

# Desheng Kong

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Highly Permeable and Ultrastretchable Liquid Metal Micromesh for Skin-Attachable Electronics <b>2022</b> , 4, 634-641		5
77	Intrinsically stretchable electronics with ultrahigh deformability to monitor dynamically moving organs.. <i>Science Advances</i> , <b>2022</b> , 8, eabl5511	14.3	17
76	An intrinsically stretchable aqueous Zn-MnO <sub>2</sub> battery based on microcracked electrodes for self-powering wearable electronics. <i>Energy Storage Materials</i> , <b>2022</b> , 47, 386-393	19.4	3
75	Giant Thermal Transport Tuning at a Metal/Ferroelectric Interface. <i>Advanced Materials</i> , <b>2021</b> , e2105778	24	2
74	Multistage targeted "Photoactive neutrophil" for enhancing synergistic photo-chemotherapy. <i>Biomaterials</i> , <b>2021</b> , 279, 121224	15.6	3
73	Ultrastretchable and Washable Conductive Microtextiles by Coassembly of Silver Nanowires and Elastomeric Microfibers for Epidermal Human-Machine Interfaces <b>2021</b> , 3, 912-920		20
72	Stretchable and Superwetable Colorimetric Sensing Patch for Epidermal Collection and Analysis of Sweat. <i>ACS Sensors</i> , <b>2021</b> , 6, 2261-2269	9.2	17
71	An Ultrastretchable Reflective Electrode Based on a Liquid Metal Film for Deformable Optoelectronics <b>2021</b> , 3, 1104-1111		4
70	Solution-based fabrication of mechanically transformative materials for implantable applications. <i>Biomaterials Science</i> , <b>2021</b> , 9, 6950-6956	7.4	1
69	Artificial Reflex Arc: An Environment-Adaptive Neuromorphic Camouflage Device. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 1224-1227	4.4	1
68	Crumpled MXene Electrodes for Ultrastretchable and High-Area-Capacitance Supercapacitors. <i>Nano Letters</i> , <b>2021</b> , 21, 7561-7568	11.5	9
67	Fully solution processed liquid metal features as highly conductive and ultrastretchable conductors. <i>Npj Flexible Electronics</i> , <b>2021</b> , 5,	10.7	9
66	A Printable and Conductive Yield-Stress Fluid as an Ultrastretchable Transparent Conductor.. <i>Research</i> , <b>2021</b> , 2021, 9874939	7.8	3
65	Skin-inspired electronics: emerging semiconductor devices and systems. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 041601	2.3	33
64	Strain-invariant conductance in an elastomeric nanocomposite mesh conductor for stretchable electronics. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9440-9448	7.1	8
63	Metal Nanoparticle Harvesting by Continuous Rotating Electrodeposition and Separation. <i>Matter</i> , <b>2020</b> , 3, 1294-1307	12.7	8
62	Fully Screen-Printed, Multicolor, and Stretchable Electroluminescent Displays for Epidermal Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47902-47910	9.5	24

