

Keren Jiang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/664968/publications.pdf>

Version: 2024-02-01

29
papers

1,398
citations

361413

20
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

2041
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct-current triboelectricity generation by a sliding Schottky nanocontact on MoS ₂ multilayers. <i>Nature Nanotechnology</i> , 2018, 13, 112-116.	31.5	230
2	Carbonized nanocellulose sustainably boosts the performance of activated carbon in ionic liquid supercapacitors. <i>Nano Energy</i> , 2016, 25, 161-169.	16.0	133
3	Sustained electron tunneling at unbiased metal-insulator-semiconductor triboelectric contacts. <i>Nano Energy</i> , 2018, 48, 320-326.	16.0	103
4	Impedimetric Detection of Pathogenic Gram-Positive Bacteria Using an Antimicrobial Peptide from Class IIa Bacteriocins. <i>Analytical Chemistry</i> , 2014, 86, 1693-1700.	6.5	90
5	Real-time Detection of Breast Cancer Cells Using Peptide-functionalized Microcantilever Arrays. <i>Scientific Reports</i> , 2015, 5, 13967.	3.3	72
6	Interfacial friction-induced electronic excitation mechanism for tribo-tunneling current generation. <i>Materials Horizons</i> , 2019, 6, 1020-1026.	12.2	70
7	Portable Nanofiber-Light Addressable Potentiometric Sensor for Rapid <i>Escherichia coli</i> Detection in Orange Juice. <i>ACS Sensors</i> , 2018, 3, 815-822.	7.8	69
8	The detection of <i>Escherichia coli</i> (E. coli) with the pH sensitive hydrogel nanofiber-light addressable potentiometric sensor (NF-LAPS). <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 176-183.	7.8	64
9	Anomalous interfacial stress generation during sodium intercalation/extraction in MoS ₂ thin-film anodes. <i>Science Advances</i> , 2019, 5, eaav2820.	10.3	60
10	Separation and Quantum Tunneling of Photo-generated Carriers Using a Tribo-Induced Field. <i>Matter</i> , 2019, 1, 650-660.	10.0	56
11	Freestanding hierarchical porous carbon film derived from hybrid nanocellulose for high-power supercapacitors. <i>Nano Research</i> , 2017, 10, 1847-1860.	10.4	55
12	Scaled-up Direct-Current Generation in MoS ₂ Multilayer-Based Moving Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35404-35409.	8.0	55
13	Tribo-tunneling DC Generator with Carbon Aerogel/Silicon Multi-Nanocontacts. <i>Advanced Electronic Materials</i> , 2019, 5, 1900464.	5.1	46
14	Rapid and Highly Sensitive Detection of Dopamine Using Conjugated Oxaborole-Based Polymer and Glycopolymer Systems. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15225-15231.	8.0	41
15	Tridentate citrate chelation towards stable fiber zinc-polypyrrole battery with hybrid mechanism. <i>Energy Storage Materials</i> , 2021, 43, 585-594.	18.0	39
16	Interface-Engineered Dendrite-Free Anode and Ultraconductive Cathode for Durable and High-Rate Fiber Zn Dual-Ion Microbattery. <i>Advanced Functional Materials</i> , 2021, 31, 2008894.	14.9	35
17	Detection of <i>Listeria monocytogenes</i> with Short Peptide Fragments from Class IIa Bacteriocins as Recognition Elements. <i>ACS Combinatorial Science</i> , 2015, 17, 156-163.	3.8	25
18	Carbon nanosheets derived from reconstructed lignin for potassium and sodium storage with low voltage hysteresis. <i>Nano Research</i> , 2021, 14, 4664-4673.	10.4	24

#	ARTICLE	IF	CITATIONS
19	Square-pyramidal Fe-N ₄ with defect-modulated O-coordination: Two-tier electronic structure fine-tuning for enhanced oxygen reduction. <i>Chem Catalysis</i> , 2022, 2, 816-835.	6.1	23
20	Rapid label-free detection of <i>E. coli</i> using antimicrobial peptide assisted impedance spectroscopy. <i>Analytical Methods</i> , 2015, 7, 9744-9748.	2.7	20
21	Formation of a porous cerium oxide membrane by anodization. <i>Chemical Communications</i> , 2011, 47, 2703.	4.1	19
22	Investigation of pH-Induced Protein Conformation Changes by Nanomechanical Deflection. <i>Langmuir</i> , 2014, 30, 2109-2116.	3.5	19
23	Flame normalizing-induced robust and oriented metallic layer for stable Zn anode. <i>Chemical Engineering Journal</i> , 2022, 437, 135246.	12.7	18
24	Thermomechanical responses of microfluidic cantilever capture DNA melting and properties of DNA premelting states using picoliters of DNA solution. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	12
25	Modified cantilever arrays improve sensitivity and reproducibility of nanomechanical sensing in living cells. <i>Communications Biology</i> , 2018, 1, 175.	4.4	11
26	X-ray Spectromicroscopy Investigation of Heterogeneous Sodiation in Hard Carbon Nanosheets with Vertically Oriented (002) Planes. <i>Small</i> , 2021, 17, e2102109.	10.0	8
27	Localized anisotropic stress in the sodiation of antimony anode. <i>Nano Energy</i> , 2022, 98, 107349.	16.0	1
28	Label-Free Rapid Detection of Pathogens with Antimicrobial Peptide Assisted Impedance Spectrometry. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1793, 13-18.	0.1	0
29	Self-Assembly of Human Serum Albumin: A Simplex Phenomenon. <i>Biomolecules</i> , 2017, 7, 69.	4.0	0