

# Chii-Dong Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,738  
citations

279487

23  
h-index

276539

41  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric effect in chemical vapour deposition-grown atomic-monolayer triangular molybdenum disulfide piezotronics. <i>Nature Communications</i> , 2015, 6, 7430.	5.8	233
2	Tunable photonic heat transport in a quantum heat valve. <i>Nature Physics</i> , 2018, 14, 991-995.	6.5	158
3	$\text{Fe}_2\text{O}_3$ Nanowires and their Type Transition in a Reductive Ambient. <i>Small</i> , 2007, 3, 1356-1361.	5.2	110
4	Nitrogen-Doped Tungsten Oxide Nanowires: Low-Temperature Synthesis on Si, and Electrical, Optical, and Field-Emission Properties. <i>Small</i> , 2007, 3, 658-664.	5.2	109
5	TaSi <sub>2</sub> Nanowires: A Potential Field Emitter and Interconnect. <i>Nano Letters</i> , 2006, 6, 1637-1644.	4.5	102
6	Strain relaxation and quantum confinement in InGaN/GaN nanoposts. <i>Nanotechnology</i> , 2006, 17, 1454-1458.	1.3	102
7	Fabrication and Characterization of Electrodeposited Bismuth Telluride Films and Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3385-3389.	1.5	98
8	A reversible surface functionalized nanowire transistor to study protein-protein interactions. <i>Nano Today</i> , 2009, 4, 235-243.	6.2	82
9	In-Situ Detection of Chromogranin A Released from Living Neurons with a Single-Walled Carbon-Nanotube Field-Effect Transistor. <i>Small</i> , 2007, 3, 1350-1355.	5.2	76
10	High-Current Gain Two-Dimensional MoS <sub>2</sub> -Base Hot-Electron Transistors. <i>Nano Letters</i> , 2015, 15, 7905-7912.	4.5	52
11	Improving Nanowire Sensing Capability by Electrical Field Alignment of Surface Probing Molecules. <i>Nano Letters</i> , 2013, 13, 2564-2569.	4.5	49
12	Electron hopping conduction in highly disordered carbon coils. <i>Carbon</i> , 2009, 47, 1761-1769.	5.4	40
13	Resonant Tunneling through Discrete Quantum States in Stacked Atomic-Layered MoS <sub>2</sub> . <i>Nano Letters</i> , 2014, 14, 2381-2386.	4.5	40
14	Monitoring extracellular K <sup>+</sup> flux with a valinomycin-coated silicon nanowire field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2012, 31, 137-143.	5.3	35
15	Using binary resistors to achieve multilevel resistive switching in multilayer NiO/Pt nanowire arrays. <i>NPG Asia Materials</i> , 2014, 6, e85-e85.	3.8	35
16	Exocytosis of a Single Bovine Adrenal Chromaffin Cell: The Electrical and Morphological Studies. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9165-9173.	1.2	34
17	Direct growth of mm-size twisted bilayer graphene by plasma-enhanced chemical vapor deposition. <i>Carbon</i> , 2020, 156, 212-224.	5.4	34
18	Two-Dimensional Arrays of Self-Assembled Gold and Sulfur-Containing Fullerene Nanoparticles. <i>Langmuir</i> , 2002, 18, 3332-3335.	1.6	33

#	ARTICLE	IF	CITATIONS
19	Coaxial Metal-Oxide-Semiconductor (MOS) Au/Ga <sub>2</sub> O <sub>3</sub> /GaN Nanowires. Nano Letters, 2008, 8, 3288-3292.	4.5	26
20	Direct Observation of Electron Dephasing due to Inelastic Scattering from Defects in Weakly Disordered AuPd Wires. Physical Review Letters, 2010, 104, 206803.	2.9	26
21	Direct growth of $\hat{\Gamma}^2$ -FeSi <sub>2</sub> nanowires with infrared emission, ferromagnetism at room temperature and high magnetoresistance via a spontaneous chemical reaction method. Journal of Materials Chemistry, 2011, 21, 5704.	6.7	24
22	Positioning of extended individual DNA molecules on electrodes by non-uniform AC electric fields. Nanotechnology, 2005, 16, 2738-2742.	1.3	23
23	Photoinduced Electron Transfer in Dye-Sensitized SnO <sub>2</sub> Nanowire Field-Effect Transistors. Advanced Functional Materials, 2011, 21, 474-479.	7.8	23
24	Ultralow Schottky Barriers in Hexagonal Boron Nitride-Encapsulated Monolayer WSe <sub>2</sub> Tunnel Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 18667-18673.	4.0	22
25	High performance phototransistors based on single crystalline perylene-tetracarboxylic-dianhydride nanoparticle. Applied Physics Letters, 2013, 103, .	1.5	17
26	Polymer-Free Patterning of Graphene at Sub-10-nm Scale by Low-Energy Repetitive Electron Beam. Small, 2014, 10, 4778-4784.	5.2	14
27	Self-aligned graphene oxide nanoribbon stack with gradient bandgap for visible-light photodetection. Nano Energy, 2016, 27, 114-120.	8.2	14
28	Effect of focused ion beam deposition induced contamination on the transport properties of nano devices. Nanotechnology, 2015, 26, 055705.	1.3	13
29	Probing Spin Accumulation induced Magnetocapacitance in a Single Electron Transistor. Scientific Reports, 2015, 5, 13704.	1.6	11
30	Generation of nano-scaled DNA patterns through electro-beam induced charge trapping. Nanotechnology, 2006, 17, 4854-4858.	1.3	9
31	Formation of single-electron-transistors using self-assembly of nanoparticle chains. Journal of Nanoparticle Research, 2010, 12, 2859-2864.	0.8	8
32	Photo-response of a nanopore device with a single embedded ZnO nanoparticle. Nanotechnology, 2012, 23, 165201.	1.3	8
33	Interplay of spin-orbit coupling and Zeeman effect probed by Kondo resonance in a carbon nanotube quantum dot. Carbon, 2012, 50, 3748-3752.	5.4	8
34	Effects of oxygen bonding on defective semiconducting and metallic single-walled carbon nanotube bundles. Carbon, 2012, 50, 4619-4627.	5.4	7
35	Isolation and Identification of Post-Transcriptional Gene Silencing-Related Micro-RNAs by Functionalized Silicon Nanowire Field-effect Transistor. Scientific Reports, 2015, 5, 17375.	1.6	7
36	Superior phototransistors based on a single ZnO nanoparticle with high mobility and ultrafast response time. Nanoscale Horizons, 2020, 5, 82-88.	4.1	7

