Taekyung Lim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6854093/publications.pdf

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57	720	623574	552653
papers	citations	14 h-index	26 g-index

58	58	58	1307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metamaterial Absorber for Electromagnetic Waves in Periodic Water Droplets. Scientific Reports, 2015, 5, 14018.	1.6	167
2	Organic electrochemical transistor-based channel dimension-independent single-strand wearable sweat sensors. NPG Asia Materials, 2018, 10, 1086-1095.	3.8	79
3	Dynamic graphene filters for selective gas-water-oil separation. Scientific Reports, 2015, 5, 14321.	1.6	52
4	Photostable Zn₂SnO₄ Nanowire Transistors for Transparent Displays. ACS Nano, 2012, 6, 4912-4920.	7.3	41
5	Development of a wearable infrared shield based on a polyurethaneâ€“antimony tin oxide composite fiber. NPG Asia Materials, 2020, 12, .	3.8	39
6	Infrared Invisibility Cloak Based on Polyurethaneâ€“Tin Oxide Composite Microtubes. ACS Applied Materials & Interfaces, 2019, 11, 14296-14304.	4.0	31
7	Control of Semiconducting and Metallic Indium Oxide Nanowires. ACS Nano, 2011, 5, 3917-3922.	7.3	22
8	Direct deposition of aluminum oxide gate dielectric on graphene channel using nitrogen plasma treatment. Applied Physics Letters, 2013, 103, .	1.5	22
9	Highly Stable Operation of Metal Oxide Nanowire Transistors in Ambient Humidity, Water, Blood, and Oxygen. ACS Applied Materials & Interfaces, 2015, 7, 16296-16302.	4.0	21
10	Copper-embedded reduced graphene oxide fibers for multi-sensors. Journal of Materials Chemistry C, 2017, 5, 12825-12832.	2.7	17
11	Human sweat monitoring using polymer-based fiber. Scientific Reports, 2019, 9, 17294.	1.6	17
12	Elastic Halochromic Fiber as a Reversible pH Sensor. Advanced Materials Technologies, 2021, 6, 2001058.	3.0	17
13	Threshold voltage control of oxide nanowire transistors using nitrogen plasma treatment. Applied Physics Letters, 2010, 97, 203508.	1.5	16
14	Homogeneous and stable p-type doping of graphene by MeV electron beam-stimulated hybridization with ZnO thin films. Applied Physics Letters, 2013, 102, 053103.	1.5	15
15	Pen drawing display. Nature Communications, 2019, 10, 4334.	5.8	15
16	Hydrophobic Microfiber Strain Sensor Operating Stably in Sweat and Water Environment. Advanced Materials Interfaces, 2018, 5, 1801376.	1.9	11
17	Thermochemical hydrogen generation of indium oxide thin films. AIP Advances, 2017, 7, 035207.	0.6	10
18	Nanowire-based ternary transistor by threshold-voltage manipulation. Applied Physics Letters, 2014, 104, .	1.5	9

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19	Chemically Reactive Polyurethaneâ€“Carbon Nanotube Fiber with Aerogelâ€Microphereâ€Thinâ€Film Selective Filter. Advanced Materials Interfaces, 2018, 5, 1800935.	1.9	9
20	Fabrication of controllable and stable In₂O₃nanowire transistors using an octadecylphosphonic acid self-assembled monolayer. Nanotechnology, 2015, 26, 145203.	1.3	8
21	Controlled three-dimensional interconnected capillary structures for liquid repellency engineering. RSC Advances, 2016, 6, 61909-61914.	1.7	8
22	Hydrogen generation enhanced by nano-forest structures. RSC Advances, 2016, 6, 12953-12958.	1.7	8
23	Detection of chemicals in water using a three-dimensional graphene porous structure as liquid-vapor separation filter. Nano Research, 2017, 10, 971-979.	5.8	8
24	Superhydrophobic, Elastic, and Conducting Polyurethane-Carbon Nanotubeâ€“Silaneâ€“Aerogel Composite Microfiber. Polymers, 2020, 12, 1772.	2.0	8
25	Contact Angle Analysis for the Prediction of Defect States of Graphene Grafted with Functional Groups. Advanced Materials Interfaces, 2018, 5, 1800166.	1.9	6
26	Hydrogen production based on a photoactivated nanowire-forest. Journal of Materials Chemistry A, 2016, 4, 14988-14995.	5.2	5
27	Self-Emitting Artificial Cilia Produced by Field Effect Spinning. ACS Applied Materials & Interfaces, 2019, 11, 35286-35293.	4.0	5
28	Enhancing Functionality of Epoxyâ€“TiO2-Embedded High-Strength Lightweight Aggregates. Polymers, 2020, 12, 2384.	2.0	5
29	Rapid mold-free fabrication of long functional PDMS fibers. NPG Asia Materials, 2022, 14, .	3.8	5
30	Investigation of thermal resistance and power consumption in Ga-doped indium oxide (In₂O₃) nanowire phase change random access memory. Applied Physics Letters, 2014, 104, 103510.	1.5	4
31	Pore Structure Analysis to Adsorb NOx Gas based on Porous Materials. Journal of the Korean Physical Society, 2020, 77, 790-796.	0.3	4
32	A nanowire-based shift register for display scan drivers. Nanotechnology, 2011, 22, 405203.	1.3	3
33	Heat flux effect of thermal metamaterials. AIP Advances, 2018, 8, 105231.	0.6	3
34	Lightâ€Liquid Selective Filterâ€Mounted Nanowireâ€Networked Polyurethane Fiber for an Ultraviolet Sensor. Advanced Materials Interfaces, 2019, 6, 1901015.	1.9	3
35	Control of adiabatic properties using thermal meta-structures. AIP Advances, 2019, 9, 045111.	0.6	3
36	Real-Time Information-Variable Invisible Barcode Comprising Freely Deformable Infrared-Emitting Yarns. ACS Applied Materials & Interfaces, 2021, 13, 41046-41055.	4.0	3