61	Printable Liquid Metal Microparticle Ink for Ultrastretchable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50852-50859	9.5	23
60	Laser Sintering of Zn Microparticles and Its Application in Printable Biodegradable Electronics. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800693	6.4	18
59	Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. <i>ACS Nano</i> , <b>2019</b> , 13, 11901-11911	16.7	45
58	Omnidirectional Printing of Soft Elastomer for Liquid-State Stretchable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18590-18598	9.5	20
57	Soft elastomeric composite materials with skin-inspired mechanical properties for stretchable electronic circuits. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2709-2717	7.2	18
56	A stretchable and breathable form of epidermal device based on elastomeric nanofibre textiles and silver nanowires. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9748-9755	7.1	21
55	Stretchable High-Permittivity Nanocomposites for Epidermal Alternating-Current Electroluminescent Displays <b>2019</b> , 1, 511-518		41
54	Maskless Patterning of Biodegradable Conductors by Selective Laser Sintering of Microparticle Inks and Its Application in Flexible Transient Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45844-45852	9.5	18
53	Fast-Response and Low-Hysteresis Flexible Pressure Sensor Based on Silicon Nanowires. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1069-1072	4.4	26
52	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> , <b>2018</b> , 4, 1700326	6.4	6
51	Bright Stretchable Electroluminescent Devices based on Silver Nanowire Electrodes and High-k Thermoplastic Elastomers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44760-44767	9.5	44
50	Phase Separation of Dirac Electrons in Topological Insulators at the Spatial Limit. <i>Nano Letters</i> , <b>2017</b> , 17, 97-103	11.5	9
49	Use of an intermediate solid-state electrode to enable efficient hydrogen production from dilute organic matter. <i>Nano Energy</i> , <b>2017</b> , 39, 499-505	17.1	6
48	Rapid water disinfection using vertically aligned MoS <sub>2</sub> nanofilms and visible light. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 1098-1104	28.7	514
47	Investigation of a Solution-Processable, Nonspecific Surface Modifier for Low Cost, High Work Function Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19658-64	9.5	19
46	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4680-4686	15.6	68
45	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 4441-8	24	191
44	Vertical heterostructure of two-dimensional MoS <sub>2</sub> and WSe <sub>2</sub> with vertically aligned layers. <i>Nano Letters</i> , <b>2015</b> , 15, 1031-5	11.5	168

43	Partially-Screened Field Effect and Selective Carrier Injection at Organic Semiconductor/Graphene Heterointerface. <i>Nano Letters</i> , <b>2015</b> , 15, 7587-95	11.5	49
42	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. <i>Scientific Reports</i> , <b>2015</b> , 5, 17849	4.9	53
41	Transition-metal doped edge sites in vertically aligned MoS <sub>2</sub> catalysts for enhanced hydrogen evolution. <i>Nano Research</i> , <b>2015</b> , 8, 566-575	10	478
40	Electrochemical tuning of MoS <sub>2</sub> nanoparticles on three-dimensional substrate for efficient hydrogen evolution. <i>ACS Nano</i> , <b>2014</b> , 8, 4940-7	16.7	487
39	Improving lithium-sulphur batteries through spatial control of sulphur species deposition on a hybrid electrode surface. <i>Nature Communications</i> , <b>2014</b> , 5, 3943	17.4	341
38	Electrolessly deposited electrospun metal nanowire transparent electrodes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10593-6	16.4	158
37	Topological insulator nanostructures. <i>MRS Bulletin</i> , <b>2014</b> , 39, 873-879	3.2	5
36	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> , <b>2014</b> , 7, 3381-3390	35.4	425
35	Sulfur cathodes with hydrogen reduced titanium dioxide inverse opal structure. <i>ACS Nano</i> , <b>2014</b> , 8, 5249-56	15.7	273
34	Electrochemical tuning of layered lithium transition metal oxides for improvement of oxygen evolution reaction. <i>Nature Communications</i> , <b>2014</b> , 5, 4345	17.4	350
33	Static electricity powered copper oxide nanowire microbicidal electroporation for water disinfection. <i>Nano Letters</i> , <b>2014</b> , 14, 5603-8	11.5	91
32	CoSe <sub>2</sub> nanoparticles grown on carbon fiber paper: an efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4897-900	16.4	1147
31	Improving battery safety by early detection of internal shorting with a bifunctional separator. <i>Nature Communications</i> , <b>2014</b> , 5, 5193	17.4	233
30	Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <i>Nature Communications</i> , <b>2014</b> , 5, 5670	17.4	79
29	First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3553	35.4	828
28	Electrochemical tuning of vertically aligned MoS <sub>2</sub> nanofilms and its application in improving hydrogen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 19701-6	11.5	747
27	Two-dimensional chalcogenide nanoplates as tunable metamaterials via chemical intercalation. <i>Nano Letters</i> , <b>2013</b> , 13, 5913-8	11.5	60
26	Performance enhancement of metal nanowire transparent conducting electrodes by mesoscale metal wires. <i>Nature Communications</i> , <b>2013</b> , 4, 2522	17.4	244

