Kazuki Nagashima

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7267195/publications.pdf

Version: 2024-02-01

68 papers	2,373 citations	201674 27 h-index	214800 47 g-index
68 all docs	68 docs citations	68 times ranked	2894 citing authors

#	Article	IF	Citations
1	Mechanistic Approach for Long-Term Stability of a Polyethylene Glycolâ€“Carbon Black Nanocomposite Sensor. ACS Sensors, 2022, 7, 151-158.	7.8	3
2	Impact of Lateral SnO₂ Nanofilm Channel Geometry on a 1024 Crossbar Chemical Sensor Array. ACS Sensors, 2022, 7, 460-468.	7.8	6
3	Water-Selective Nanostructured Dehumidifiers for Molecular Sensing Spaces. ACS Sensors, 2022, 7, 534-544.	7.8	3
4	Edge-Topological Regulation for in Situ Fabrication of Bridging Nanosensors. Nano Letters, 2022, 22, 2569-2577.	9.1	3
5	Surface Dissociation Effect on Phosphonic Acid Self-Assembled Monolayer Formation on ZnO Nanowires. ACS Omega, 2022, 7, 1462-1467.	3.5	3
6	Nanocellulose Paper Semiconductor with a 3D Network Structure and Its Nanoâ€“Microâ€“Macro Trans-Scale Design. ACS Nano, 2022, 16, 8630-8640.	14.6	21
7	Breath odor-based individual authentication by an artificial olfactory sensor system and machine learning. Chemical Communications, 2022, 58, 6377-6380.	4.1	9
8	The impact of surface Cu²⁺ of ZnO/(Cu_{1â^'x}Zn_x)O heterostructured nanowires on the adsorption and chemical transformation of carbonyl compounds. Chemical Science, 2021, 12, 5073-5081.	7.4	5
9	Nanowire-based sensor electronics for chemical and biological applications. Analyst, The, 2021, 146, 6684-6725.	3.5	16
10	Enhancement of pH Tolerance in Conductive Al-Doped ZnO Nanofilms via Sequential Annealing. ACS Applied Electronic Materials, 2021, 3, 955-962.	4.3	4
11	Rational Strategy for Space-Confined Seeded Growth of ZnO Nanowires in Meter-Long Microtubes. ACS Applied Materials & Interfaces, 2021, 13, 16812-16819.	8.0	4
12	Maximizing Conversion of Surface Click Reactions for Versatile Molecular Modification on Metal Oxide Nanowires. Langmuir, 2021, 37, 5172-5179.	3.5	3
13	Robust and Electrically Conductive ZnO Thin Films and Nanostructures: Their Applications in Thermally and Chemically Harsh Environments. ACS Applied Electronic Materials, 2021, 3, 2925-2940.	4.3	5
14	A thermally robust and strongly oxidizing surface of WO₃hydrate nanowires for electrical aldehyde sensing with long-term stability. Journal of Materials Chemistry A, 2021, 9, 5815-5824.	10.3	11
15	ZnO/SiO₂ core/shell nanowires for capturing CpG rich single-stranded DNAs. Analytical Methods, 2021, 13, 337-344.	2.7	4
16	Image Processing and Machine Learning for Automated Identification of Chemo-/Biomarkers in Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2021, 93, 14708-14715.	6.5	9
17	Discriminating BTX Molecules by the Nonselective Metal Oxide Sensor-Based Smart Sensing System. ACS Sensors, 2021, 6, 4167-4175.	7.8	19
18	Synthesis of Monodispersedly Sized ZnO Nanowires from Randomly Sized Seeds. Nano Letters, 2020, 20, 599-605.	9.1	40

