

Xuan Cao

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,951
citations

279798

23
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

3500
citing authors

#	ARTICLE	IF	CITATIONS
1	Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. ACS Nano, 2017, 11, 5530-5537.	14.6	201
2	Highly Sensitive and Wearable In ₂ O ₃ Nanoribbon Transistor Biosensors with Integrated On-Chip Gate for Glucose Monitoring in Body Fluids. ACS Nano, 2018, 12, 1170-1178.	14.6	185
3	Fully Screen-Printed, Large-Area, and Flexible Active-Matrix Electrochromic Displays Using Carbon Nanotube Thin-Film Transistors. ACS Nano, 2016, 10, 9816-9822.	14.6	183
4	Matching material and cellular timescales maximizes cell spreading on viscoelastic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2686-E2695.	7.1	183
5	Screen Printing as a Scalable and Low-Cost Approach for Rigid and Flexible Thin-Film Transistors Using Separated Carbon Nanotubes. ACS Nano, 2014, 8, 12769-12776.	14.6	179
6	A Chemomechanical Model for Nuclear Morphology and Stresses during Cell Transendothelial Migration. Biophysical Journal, 2016, 111, 1541-1552.	0.5	112
7	Normal and Fibrotic Rat Livers Demonstrate Shear Strain Softening and Compression Stiffening: A Model for Soft Tissue Mechanics. PLoS ONE, 2016, 11, e0146588.	2.5	97
8	Multiscale model predicts increasing focal adhesion size with decreasing stiffness in fibrous matrices. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4549-E4555.	7.1	88
9	Room-Temperature Pressure Synthesis of Layered Black Phosphorus-Graphene Composite for Sodium-Ion Battery Anodes. ACS Nano, 2018, 12, 8323-8329.	14.6	83
10	Fully Printed All-Solid-State Organic Flexible Artificial Synapse for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2019, 11, 16749-16757.	8.0	70
11	Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using In ₂ O ₃ Nanoribbon Biosensors Fabricated Using Shadow Masks. ACS Nano, 2016, 10, 10117-10125.	14.6	69
12	Balance of mechanical forces drives endothelial gap formation and may facilitate cancer and immune-cell extravasation. PLoS Computational Biology, 2019, 15, e1006395.	3.2	53
13	A Chemomechanical Model of Matrix and Nuclear Rigidity Regulation of Focal Adhesion Size. Biophysical Journal, 2015, 109, 1807-1817.	0.5	49
14	Carbon Nanotube Macroelectronics for Active Matrix Polymer-Dispersed Liquid Crystal Displays. ACS Nano, 2016, 10, 10068-10074.	14.6	44
15	Imperceptible and Ultraflexible p-Type Transistors and Macroelectronics Based on Carbon Nanotubes. ACS Nano, 2016, 10, 199-206.	14.6	43
16	Review of Electronics Based on Single-Walled Carbon Nanotubes. Topics in Current Chemistry, 2017, 375, 75.	5.8	43
17	Top-Contact Self-Aligned Printing for High-Performance Carbon Nanotube Thin-Film Transistors with Sub-Micron Channel Length. ACS Nano, 2017, 11, 2008-2014.	14.6	38
18	Nuclear softening expedites interstitial cell migration in fibrous networks and dense connective tissues. Science Advances, 2020, 6, eaax5083.	10.3	36

#	ARTICLE	IF	CITATIONS
19	Harnessing cellular-derived forces in self-assembled microtissues to control the synthesis and alignment of ECM. <i>Biomaterials</i> , 2016, 77, 120-129.	11.4	34
20	Maturation State and Matrix Microstructure Regulate Interstitial Cell Migration in Dense Connective Tissues. <i>Scientific Reports</i> , 2018, 8, 3295.	3.3	31
21	Single-step flash-heat synthesis of red phosphorus/graphene flame-retardant composite as flexible anodes for sodium-ion batteries. <i>Nano Research</i> , 2018, 11, 3780-3790.	10.4	30
22	Radio frequency transistors based on ultra-high purity semiconducting carbon nanotubes with superior extrinsic maximum oscillation frequency. <i>Nano Research</i> , 2016, 9, 363-371.	10.4	26
23	Threshold voltage tuning and printed complementary transistors and inverters based on thin films of carbon nanotubes and indium zinc oxide. <i>Nano Research</i> , 2015, 8, 1159-1168.	10.4	22
24	High-Performance Sub-Micrometer Channel WSe_2 Field-Effect Transistors Prepared Using a Floodâ€Dike Printing Method. <i>ACS Nano</i> , 2017, 11, 12536-12546.	14.6	7