

Desheng Kong

List of Publications by Citations

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78
papers

14,721
citations

44
h-index

84
g-index

84
ext. papers

16,204
ext. citations

12.9
avg, IF

6.51
L-index

#	Paper	IF	Citations
78	Synthesis of MoS ₂ and MoSe ₂ films with vertically aligned layers. <i>Nano Letters</i> , 2013 , 13, 1341-7	11.5	1746
77	CoSe ₂ nanoparticles grown on carbon fiber paper: an efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4897-900	16.4	1147
76	First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2013 , 6, 3553	35.4	828
75	A transparent electrode based on a metal nanotrough network. <i>Nature Nanotechnology</i> , 2013 , 8, 421-5	28.7	749
74	Electrochemical tuning of vertically aligned MoS ₂ nanofilms and its application in improving hydrogen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19701-6	11.5	747
73	Aharonov-Bohm interference in topological insulator nanoribbons. <i>Nature Materials</i> , 2010 , 9, 225-9	27	660
72	Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , 2010 , 10, 4242-8	11.5	610
71	MoSe ₂ and WSe ₂ nanofilms with vertically aligned molecular layers on curved and rough surfaces. <i>Nano Letters</i> , 2013 , 13, 3426-33	11.5	579
70	Rapid water disinfection using vertically aligned MoS nanofilms and visible light. <i>Nature Nanotechnology</i> , 2016 , 11, 1098-1104	28.7	514
69	Electrochemical tuning of MoS ₂ nanoparticles on three-dimensional substrate for efficient hydrogen evolution. <i>ACS Nano</i> , 2014 , 8, 4940-7	16.7	487
68	Transition-metal doped edge sites in vertically aligned MoS ₂ catalysts for enhanced hydrogen evolution. <i>Nano Research</i> , 2015 , 8, 566-575	10	478
67	Improved lithium-sulfur batteries with a conductive coating on the separator to prevent the accumulation of inactive S-related species at the cathode-separator interface. <i>Energy and Environmental Science</i> , 2014 , 7, 3381-3390	35.4	425
66	Few-layer nanoplates of Bi ₂ Se ₃ and Bi ₂ Te ₃ with highly tunable chemical potential. <i>Nano Letters</i> , 2010 , 10, 2245-50	11.5	370
65	Electrochemical tuning of layered lithium transition metal oxides for improvement of oxygen evolution reaction. <i>Nature Communications</i> , 2014 , 5, 4345	17.4	350
64	Three-dimensional carbon nanotube-textile anode for high-performance microbial fuel cells. <i>Nano Letters</i> , 2011 , 11, 291-6	11.5	350
63	Improving lithium-sulphur batteries through spatial control of sulphur species deposition on a hybrid electrode surface. <i>Nature Communications</i> , 2014 , 5, 3943	17.4	341
62	Ambipolar field effect in the ternary topological insulator (Bi _x Sb _{1-x}) ₂ Te ₃ by composition tuning. <i>Nature Nanotechnology</i> , 2011 , 6, 705-9	28.7	311