#	Article	IF	Citations
19	Oxygen-Induced Reversible Sn-Dopant Deactivation between Indium Tin Oxide and Single-Crystalline Oxide Nanowire Leading to Interfacial Switching. ACS Applied Materials & Interfaces, 2020, 12, 52929-52936.	8.0	6
20	Artificial visual systems enabled by quasiâ€“two-dimensional electron gases in oxide superlattice nanowires. Science Advances, 2020, 6, .	10.3	51
21	Face-selective tungstate ions drive zinc oxide nanowire growth direction and dopant incorporation. Communications Materials, 2020, 1, .	6.9	12
22	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
23	Perovskite Coreâ€“Shell Nanowire Transistors: Interfacial Transfer Doping and Surface Passivation. ACS Nano, 2020, 14, 12749-12760.	14.6	34
24	Phosphonic Acid Modified ZnO Nanowire Sensors: Directing Reaction Pathway of Volatile Carbonyl Compounds. ACS Applied Materials & Interfaces, 2020, 12, 44265-44272.	8.0	19
25	Unusual Sequential Annealing Effect in Achieving High Thermal Stability of Conductive Al-Doped ZnO Nanofilms. ACS Applied Electronic Materials, 2020, 2, 2064-2070.	4.3	10
26	Face-Selective Crystal Growth of Hydrothermal Tungsten Oxide Nanowires for Sensing Volatile Molecules. ACS Applied Nano Materials, 2020, 3, 10252-10260.	5.0	8
27	Redox-Inactive CO₂ Determines Atmospheric Stability of Electrical Properties of ZnO Nanowire Devices through a Room-Temperature Surface Reaction. ACS Applied Materials & Interfaces, 2019, 11, 40260-40266.	8.0	12
28	Growth Kinetics and Magnetic Property of Single-Crystal Fe Nanowires Grown via Vaporâ€“Solid Mechanism Using Chemically Synthesized FeO Nanoparticle Catalysts. Crystal Growth and Design, 2019, 19, 7257-7263.	3.0	1
29	Controlling Bi-Provoked Nanostructure Formation in GaAs/GaAsBi Coreâ€“Shell Nanowires. Nano Letters, 2019, 19, 8510-8518.	9.1	11
30	Waterâ€“Organic Cosolvent Effect on Nucleation of Solution-Synthesized ZnO Nanowires. ACS Omega, 2019, 4, 8299-8304.	3.5	10
31	Rational Method of Monitoring Molecular Transformations on Metal-Oxide Nanowire Surfaces. Nano Letters, 2019, 19, 2443-2449.	9.1	21
32	Unusual Oxygen Partial Pressure Dependence of Electrical Transport of Single-Crystalline Metal Oxide Nanowires Grown by the Vaporâ€“Liquidâ€“Solid Process. Nano Letters, 2019, 19, 1675-1681.	9.1	5
33	Paper-Based Disposable Molecular Sensor Constructed from Oxide Nanowires, Cellulose Nanofibers, and Pencil-Drawn Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 15044-15050.	8.0	54
34	Engineering Nanowire-Mediated Cell Lysis for Microbial Cell Identification. ACS Nano, 2019, 13, 2262-2273.	14.6	17
35	Unveiling massive numbers of cancer-related urinary-microRNA candidates via nanowires. Science Advances, 2017, 3, e1701133.	10.3	170
36	Nanoscale Thermal Management of Single SnO₂ Nanowire: pico-Joule Energy Consumed Molecule Sensor. ACS Sensors, 2016, 1, 997-1002.	7.8	56