25	Synthesis of MoS <sub>2</sub> and MoSe <sub>2</sub> films with vertically aligned layers. <i>Nano Letters</i> , <b>2013</b> , 13, 1341-7	11.5	1746
24	Ambipolar field effect in Sb-doped Bi <sub>2</sub> Se <sub>3</sub> nanoplates by solvothermal synthesis. <i>Nano Letters</i> , <b>2013</b> , 13, 632-6	11.5	50
23	A transparent electrode based on a metal nanotrough network. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 421-5	28.7	749
22	MoSe <sub>2</sub> and WSe <sub>2</sub> nanofilms with vertically aligned molecular layers on curved and rough surfaces. <i>Nano Letters</i> , <b>2013</b> , 13, 3426-33	11.5	579
21	Weak antilocalization in Bi <sub>2</sub> (Se(x)Te(1-x)) <sub>3</sub> nanoribbons and nanoplates. <i>Nano Letters</i> , <b>2012</b> , 12, 1107-11	11.5	154
20	Chemical intercalation of zerovalent metals into 2D layered Bi <sub>2</sub> Se <sub>3</sub> nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13773-9	16.4	117
19	Effects of magnetic doping on weak antilocalization in narrow Bi <sub>2</sub> Se <sub>3</sub> nanoribbons. <i>Nano Letters</i> , <b>2012</b> , 12, 4355-9	11.5	59
18	Ultra-low carrier concentration and surface-dominant transport in antimony-doped Bi <sub>2</sub> Se <sub>3</sub> topological insulator nanoribbons. <i>Nature Communications</i> , <b>2012</b> , 3, 757	17.4	175
17	High-density chemical intercalation of zero-valent copper into Bi <sub>2</sub> Se <sub>3</sub> nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7584-7	16.4	122
16	Three-dimensional carbon nanotube-textile anode for high-performance microbial fuel cells. <i>Nano Letters</i> , <b>2011</b> , 11, 291-6	11.5	350
15	Ambipolar field effect in the ternary topological insulator (Bi(x)Sb(1-x)) <sub>2</sub> Te <sub>3</sub> by composition tuning. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 705-9	28.7	311
14	Opportunities in chemistry and materials science for topological insulators and their nanostructures. <i>Nature Chemistry</i> , <b>2011</b> , 3, 845-9	17.6	199
13	Low reflectivity and high flexibility of tin-doped indium oxide nanofiber transparent electrodes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 27-9	16.4	85
12	Rapid surface oxidation as a source of surface degradation factor for Bi <sub>2</sub> Se <sub>3</sub> . <i>ACS Nano</i> , <b>2011</b> , 5, 4698-703	16.7	279
11	Aharonov-Bohm interference in topological insulator nanoribbons. <i>Nature Materials</i> , <b>2010</b> , 9, 225-9	27	660
10	Magnetic doping and kondo effect in Bi <sub>2</sub> Se <sub>3</sub> nanoribbons. <i>Nano Letters</i> , <b>2010</b> , 10, 1076-81	11.5	109
9	Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , <b>2010</b> , 10, 4242-8	11.5	610
8	Ultrathin topological insulator Bi <sub>2</sub> Se <sub>3</sub> nanoribbons exfoliated by atomic force microscopy. <i>Nano Letters</i> , <b>2010</b> , 10, 3118-22	11.5	148

7	Few-layer nanoplates of Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> with highly tunable chemical potential. <i>Nano Letters</i> , <b>2010</b> , 10, 2245-50	11.5	370
6	Topological insulator nanowires and nanoribbons. <i>Nano Letters</i> , <b>2010</b> , 10, 329-33	11.5	263
5	Magnetization ground states and phase diagrams for a nanosized Co hollow sphere: An onion-type magnetization state. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 013923	2.5	12
4	Collective magnetization flux closure state with circular array of single-domain nanomagnets: Magnetization reversal and chirality control. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 114312	2.5	7
3	Preparation and Characterization of Ring-Shaped Co Nanomaterials. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5163-5168	9.6	31
2	Nickel Chains Assembled by Hollow Microspheres and Their Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 6613-6619	3.8	57
1	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> , <b>2007</b> , 19, 446207	1.8	5