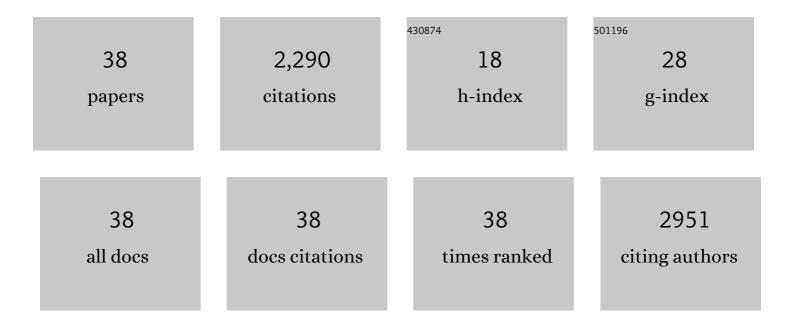
## Chuanhua Duan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Experimental Study on Capillary Imbibition of Shale Oil in Nanochannels. Energy & Fuels, 2022, 36, 5267-5275.	5.1	10
2	Edge-enhanced ultrafast water evaporation from graphene nanopores. Cell Reports Physical Science, 2022, 3, 100900.	5.6	3
3	Nanoparticle-blockage-enabled rapid and reversible nanopore gating with tunable memory. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	2
4	Anomalous mechanosensitive ion transport in nanoparticle-blocked nanopores. Journal of Chemical Physics, 2021, 154, 224702.	3.0	5
5	Exploring Anomalous Fluid Behavior at the Nanoscale: Direct Visualization and Quantification via Nanofluidic Devices. Accounts of Chemical Research, 2020, 53, 347-357.	15.6	43
6	Microstructural ordering of nanofibers in flow-directed assembly. Science China Technological Sciences, 2019, 62, 1545-1554.	4.0	4
7	Voltage-gated optics and plasmonics enabled by solid-state proton pumping. Nature Communications, 2019, 10, 5030.	12.8	51
8	Evaporation-assisted patterning beyond random assembly. National Science Review, 2019, 6, 1065-1066.	9.5	0
9	Ultrafast Diameter-Dependent Water Evaporation from Nanopores. ACS Nano, 2019, 13, 3363-3372.	14.6	70
10	Characterization and manipulation of single nanoparticles using a nanopore-based electrokinetic tweezer. Nanoscale, 2019, 11, 22924-22931.	5.6	11
11	Microfluidic detection of movements of <i>Escherichia coli</i> for rapid antibiotic susceptibility testing. Lab on A Chip, 2018, 18, 743-753.	6.0	32
12	Fast water transport in graphene nanofluidic channels. Nature Nanotechnology, 2018, 13, 238-245.	31.5	220
13	Theoretical investigation of enzymatic hydrolysis of polypeptides in nanofluidic channels. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	1
14	Exploring Ultimate Water Capillary Evaporation in Nanoscale Conduits. Nano Letters, 2017, 17, 4813-4819.	9.1	87
15	Geometry-Dependent Drying in Dead-End Nanochannels. Langmuir, 2017, 33, 8395-8403.	3.5	17
16	Structures and thermodynamics of water encapsulated by graphene. Scientific Reports, 2017, 7, 2646.	3.3	26
17	Accurate measurement of liquid transport through nanoscale conduits. Scientific Reports, 2016, 6, 24936.	3.3	31
18	Geometrical control of ionic current rectification in a configurable nanofluidic diode. Biomicrofluidics, 2016, 10, 054102.	2.4	9

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#	Article	IF	CITATIONS
19	Single bubble dynamics on superheated superhydrophobic surfaces. International Journal of Heat and Mass Transfer, 2016, 99, 521-531.	4.8	25
20	Label-Free Electrical Detection of Enzymatic Reactions in Nanochannels. ACS Nano, 2016, 10, 7476-7484.	14.6	42
21	lon transport in graphene nanofluidic channels. Nanoscale, 2016, 8, 19527-19535.	5.6	30
22	Bubble-Regulated Silicon Nanowire Synthesis on Micro-Structured Surfaces by Metal-Assisted Chemical Etching. Langmuir, 2015, 31, 12291-12299.	3.5	21
23	Evaporation-Induced Cavitation in Nanofluidic Channels: Dynamics and Origin. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 131-139.	0.2	Ο
24	Enhanced Ion Transport in 2-nm Silica Nanochannels. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 83-93.	0.2	0
25	Review article: Fabrication of nanofluidic devices. Biomicrofluidics, 2013, 7, 26501.	2.4	218
26	Evaporation-induced cavitation in nanofluidic channels. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3688-3693.	7.1	116
27	Mechanics of liquid–liquid interfaces and mixing enhancement in microscale flows. Journal of Fluid Mechanics, 2010, 652, 207-240.	3.4	8
28	Evaporation Induced Cavitation in Nanochannels. , 2010, , .		0
29	Power generation from concentration gradient by reverse electrodialysis in ion-selective nanochannels. Microfluidics and Nanofluidics, 2010, 9, 1215-1224.	2.2	317
30	Anomalous ion transport in 2-nm hydrophilic nanochannels. Nature Nanotechnology, 2010, 5, 848-852.	31.5	328
31	Power Generation From Concentration Gradient by Reverse Electrodialysis in Ion Selective Nanochannel. , 2009, , .		1
32	Detection of Non-Diffusion-Limited Enzymatic Surface Reaction in Nanofluidic Channels. , 2009, , .		0
33	Ion Transport in 2-NM Nanochannels. , 2009, , .		Ο
34	Transport of lons and Molecules in Nanofluidic Devices. , 2008, , .		0
35	Rectification of Ionic Current in a Nanofluidic Diode. Nano Letters, 2007, 7, 547-551.	9.1	484
36	Diffusion-Limited Patterning of Molecules in Nanofluidic Channels. Nano Letters, 2006, 6, 1735-1740.	9.1	78

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#	Article	IF	CITATIONS
37	Temperature Evaluation of Conventional, SOI, and DSOI Mosfets Using Non-Equilibrium Energy Model. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 249-261.	2.6	0

Nanofluidic Devices for Sensing and Flow Control. , 2006, , .