#	Article	IF	Citations
37	Rational Concept for Reducing Growth Temperature in Vaporâ€“Liquidâ€“Solid Process of Metal Oxide Nanowires. Nano Letters, 2016, 16, 7495-7502.	9.1	33
38	All-nanocellulose nonvolatile resistive memory. NPG Asia Materials, 2016, 8, e310-e310.	7.9	64
39	Tailoring Nucleation at Two Interfaces Enables Single Crystalline NiO Nanowires via Vaporâ€“Liquidâ€“Solid Route. ACS Applied Materials & Interfaces, 2016, 8, 27892-27899.	8.0	6
40	Identifying DNA methylation in a nanochannel. Science and Technology of Advanced Materials, 2016, 17, 644-649.	6.1	11
41	Self-assembled Nanowire Arrays as Three-dimensional Nanopores for Filtration of DNA Molecules. Analytical Sciences, 2015, 31, 153-157.	1.6	13
42	Rational Concept for Designing Vaporâ€“Liquidâ€“Solid Growth of Single Crystalline Metal Oxide Nanowires. Nano Letters, 2015, 15, 6406-6412.	9.1	46
43	A flux induced crystal phase transition in the vaporâ€“liquidâ€“solid growth of indium-tin oxide nanowires. Nanoscale, 2014, 6, 7033.	5.6	20
44	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
45	Crystal-Plane Dependence of Critical Concentration for Nucleation on Hydrothermal ZnO Nanowires. Journal of Physical Chemistry C, 2013, 117, 1197-1203.	3.1	67
46	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
47	Advanced Photoassisted Atomic Switches Produced Using ITO Nanowire Electrodes and Molten Photoconductive Organic Semiconductors. Advanced Materials, 2013, 25, 5893-5897.	21.0	11
48	DNA Manipulation and Separation in Sublithographic-Scale Nanowire Array. ACS Nano, 2013, 7, 3029-3035.	14.6	61
49	Carrier type dependence on spatial asymmetry of unipolar resistive switching of metal oxides. Applied Physics Letters, 2013, 103, .	3.3	24
50	Dual Defects of Cation and Anion in Memristive Nonvolatile Memory of Metal Oxides. Journal of the American Chemical Society, 2012, 134, 2535-2538.	13.7	44
51	Facile and scalable patterning of sublithographic scale uniform nanowires by ultra-thin AAO free-standing membrane. RSC Advances, 2012, 2, 10618.	3.6	22
52	Fundamental Strategy for Creating VLS Grown TiO₂ Single Crystalline Nanowires. Journal of Physical Chemistry C, 2012, 116, 24367-24372.	3.1	28
53	Prominent Thermodynamical Interaction with Surroundings on Nanoscale Memristive Switching of Metal Oxides. Nano Letters, 2012, 12, 5684-5690.	9.1	40
54	Spatial Nonuniformity in Resistive-Switching Memory Effects of NiO. Journal of the American Chemical Society, 2011, 133, 12482-12485.	13.7	46

#	Article	IF	Citations
55	Intrinsic Mechanisms of Memristive Switching. Nano Letters, 2011, 11, 2114-2118.	9.1	110
56	Study on transport pathway in oxide nanowire growth by using spacing-controlled regular array. Applied Physics Letters, 2011, 99, 193105.	3.3	20
57	Impurity induced periodic mesostructures in Sb-doped SnO2 nanowires. Journal of Crystal Growth, 2010, 312, 3251-3256.	1.5	10
58	Resistive-Switching Memory Effects of NiO Nanowire/Metal Junctions. Journal of the American Chemical Society, 2010, 132, 6634-6635.	13.7	125
59	Resistive Switching Multistate Nonvolatile Memory Effects in a Single Cobalt Oxide Nanowire. Nano Letters, 2010, 10, 1359-1363.	9.1	239
60	Unipolar resistive switching characteristics of room temperature grown SnO2 thin films. Applied Physics Letters, 2009, 94, .	3.3	96
61	Specific surface effect on transport properties of NiO/MgO heterostructured nanowires. Applied Physics Letters, 2009, 95, 133110.	3.3	23
62	Nonvolatile Bipolar Resistive Memory Switching in Single Crystalline NiO Heterostructured Nanowires. Journal of the American Chemical Society, 2009, 131, 3434-3435.	13.7	147
63	Enhancement of Oxide VLS Growth by Carbon on Substrate Surface. Journal of Physical Chemistry C, 2008, 112, 18923-18926.	3.1	41
64	Effect of the Heterointerface on Transport Properties of in Situ Formed MgO/Titanate Heterostructured Nanowires. Journal of the American Chemical Society, 2008, 130, 5378-5382.	13.7	60
65	Mechanism and control of sidewall growth and catalyst diffusion on oxide nanowire vapor-liquid-solid growth. Applied Physics Letters, 2008, 93, .	3.3	56
66	Crucial role of interdiffusion on magnetic properties of in situ formed MgOâˆ•Fe3âˆ’Î´O4 heterostructured nanowires. Applied Physics Letters, 2008, 92, 173119.	3.3	47
67	Epitaxial growth of MgO nanowires by pulsed laser deposition. Journal of Applied Physics, 2007, 101, 124304.	2.5	69
68	Control of magnesium oxide nanowire morphologies by ambient temperature. Applied Physics Letters, 2007, 90, 233103.	3.3	51