61	Rapid surface oxidation as a source of surface degradation factor for Bi ₂ Se ₃ . <i>ACS Nano</i> , 2011 , 5, 4698-703	16.7	279
60	Sulfur cathodes with hydrogen reduced titanium dioxide inverse opal structure. <i>ACS Nano</i> , 2014 , 8, 5249-567	16.7	273
59	Topological insulator nanowires and nanoribbons. <i>Nano Letters</i> , 2010 , 10, 329-33	11.5	263
58	Performance enhancement of metal nanowire transparent conducting electrodes by mesoscale metal wires. <i>Nature Communications</i> , 2013 , 4, 2522	17.4	244
57	Improving battery safety by early detection of internal shorting with a bifunctional separator. <i>Nature Communications</i> , 2014 , 5, 5193	17.4	233
56	Opportunities in chemistry and materials science for topological insulators and their nanostructures. <i>Nature Chemistry</i> , 2011 , 3, 845-9	17.6	199
55	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. <i>Advanced Materials</i> , 2016 , 28, 4441-8	24	191
54	Ultra-low carrier concentration and surface-dominant transport in antimony-doped Bi ₂ Se ₃ topological insulator nanoribbons. <i>Nature Communications</i> , 2012 , 3, 757	17.4	175
53	Vertical heterostructure of two-dimensional MoS ₂ and WSe ₂ with vertically aligned layers. <i>Nano Letters</i> , 2015 , 15, 1031-5	11.5	168
52	Electrolessly deposited electrospun metal nanowire transparent electrodes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10593-6	16.4	158
51	Weak antilocalization in Bi ₂ (Se _x)Te _(1-x) ₃ nanoribbons and nanoplates. <i>Nano Letters</i> , 2012 , 12, 1107-11	11.5	154
50	Ultrathin topological insulator Bi ₂ Se ₃ nanoribbons exfoliated by atomic force microscopy. <i>Nano Letters</i> , 2010 , 10, 3118-22	11.5	148
49	High-density chemical intercalation of zero-valent copper into Bi ₂ Se ₃ nanoribbons. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7584-7	16.4	122
48	Chemical intercalation of zerovalent metals into 2D layered Bi ₂ Se ₃ nanoribbons. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13773-9	16.4	117
47	Magnetic doping and kondo effect in bi ₍₂₎ se ₍₃₎ nanoribbons. <i>Nano Letters</i> , 2010 , 10, 1076-81	11.5	109
46	Static electricity powered copper oxide nanowire microbicidal electroporation for water disinfection. <i>Nano Letters</i> , 2014 , 14, 5603-8	11.5	91
45	Low reflectivity and high flexibility of tin-doped indium oxide nanofiber transparent electrodes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 27-9	16.4	85
44	Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <i>Nature Communications</i> , 2014 , 5, 5670	17.4	79

43	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 4680-4686	15.6	68
42	Two-dimensional chalcogenide nanoplates as tunable metamaterials via chemical intercalation. <i>Nano Letters</i> , 2013 , 13, 5913-8	11.5	60
41	Effects of magnetic doping on weak antilocalization in narrow Bi ₂ Se ₃ nanoribbons. <i>Nano Letters</i> , 2012 , 12, 4355-9	11.5	59
40	Nickel Chains Assembled by Hollow Microspheres and Their Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6613-6619	3.8	57
39	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. <i>Scientific Reports</i> , 2015 , 5, 17849	4.9	53
38	Ambipolar field effect in Sb-doped Bi ₂ Se ₃ nanoplates by solvothermal synthesis. <i>Nano Letters</i> , 2013 , 13, 632-6	11.5	50
37	Partially-Screened Field Effect and Selective Carrier Injection at Organic Semiconductor/Graphene Heterointerface. <i>Nano Letters</i> , 2015 , 15, 7587-95	11.5	49
36	Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. <i>ACS Nano</i> , 2019 , 13, 11901-11911	16.7	45
35	Bright Stretchable Electroluminescent Devices based on Silver Nanowire Electrodes and High-k Thermoplastic Elastomers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44760-44767	9.5	44
34	Stretchable High-Permittivity Nanocomposites for Epidermal Alternating-Current Electroluminescent Displays 2019 , 1, 511-518		41
33	Skin-inspired electronics: emerging semiconductor devices and systems. <i>Journal of Semiconductors</i> , 2020 , 41, 041601	2.3	33
32	Preparation and Characterization of Ring-Shaped Co Nanomaterials. <i>Chemistry of Materials</i> , 2008 , 20, 5163-5168	9.6	31
31	Fast-Response and Low-Hysteresis Flexible Pressure Sensor Based on Silicon Nanowires. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1069-1072	4.4	26
30	Fully Screen-Printed, Multicolor, and Stretchable Electroluminescent Displays for Epidermal Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47902-47910	9.5	24
29	Printable Liquid Metal Microparticle Ink for Ultrastretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50852-50859	9.5	23
28	A stretchable and breathable form of epidermal device based on elastomeric nanofibre textiles and silver nanowires. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9748-9755	7.1	21
27	Omnidirectional Printing of Soft Elastomer for Liquid-State Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18590-18598	9.5	20
26	Ultrastretchable and Washable Conductive Microtextiles by Coassembly of Silver Nanowires and Elastomeric Microfibers for Epidermal Human-Machine Interfaces 2021 , 3, 912-920		20

