2021, 32, 255301.	2.6	6
3	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
4	ZnO Nanorods Grown on Heterogenous Ag Seed Layers for Single-Cell Fluorescence Bioassays. ACS Applied Nano Materials, 2021, 4, 7384-7394.	5.0	1
5	Annealed ZnO/Al <sub>2</sub> O <sub>3</sub> Core-Shell Nanowire as a Platform to Capture RNA in Blood Plasma. Nanomaterials, 2021, 11, 1768.	4.1	5
6	Electroreflectance study of antimony doped ZnO thin films grown by pulsed laser deposition. Optical Materials, 2021, 120, 111461.	3.6	5
7	Enhancement of sensing characteristics of Polydimethylsiloxane-based capacitive force sensor by introducing conductive polymer to dielectric layer. Electronics Letters, 2021, 57, 64-67.	1.0	0
8	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
9	A tunable thermal switching device based on Joule heating-induced metal-insulator transition in VO <sub>2</sub> thin films via an external electric field. Japanese Journal of Applied Physics, 2019, 58, SDDE12.	1.5	2
10	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
11	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
12	Influence of the annealing temperature on the organometallic halide perovskite phase formation via CH <sub>3</sub> NH <sub>3</sub> Cl as additive in sequential deposition process. Materials Today: Proceedings, 2019, 17, 1575-1580.	1.8	1
13	Engineering Nanowire-Mediated Cell Lysis for Microbial Cell Identification. ACS Nano, 2019, 13, 2262-2273.	14.6	17
14	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
15	GROWTH TIME DEPENDENCE ON PHOTOELECTROCHEMICAL PROPERTY OF ZINC OXIDE NANORODS PREPARED BY HYDROTHERMAL SYNTHESIS. Surface Review and Letters, 2018, 25, 1840001.	1.1	3
16	A millisecond micro-RNA separation technique by a hybrid structure of nanopillars and nanoslits. Scientific Reports, 2017, 7, 43877.	3.3	13
17	Unveiling massive numbers of cancer-related urinary-microRNA candidates via nanowires. Science Advances, 2017, 3, e1701133.	10.3	170
18	Effect of DNA Methylation on the Velocity of DNA Translocation through a Nanochannel. Analytical Sciences, 2017, 33, 727-730.	1.6	1

#	ARTICLE	IF	CITATIONS
19	Nanostructures Integrated with a Nanochannel for Slowing Down DNA Translocation Velocity for Nanopore Sequencing. <i>Analytical Sciences</i> , 2017, 33, 735-738.	1.6	1
20	Identifying DNA methylation in a nanochannel. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 644-649.	6.1	11
21	Recent developments in nanowires for bio-applications from molecular to cellular levels. <i>Lab on A Chip</i> , 2016, 16, 1126-1138.	6.0	43
22	Self-assembled Nanowire Arrays as Three-dimensional Nanopores for Filtration of DNA Molecules. <i>Analytical Sciences</i> , 2015, 31, 153-157.	1.6	13
23	Three-dimensional Nanowire Structures for Ultra-Fast Separation of DNA, Protein and RNA Molecules. <i>Scientific Reports</i> , 2015, 5, 10584.	3.3	39
24	A flux induced crystal phase transition in the vapor-liquid-solid growth of indium-tin oxide nanowires. <i>Nanoscale</i> , 2014, 6, 7033.	5.6	20
25	Modulation of Thermoelectric Power Factor via Radial Dopant Inhomogeneity in B-Doped Si Nanowires. <i>Journal of the American Chemical Society</i> , 2014, 136, 14100-14106.	13.7	16
26	Nanopillar, Nanowall, and Nanowire Devices for Fast Separation of Biomolecules. <i>Israel Journal of Chemistry</i> , 2014, 54, 1556-1563.	2.3	7
27	Nanoscale Size-Selective Deposition of Nanowires by Micrometer Scale Hydrophilic Patterns. <i>Scientific Reports</i> , 2014, 4, 5943.	3.3	9
