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	Rapid mold-free fabrication of long functional PDMS fibers. NPG Asia Materials, 2022, 14, .	3.8	5
2	Elastic Halochromic Fiber as a Reversible pH Sensor. Advanced Materials Technologies, 2021, 6, 2001058.	3.0	17
3	Double-sided infrared display using an opaque substrate based on infrared image recognition mechanism. AIP Advances, 2021, 11, 025136.	0.6	1
4	Real-Time Information-Variable Invisible Barcode Comprising Freely Deformable Infrared-Emitting Yarns. ACS Applied Materials & Interfaces, 2021, 13, 41046-41055.	4.0	3
5	Dipping-Press Coating Method for Retaining Transparency and Imparting Hydrophobicity Regardless of Plastic Substrate Type. Polymers, 2021, 13, 403.	2.0	3
6	Hydrophobic halochromic aerogel capable of reversibly measuring acidic and basic vapors. AIP Advances, 2021, 11, 115115.	0.6	2
7	Pulsedâ€Laserâ€Induced IR Stereoscopic Imaging. Advanced Optical Materials, 2020, 8, 1901706.	3.6	0
8	Metastructure-inspired ultraviolet and blue light filter. AIP Advances, 2020, 10, 105015.	0.6	1
9	Tunable Metamaterial Absorber Using Ferromagnetic Resonance. Journal of the Korean Physical Society, 2020, 77, 1012-1015.	0.3	1
10	Metamaterialâ€™s Acceptable Level of Wrecked Meta-pattern. Journal of the Korean Physical Society, 2020, 77, 1016-1020.	0.3	1
11	Superhydrophobic, Elastic, and Conducting Polyurethane-Carbon Nanotubeâ€“Silaneâ€“Aerogel Composite Microfiber. Polymers, 2020, 12, 1772.	2.0	8
12	Regeneration of a metal oxide catalyst with polyvinylpyrrolidone under xenon flash irradiation for repetitive hydrogen generation. AIP Advances, 2020, 10, 085319.	0.6	0
13	A-site Doping Effect of Multiferroic BiFeO3 Ceramics. Journal of the Korean Physical Society, 2020, 77, 1021-1025.	0.3	2
14	Enhancing Functionality of Epoxyâ€“TiO2-Embedded High-Strength Lightweight Aggregates. Polymers, 2020, 12, 2384.	2.0	5
15	Development of a wearable infrared shield based on a polyurethaneâ€“antimony tin oxide composite fiber. NPG Asia Materials, 2020, 12, .	3.8	39
16	Pore Structure Analysis to Adsorb NOx Gas based on Porous Materials. Journal of the Korean Physical Society, 2020, 77, 790-796.	0.3	4
17	Self-Emitting Artificial Cilia Produced by Field Effect Spinning. ACS Applied Materials & Interfaces, 2019, 11, 35286-35293.	4.0	5
18	Lightâ€Liquid Selective Filterâ€Mounted Nanowireâ€Networked Polyurethane Fiber for an Ultraviolet Sensor. Advanced Materials Interfaces, 2019, 6, 1901015.	1.9	3

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19	Pen drawing display. Nature Communications, 2019, 10, 4334.	5.8	15
20	Control of adiabatic properties using thermal meta-structures. AIP Advances, 2019, 9, 045111.	0.6	3
21	Development of a selectively liquid-blocking and vapor-passage microfilter based on polyurethane-aerogel microfibers. AIP Advances, 2019, 9, .	0.6	2
22	Infrared Invisibility Cloak Based on Polyurethaneâ€“Tin Oxide Composite Microtubes. ACS Applied Materials & Interfaces, 2019, 11, 14296-14304.	4.0	31
23	Distance Effect of Heat Flux Based on Thermal Metamaterials. Journal of the Korean Physical Society, 2019, 75, 1028-1032.	0.3	0
24	Human sweat monitoring using polymer-based fiber. Scientific Reports, 2019, 9, 17294.	1.6	17
25	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
26	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
27	Heat flux effect of thermal metamaterials. AIP Advances, 2018, 8, 105231.	0.6	3
28	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
29	Organic electrochemical transistor-based channel dimension-independent single-strand wearable sweat sensors. NPG Asia Materials, 2018, 10, 1086-1095.	3.8	79
30	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
31	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
32	Hydrophobic Microfiber Strain Sensor Operating Stably in Sweat and Water Environment. Advanced Materials Interfaces, 2018, 5, 1801376.	1.9	11
33	Chemically Reactive Polyurethaneâ€“Carbon Nanotube Fiber with Aerogelâ€Microsphereâ€Thinâ€Film Selective Filter. Advanced Materials Interfaces, 2018, 5, 1800935.	1.9	9
34	Contact Angle Analysis for the Prediction of Defect States of Graphene Grafted with Functional Groups. Advanced Materials Interfaces, 2018, 5, 1800166.	1.9	6
35	Thermochemical hydrogen generation of indium oxide thin films. AIP Advances, 2017, 7, 035207.	0.6	10
36	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

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37	Copper-embedded reduced graphene oxide fibers for multi-sensors. Journal of Materials Chemistry C, 2017, 5, 12825-12832.	2.7	17
38	Controlled three-dimensional interconnected capillary structures for liquid repellency engineering. RSC Advances, 2016, 6, 61909-61914.	1.7	8
39	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
40	Hydrogen production based on a photoactivated nanowire-forest. Journal of Materials Chemistry A, 2016, 4, 14988-14995.	5.2	5
41	Hydrogen generation enhanced by nano-forest structures. RSC Advances, 2016, 6, 12953-12958.	1.7	8
42	Metamaterial Absorber for Electromagnetic Waves in Periodic Water Droplets. Scientific Reports, 2015, 5, 14018.	1.6	167
43	Dynamic graphene filters for selective gas-water-oil separation. Scientific Reports, 2015, 5, 14321.	1.6	52
44	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
45	Fabrication of controllable and stable In₂O₃nanowire transistors using an octadecylphosphonic acid self-assembled monolayer. Nanotechnology, 2015, 26, 145203.	1.3	8
46	Seamless lamination of a concaveâ€“convex architecture with single-layer graphene. Nanoscale, 2015, 7, 18138-18146.	2.8	1
47	Nanowire-based ternary transistor by threshold-voltage manipulation. Applied Physics Letters, 2014, 104, .	1.5	9
48	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
49	Direct deposition of aluminum oxide gate dielectric on graphene channel using nitrogen plasma treatment. Applied Physics Letters, 2013, 103, .	1.5	22
50	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
51	Photostable Zn₂SnO₄ Nanowire Transistors for Transparent Displays. ACS Nano, 2012, 6, 4912-4920.	7.3	41
52	Direct growth of SnO₂nanowires on WO_xthin films. Nanotechnology, 2012, 23, 485702.	1.3	1
53	Control of Semiconducting and Metallic Indium Oxide Nanowires. ACS Nano, 2011, 5, 3917-3922.	7.3	22
54	Controlled Growth of Related Defects on Oxide Nanowires. Journal of Nanoscience and Nanotechnology, 2011, 11, 7022-7026.	0.9	2

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55	A nanowire-based shift register for display scan drivers. Nanotechnology, 2011, 22, 405203.	1.3	3
56	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
57	Threshold voltage control of oxide nanowire transistors using nitrogen plasma treatment. Applied Physics Letters, 2010, 97, 203508.	1.5	16