25	Investigation of a Solution-Processable, Nonspecific Surface Modifier for Low Cost, High Work Function Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19658-64	9.5	19
24	Laser Sintering of Zn Microparticles and Its Application in Printable Biodegradable Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800693	6.4	18
23	Soft elastomeric composite materials with skin-inspired mechanical properties for stretchable electronic circuits. <i>Lab on A Chip</i> , 2019 , 19, 2709-2717	7.2	18
22	Maskless Patterning of Biodegradable Conductors by Selective Laser Sintering of Microparticle Inks and Its Application in Flexible Transient Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45844-45852	9.5	18
21	Stretchable and Superwetable Colorimetric Sensing Patch for Epidermal Collection and Analysis of Sweat. <i>ACS Sensors</i> , 2021 , 6, 2261-2269	9.2	17
20	Intrinsically stretchable electronics with ultrahigh deformability to monitor dynamically moving organs.. <i>Science Advances</i> , 2022 , 8, eabl5511	14.3	17
19	Magnetization ground states and phase diagrams for a nanosized Co hollow sphere: An onion-type magnetization state. <i>Journal of Applied Physics</i> , 2008 , 104, 013923	2.5	12
18	Phase Separation of Dirac Electrons in Topological Insulators at the Spatial Limit. <i>Nano Letters</i> , 2017 , 17, 97-103	11.5	9
17	Crumpled MXene Electrodes for Ultrastretchable and High-Area-Capacitance Supercapacitors. <i>Nano Letters</i> , 2021 , 21, 7561-7568	11.5	9
16	Fully solution processed liquid metal features as highly conductive and ultrastretchable conductors. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	9
15	Strain-invariant conductance in an elastomeric nanocomposite mesh conductor for stretchable electronics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9440-9448	7.1	8
14	Metal Nanoparticle Harvesting by Continuous Rotating Electrodeposition and Separation. <i>Matter</i> , 2020 , 3, 1294-1307	12.7	8
13	Collective magnetization flux closure state with circular array of single-domain nanomagnets: Magnetization reversal and chirality control. <i>Journal of Applied Physics</i> , 2008 , 103, 114312	2.5	7
12	Use of an intermediate solid-state electrode to enable efficient hydrogen production from dilute organic matter. <i>Nano Energy</i> , 2017 , 39, 499-505	17.1	6
11	On the Working Mechanisms of Solid-State Double-Layer-Dielectric-Based Organic Field-Effect Transistors and Their Implication for Sensors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700326	6.4	6
10	Topological insulator nanostructures. <i>MRS Bulletin</i> , 2014 , 39, 873-879	3.2	5
9	Magnetism and the effect of anisotropy with a one-dimensional monatomic chain of cobalt using a Monte Carlo simulation. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 446207	1.8	5
8	Highly Permeable and Ultrastretchable Liquid Metal Micromesh for Skin-Attachable Electronics 2022 , 4, 634-641		5

7	An Ultrastretchable Reflective Electrode Based on a Liquid Metal Film for Deformable Optoelectronics 2021 , 3, 1104-1111		4
6	Multistage targeted "Photoactive neutrophil" for enhancing synergistic photo-chemotherapy. <i>Biomaterials</i> , 2021 , 279, 121224	15.6	3
5	An intrinsically stretchable aqueous Zn-MnO ₂ battery based on microcracked electrodes for self-powering wearable electronics. <i>Energy Storage Materials</i> , 2022 , 47, 386-393	19.4	3
4	A Printable and Conductive Yield-Stress Fluid as an Ultrastretchable Transparent Conductor.. <i>Research</i> , 2021 , 2021, 9874939	7.8	3
3	Giant Thermal Transport Tuning at a Metal/Ferroelectric Interface. <i>Advanced Materials</i> , 2021 , e2105778	24	2
2	Solution-based fabrication of mechanically transformative materials for implantable applications. <i>Biomaterials Science</i> , 2021 , 9, 6950-6956	7.4	1
1	Artificial Reflex Arc: An Environment-Adaptive Neuromorphic Camouflage Device. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1224-1227	4.4	1