28	Ultrafast and Wide Range Analysis of DNA Molecules Using Rigid Network Structure of Solid Nanowires. <i>Scientific Reports</i> , 2014, 4, 5252.	3.3	54
29	Cellulose Nanofiber Paper as an Ultra Flexible Nonvolatile Memory. <i>Scientific Reports</i> , 2014, 4, 5532.	3.3	122
30	Crystal-Plane Dependence of Critical Concentration for Nucleation on Hydrothermal ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1197-1203.	3.1	67
31	Impact of Preferential Indium Nucleation on Electrical Conductivity of Vapor-Liquid-Solid Grown Indium-Tin Oxide Nanowires. <i>Journal of the American Chemical Society</i> , 2013, 135, 7033-7038.	13.7	44
32	Advanced Photoassisted Atomic Switches Produced Using ITO Nanowire Electrodes and Molten Photoconductive Organic Semiconductors. <i>Advanced Materials</i> , 2013, 25, 5893-5897.	21.0	11
33	DNA Manipulation and Separation in Sublithographic-Scale Nanowire Array. <i>ACS Nano</i> , 2013, 7, 3029-3035.	14.6	61
34	Pressure-induced evaporation dynamics of gold nanoparticles on oxide substrate. <i>Physical Review E</i> , 2013, 87, 012405.	2.1	18
35	Carrier type dependence on spatial asymmetry of unipolar resistive switching of metal oxides. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	24
36	Transverse electric field dragging of DNA in a nanochannel. <i>Scientific Reports</i> , 2012, 2, 394.	3.3	60

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37	Switching Properties of Titanium Dioxide Nanowire Memristor. Japanese Journal of Applied Physics, 2012, 51, 11PE09.	1.5	10
38	Facile and scalable patterning of sublithographic scale uniform nanowires by ultra-thin AAO free-standing membrane. RSC Advances, 2012, 2, 10618.	3.6	22
39	Fundamental Strategy for Creating VLS Grown TiO <sub>2</sub> Single Crystalline Nanowires. Journal of Physical Chemistry C, 2012, 116, 24367-24372.	3.1	28
40	Prominent Thermodynamical Interaction with Surroundings on Nanoscale Memristive Switching of Metal Oxides. Nano Letters, 2012, 12, 5684-5690.	9.1	40
41	Switching Properties of Titanium Dioxide Nanowire Memristor. Japanese Journal of Applied Physics, 2012, 51, 11PE09.	1.5	13
42	Study on transport pathway in oxide nanowire growth by using spacing-controlled regular array. Applied Physics Letters, 2011, 99, 193105.	3.3	20
43	Single-molecule sensing electrode embedded in-plane nanopore. Scientific Reports, 2011, 1, 46.	3.3	80
44	Modification of the optical properties of polydimethylsiloxane (PDMS) for photonic crystal biosensor application. , 2010, , .		1
45	Modulation Spectroscopy Study of Inorganic-Organic Hybrid Quantum Well-like Nanostructures. , 2007, , .		0
46	PDMS Based Thermopneumatic Peristaltic Micropump for Microfluidic Systems. Journal of Physics: Conference Series, 2006, 34, 564-569.	0.4	17
47	Title is missing!. ScienceAsia, 2006, 32, 223.	0.5	0
48	Electroreflectance and photocurrent measurement of ZnSe/Alq <sub>3</sub> /TPD heterostructure on Si-substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 123, 163-166.	3.5	3
49	Observation of optical transition energy in ZnSe/tris(8-hydroxyquinoline) aluminum (Alq <sub>3</sub> )/ZnSe single quantum wells by photoreflectance spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1070-1073.	2.7	7
50	Improving Malaria Diagnosis via Latex Immunoagglutination Assay in Microfluidic Device. Advanced Materials Research, 0, 93-94, 292-295.	0.3	2
51	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
52	A Disposable Polydimethylsiloxane Microdevice for DNA Amplification. Advanced Materials Research, 0, 93-94, 105-108.	0.3	1