

Chii-Dong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,738
citations

279798
23
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276875
41
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58
all docs

58
docs citations

58
times ranked

3159
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabryâ€™Perot interferometric calibration of van der Waals material-based nanomechanical resonators. Nanoscale Advances, 2022, 4, 502-509.	4.6	3
2	Optoelectrical Nanomechanical Resonators Made from Multilayered Two-Dimensional Materials. ACS Applied Nano Materials, 2022, 5, 8875-8882.	5.0	1
3	Imaging Offâ€™Resonance Nanomechanical Motion as Modal Superposition. Advanced Science, 2021, 8, 2005041.	11.2	2
4	Direct growth of mm-size twisted bilayer graphene by plasma-enhanced chemical vapor deposition. Carbon, 2020, 156, 212-224.	10.3	34
5	Superior phototransistors based on a single ZnO nanoparticle with high mobility and ultrafast response time. Nanoscale Horizons, 2020, 5, 82-88.	8.0	7
6	Ultralow Schottky Barriers in Hexagonal Boron Nitride-Encapsulated Monolayer WSe ₂ Tunnel Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 18667-18673.	8.0	22
7	Utilization of the superconducting transition for characterizing low-quality-factor superconducting resonators. Applied Physics Letters, 2019, 115, 022601.	3.3	5
8	Observation of Wigner crystal phase and ripplon-limited mobility behavior in monolayer CVD MoS ₂ with grain boundary. Nanotechnology, 2018, 29, 225707.	2.6	0
9	Tunable photonic heat transport in a quantum heat valve. Nature Physics, 2018, 14, 991-995.	16.7	158
10	Detection of electrically neutral and nonpolar molecules in ionic solutions using silicon nanowires. Nanotechnology, 2017, 28, 165501.	2.6	2
11	Quadratic Characteristics of Environment Induced Voltage Shot Noise in Josephson Junctions. Scientific Reports, 2017, 7, 3567.	3.3	0
12	Self-aligned graphene oxide nanoribbon stack with gradient bandgap for visible-light photodetection. Nano Energy, 2016, 27, 114-120.	16.0	14
13	Hybrid stacking structure of electroplated copper onto graphene for future interconnect applications. Applied Physics Letters, 2015, 107, .	3.3	3
14	Isolation and Identification of Post-Transcriptional Gene Silencing-Related Micro-RNAs by Functionalized Silicon Nanowire Field-effect Transistor. Scientific Reports, 2015, 5, 17375.	3.3	7
15	Probing Spin Accumulation induced Magnetocapacitance in a Single Electron Transistor. Scientific Reports, 2015, 5, 13704.	3.3	11
16	Effect of focused ion beam deposition induced contamination on the transport properties of nano devices. Nanotechnology, 2015, 26, 055705.	2.6	13
17	Piezoelectric effect in chemical vapour deposition-grown atomic-monolayer triangular molybdenum disulfide piezotronics. Nature Communications, 2015, 6, 7430.	12.8	233
18	High-Current Gain Two-Dimensional MoS ₂ -Base Hot-Electron Transistors. Nano Letters, 2015, 15, 7905-7912.	9.1	52