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37	Dipping-Press Coating Method for Retaining Transparency and Imparting Hydrophobicity Regardless of Plastic Substrate Type. Polymers, 2021, 13, 403.	2.0	3
38	Controlled Growth of Related Defects on Oxide Nanowires. Journal of Nanoscience and Nanotechnology, 2011, 11, 7022-7026.	0.9	2
39	Development of a selectively liquid-blocking and vapor-passage microfilter based on polyurethane-aerogel microfibers. AIP Advances, 2019, 9, .	0.6	2
40	A-site Doping Effect of Multiferroic BiFeO3 Ceramics. Journal of the Korean Physical Society, 2020, 77, 1021-1025.	0.3	2
41	Hydrophobic halochromic aerogel capable of reversibly measuring acidic and basic vapors. AIP Advances, 2021, 11, 115115.	0.6	2
42	Direct growth of SnO₂nanowires on WO_xthin films. Nanotechnology, 2012, 23, 485702.	1.3	1
43	Seamless lamination of a concaveâ€“convex architecture with single-layer graphene. Nanoscale, 2015, 7, 18138-18146.	2.8	1
44	Detection of chemical substances in water using an oxide nanowire transistor covered with a hydrophobic nanoparticle thin film as a liquid-vapour separation filter. APL Materials, 2016, 4, 086110.	2.2	1
45	Detection of chemicals in water using an oxide nanowire transistor covered with an aerogel microsphere thin film as a liquid-vapor separation filter. Journal of the Korean Physical Society, 2018, 72, 144-150.	0.3	1
46	Contact Angle Analysis: Contact Angle Analysis for the Prediction of Defect States of Graphene Grafted with Functional Groups (Adv. Mater. Interfaces 19/2018). Advanced Materials Interfaces, 2018, 5, 1870093.	1.9	1
47	Mechanical and electrical response variation of the polyurethaneâ€“tin oxideâ€“carbon nanotube composite microfiber depending on the chemical solution. Journal of Polymer Science Part A, 2019, 57, 495-502.	2.5	1
48	Metastructure-inspired ultraviolet and blue light filter. AIP Advances, 2020, 10, 105015.	0.6	1
49	Tunable Metamaterial Absorber Using Ferromagnetic Resonance. Journal of the Korean Physical Society, 2020, 77, 1012-1015.	0.3	1
50	Metamaterialâ€™s Acceptable Level of Wrecked Meta-pattern. Journal of the Korean Physical Society, 2020, 77, 1016-1020.	0.3	1
51	Double-sided infrared display using an opaque substrate based on infrared image recognition mechanism. AIP Advances, 2021, 11, 025136.	0.6	1
52	Response to â€œComment on â€˜Threshold voltage control of oxide nanowire transistors using nitrogen plasma treatmentâ€™â€•[Appl. Phys. Lett. 98, 176101 (2011)]. Applied Physics Letters, 2011, 98, 176102.	1.5	0
53	Composite Fibers: Hydrophobic Microfiber Strain Sensor Operating Stably in Sweat and Water Environment (Adv. Mater. Interfaces 24/2018). Advanced Materials Interfaces, 2018, 5, 1870120.	1.9	0
54	Carbon Nanotube Fibers: Chemically Reactive Polyurethane-Carbon Nanotube Fiber with Aerogel-Microsphere-Thin-Film Selective Filter (Adv. Mater. Interfaces 20/2018). Advanced Materials Interfaces, 2018, 5, 1870099.	1.9	0

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55	Distance Effect of Heat Flux Based on Thermal Metamaterials. Journal of the Korean Physical Society, 2019, 75, 1028-1032.	0.3	0
56	Pulsedâ€Laserâ€Induced IR Stereoscopic Imaging. Advanced Optical Materials, 2020, 8, 1901706.	3.6	0
57	Regeneration of a metal oxide catalyst with polyvinylpyrrolidone under xenon flash irradiation for repetitive hydrogen generation. AIP Advances, 2020, 10, 085319.	0.6	0