

Wang Xi

List of Publications by Year in descending order

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papers

1,974
citations

361045

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433756

31
g-index

34
all docs

34
docs citations

34
times ranked

3222
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Propelled Nanotools. ACS Nano, 2012, 6, 1751-1756.	7.3	398
2	Rolled-up magnetic microdrillers: towards remotely controlled minimally invasive surgery. Nanoscale, 2013, 5, 1294-1297.	2.8	232
3	Flexible and Stretchable Strain Sensing Actuator for Wearable Soft Robotic Applications. Advanced Materials Technologies, 2016, 1, 1600018.	3.0	188
4	Highly Conductive and Strain-Released Hybrid Multilayer Ge/Ti Nanomembranes with Enhanced Lithium-Ion Storage Capability. Advanced Materials, 2013, 25, 539-544.	11.1	125
5	Material approaches to active tissue mechanics. Nature Reviews Materials, 2019, 4, 23-44.	23.3	103
6	Emergent patterns of collective cell migration under tubular confinement. Nature Communications, 2017, 8, 1517.	5.8	101
7	Lab-in-a-tube: ultracompact components for on-chip capture and detection of individual micro-/nanoorganisms. Lab on A Chip, 2012, 12, 1917.	3.1	88
8	Fabrication and applications of large arrays of multifunctional rolled-up SiO ₂ /SiO ₂ microtubes. Journal of Materials Chemistry, 2012, 22, 2878-2884.	6.7	69
9	Ultrathin and Wearable Microtubular Epidermal Sensor for Real-Time Physiological Pulse Monitoring. Advanced Materials Technologies, 2017, 2, 1700016.	3.0	68
10	Rolled-up Functionalized Nanomembranes as Three-Dimensional Cavities for Single Cell Studies. Nano Letters, 2014, 14, 4197-4204.	4.5	65
11	Soft tubular microfluidics for 2D and 3D applications. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10590-10595.	3.3	63
12	Biological Tissues as Active Nematic Liquid Crystals. Advanced Materials, 2018, 30, e1802579.	11.1	63
13	Edge Plane Sites on Highly Ordered Pyrolytic Graphite as Templates for Making Palladium Nanowires via Electrochemical Decoration. Journal of Physical Chemistry B, 2006, 110, 22306-22309.	1.2	56
14	Ultracompact Three-Dimensional Tubular Conductivity Microsensors for Ionic and Biosensing Applications. Nano Letters, 2014, 14, 2219-2224.	4.5	52
15	From polymer-metal complex framework to 3D architectures: growth, characterization and formation mechanism of micrometer-sized NiS. New Journal of Chemistry, 2003, 27, 1331-1335.	1.4	51
16	Dynamic Molecular Processes Detected by Microtubular Optochemical Sensors Self-Assembled from Prestrained Nanomembranes. Advanced Materials, 2013, 25, 2357-2361.	11.1	44
17	Molecular Insights into Division of Single Human Cancer Cells in On-Chip Transparent Microtubes. ACS Nano, 2016, 10, 5835-5846.	7.3	31
18	Single-Crystalline Gallium Nitride Microspindles: Synthesis, Characterization, and Thermal Stability. Advanced Functional Materials, 2004, 14, 464-470.	7.8	27

#	ARTICLE	IF	CITATIONS
19	Force modulation and electrochemical gating of conductance in a cytochrome. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 374123.	0.7	27
20	Molecular Scale Conductance Photoswitching in Engineered Bacteriorhodopsin. <i>Nano Letters</i> , 2012, 12, 899-903.	4.5	24
21	Growth of Pure $\hat{2}$ -Si ₃ N ₄ Nanorods from the Synergic Nitrogen Sources. <i>Chemistry Letters</i> , 2003, 32, 600-601.	0.7	18
22	Large Amplitude Conductance Gating in a Wired Redox Molecule. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1541-1546.	2.1	16
23	Modulation of designer biomimetic matrices for optimized differentiated intestinal epithelial cultures. <i>Biomaterials</i> , 2022, 282, 121380.	5.7	15
24	Tunnelling conductance of vectorial porphyrin monolayers. <i>Journal of Materials Chemistry</i> , 2008, 18, 3109.	6.7	12
25	Streaming Current Based Microtubular Enzymatic Sensor for Self-Powered Detection of Urea. <i>Advanced Materials Technologies</i> , 2019, 4, 1800430.	3.0	11
26	Bioengineering methods for organoid systems. <i>Biology of the Cell</i> , 2021, 113, 475-491.	0.7	8
27	Tubular Micro-nanorobots: Smart Design for Bio-related Applications. <i>Lecture Notes in Computer Science</i> , 2014, , 16-27.	1.0	6
28	Tubular microscaffolds for studying collective cell migration. <i>Methods in Cell Biology</i> , 2018, 146, 3-21.	0.5	5
29	$\hat{3}$ -Irradiation route to photoluminescent CdS–CdSe with core–shell nanostructures under ambient conditions. <i>Canadian Journal of Chemistry</i> , 2003, 81, 381-384.	0.6	3
30	Molecularly-Resolved Bioelectronics. <i>Current Nanoscience</i> , 2008, 4, 62-70.	0.7	3
31	Designer substrates and devices for mechanobiology study. <i>Journal of Semiconductors</i> , 2020, 41, 041607.	2.0	2
32	Growth of Pure $\hat{2}$ -Si ₃ N ₄ Nanorods from the Synergic Nitrogen Sources.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
33	EXPLORING TUNNEL TRANSPORT THROUGH PROTEIN AT THE MOLECULAR LEVEL. <i>Series on Iraq War and Its Consequences</i> , 2007, , 167-193.	0.1	0
34	Chapter 2. Scanning Probe Analyses at the Bioelectronic Interface. , 0, , 25-55.		0