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19	Stacking fault induced tunnel barrier in platelet graphite nanofiber. Applied Physics Letters, 2014, 105, 103505.	3.3	5
20	Using binary resistors to achieve multilevel resistive switching in multilayer NiO/Pt nanowire arrays. NPG Asia Materials, 2014, 6, e85-e85.	7.9	35
21	Polymer-Free Patterning of Graphene at Sub-10-nm Scale by Low-Energy Repetitive Electron Beam. Small, 2014, 10, 4778-4784.	10.0	14
22	Resonant Tunneling through Discrete Quantum States in Stacked Atomic-Layered MoS ₂ . Nano Letters, 2014, 14, 2381-2386.	9.1	40
23	High performance phototransistors based on single crystalline perylene-tetracarboxylic-dianhydride nanoparticle. Applied Physics Letters, 2013, 103, .	3.3	17
24	Improving Nanowire Sensing Capability by Electrical Field Alignment of Surface Probing Molecules. Nano Letters, 2013, 13, 2564-2569.	9.1	49
25	Reduction of modal length using Josephson junction array confined cavity. Applied Physics Letters, 2013, 102, 142603.	3.3	1
26	Recovery Based Nanowire Field-Effect Transistor Detection of Pathogenic Avian Influenza DNA. Japanese Journal of Applied Physics, 2012, 51, 02BL02.	1.5	5
27	A method for determining the specific capacitance value of mesoscopic Josephson junctions. Applied Physics Letters, 2012, 101, 232602.	3.3	3
28	Photo-response of a nanopore device with a single embedded ZnO nanoparticle. Nanotechnology, 2012, 23, 165201.	2.6	8
29	Modulation of surface plasmon wave by photo-induced refractive index changes of CdSe quantum dots. Applied Physics Letters, 2012, 100, 011102.	3.3	3
30	Interplay of spin-orbit coupling and Zeeman effect probed by Kondo resonance in a carbon nanotube quantum dot. Carbon, 2012, 50, 3748-3752.	10.3	8
31	Effects of oxygen bonding on defective semiconducting and metallic single-walled carbon nanotube bundles. Carbon, 2012, 50, 4619-4627.	10.3	7
32	Monitoring extracellular K ⁺ flux with a valinomycin-coated silicon nanowire field-effect transistor. Biosensors and Bioelectronics, 2012, 31, 137-143.	10.1	35
33	Recovery Based Nanowire Field-Effect Transistor Detection of Pathogenic Avian Influenza DNA. Japanese Journal of Applied Physics, 2012, 51, 02BL02.	1.5	6
34	Identification of embedded charge defects in suspended silicon nanowires using a carbon-nanotube cantilever gate. Applied Physics Letters, 2011, 99, 053104.	3.3	6
35	Direct growth of β -FeSi ₂ 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
36	Photoinduced Electron Transfer in Dye-Sensitized SnO ₂ Nanowire Field-Effect Transistors. Advanced Functional Materials, 2011, 21, 474-479.	14.9	23

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37	Formation of single-electron-transistors using self-assembly of nanoparticle chains. Journal of Nanoparticle Research, 2010, 12, 2859-2864.	1.9	8
38	Direct Observation of Electron Dephasing due to Inelastic Scattering from Defects in Weakly Disordered AuPd Wires. Physical Review Letters, 2010, 104, 206803.	7.8	26
39	Fabrication and Characterization of Electrodeposited Bismuth Telluride Films and Nanowires. Journal of Physical Chemistry C, 2010, 114, 3385-3389.	3.1	98
40	Voltage controlled photoluminescence blinking in CdSe nano-particles. Optics Express, 2010, 18, 26872.	3.4	1
41	A reversible surface functionalized nanowire transistor to study protein-protein interactions. Nano Today, 2009, 4, 235-243.	11.9	82
42	Electron hopping conduction in highly disordered carbon coils. Carbon, 2009, 47, 1761-1769.	10.3	40
43	Coaxial Metal-Oxide-Semiconductor (MOS) Au/Ga ₂ O ₃ /GaN Nanowires. Nano Letters, 2008, 8, 3288-3292.	9.1	26
44	Roller imprinting based on focus infrared heating. , 2008, , .		1
45	Exocytosis of a Single Bovine Adrenal Chromaffin Cell: The Electrical and Morphological Studies. Journal of Physical Chemistry B, 2008, 112, 9165-9173.	2.6	34
46	Nitrogen-Doped Tungsten Oxide Nanowires: Low-Temperature Synthesis on Si, and Electrical, Optical, and Field-Emission Properties. Small, 2007, 3, 658-664.	10.0	109
47	In-Situ Detection of Chromogranin-A Released from Living Neurons with a Single-Walled Carbon-Nanotube Field-Effect Transistor. Small, 2007, 3, 1350-1355.	10.0	76
48	p-type Fe ₂ O ₃ Nanowires and their n-type Transition in a Reductive Ambient. Small, 2007, 3, 1356-1361.	10.0	110
49	TaSi ₂ Nanowires: A Potential Field Emitter and Interconnect. Nano Letters, 2006, 6, 1637-1644.	9.1	102
50	Strain relaxation and quantum confinement in InGaN/GaN nanoposts. Nanotechnology, 2006, 17, 1454-1458.	2.6	102
51	Generation of nano-scaled DNA patterns through electro-beam induced charge trapping. Nanotechnology, 2006, 17, 4854-4858.	2.6	9
52	Positioning of extended individual DNA molecules on electrodes by non-uniform AC electric fields. Nanotechnology, 2005, 16, 2738-2742.	2.6	23
53	Two-Dimensional Arrays of Self-Assembled Gold and Sulfur-Containing Fullerene Nanoparticles. Langmuir, 2002, 18, 3332-3335.	3.5	33
54	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

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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, 704, 671.	0.1	0
56	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
57	DNA nano-patterning by e-beam induced charge accumulation. , 0, , .		0
58	A dual function electro-optical silicon field-effect transistor molecular sensor. Journal of Materials Chemistry C, 0, , .	5.5	2