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37	Identification of embedded charge defects in suspended silicon nanowires using a carbon-nanotube cantilever gate. Applied Physics Letters, 2011, 99, 053104.	1.5	6
38	Recovery Based Nanowire Field-Effect Transistor Detection of Pathogenic Avian Influenza DNA. Japanese Journal of Applied Physics, 2012, 51, 02BL02.	0.8	6
39	Recovery Based Nanowire Field-Effect Transistor Detection of Pathogenic Avian Influenza DNA. Japanese Journal of Applied Physics, 2012, 51, 02BL02.	0.8	5
40	Stacking fault induced tunnel barrier in platelet graphite nanofiber. Applied Physics Letters, 2014, 105, 103505.	1.5	5
41	Utilization of the superconducting transition for characterizing low-quality-factor superconducting resonators. Applied Physics Letters, 2019, 115, 022601.	1.5	5
42	A method for determining the specific capacitance value of mesoscopic Josephson junctions. Applied Physics Letters, 2012, 101, 232602.	1.5	3
43	Modulation of surface plasmon wave by photo-induced refractive index changes of CdSe quantum dots. Applied Physics Letters, 2012, 100, 011102.	1.5	3
44	Hybrid stacking structure of electroplated copper onto graphene for future interconnect applications. Applied Physics Letters, 2015, 107, .	1.5	3
45	Fabry-Perot interferometric calibration of van der Waals material-based nanomechanical resonators. Nanoscale Advances, 2022, 4, 502-509.	2.2	3
46	Detection of electrically neutral and nonpolar molecules in ionic solutions using silicon nanowires. Nanotechnology, 2017, 28, 165501.	1.3	2
47	Imaging Off-Resonance Nanomechanical Motion as Modal Superposition. Advanced Science, 2021, 8, 2005041.	5.6	2
48	A dual function electro-optical silicon field-effect transistor molecular sensor. Journal of Materials Chemistry C, 0, , .	2.7	2
49	Roller imprinting based on focus infrared heating. , 2008, , .		1
50	Voltage controlled photoluminescence blinking in CdSe nano-particles. Optics Express, 2010, 18, 26872.	1.7	1
51	Reduction of modal length using Josephson junction array confined cavity. Applied Physics Letters, 2013, 102, 142603.	1.5	1
52	Optoelectrical Nanomechanical Resonators Made from Multilayered Two-Dimensional Materials. ACS Applied Nano Materials, 2022, 5, 8875-8882.	2.4	1
53	Fabrications and Electron Transport Properties of One Dimensional Arrays of Gold and Sulfur Containing Fullerene Nanoparticles. Materials Research Society Symposia Proceedings, 2001, 704, 6301.	0.1	0
54	Fabrications and Electron Transport Properties of One Dimensional Arrays of Gold and Sulfur Containing Fullerene Nanoparticles. Materials Research Society Symposia Proceedings, 2001, 704, 671.	0.1	0

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55	Fabrications and Electron Transport Properties of One Dimensional Arrays of Gold and Sulfur Containing Fullerene Nanoparticles. Materials Research Society Symposia Proceedings, 2001, 707, 6301.	0.1	0
56	DNA nano-patterning by e-beam induced charge accumulation. , 0, , .		0
57	Quadratic Characteristics of Environment Induced Voltage Shot Noise in Josephson Junctions. Scientific Reports, 2017, 7, 3567.	1.6	0
58	Observation of Wigner crystal phase and ripplon-limited mobility behavior in monolayer CVD MoS <sub>2</sub> with grain boundary. Nanotechnology, 2018, 29, 225707.	1.3	0