

# Tao Han

## List of Publications by Year in descending order

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papers

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1051969

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citing authors

#	ARTICLE	IF	CITATIONS
1	A high performance trench gate tunneling field effect transistor based on quasi-broken gap energy band alignment heterojunction. <i>Nanotechnology</i> , 2022, 33, 225205.	1.3	6
2	Investigation of Negative Bias Temperature Instability Effect in Nano PDSOI PMOSFET. <i>Micromachines</i> , 2022, 13, 808.	1.4	0
3	MANet: Multi-Scale Aware-Relation Network for Semantic Segmentation in Aerial Scenes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	2.7	14
4	Adjusting transmissivity based on graphene-h-BN-graphene heterostructure as a tunable phonon-plasmon coupling system in mid-infrared band. <i>Journal of Materials Science</i> , 2021, 56, 3210-3219.	1.7	3
5	Synthesis and Spectral Characteristics Investigation of the 2D-2D vdWs Heterostructure Materials. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1246.	1.8	2
6	Investigation of charge trapping mechanism in MoS <sub>2</sub> field effect transistor by incorporating Al into host La <sub>2</sub> O <sub>3</sub> as gate dielectric. <i>Nanotechnology</i> , 2021, 32, 305201.	1.3	5
7	Low-Power OR Logic Ferroelectric In-Situ Transistor Based on a CuInP <sub>2</sub> S <sub>6</sub> /MoS <sub>2</sub> Van Der Waals Heterojunction. <i>Nanomaterials</i> , 2021, 11, 1971.	1.9	5
8	Construction and electrical performance improvement of MoS <sub>2</sub> FET with graphene/metal contact. <i>Optical Materials Express</i> , 2021, 11, 3099.	1.6	2
9	Preparation and Research of Monolayer WS <sub>2</sub> FETs Encapsulated by h-BN Material. <i>Micromachines</i> , 2021, 12, 1006.	1.4	5
10	First-Principles Study on the Effect of Strain on Single-Layer Molybdenum Disulfide. <i>Nanomaterials</i> , 2021, 11, 3127.	1.9	9
11	Improvement of Electrical Performance in Heterostructure Junctionless TFET Based on Dual Material Gate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 126.	1.3	18
12	Comprehensive Performance Quasi-Non-Volatile Memory Compatible with Large-Scale Preparation by Chemical Vapor Deposition. <i>Nanomaterials</i> , 2020, 10, 1471.	1.9	4
13	Fabrication and Characterization of MoS <sub>2</sub> /h-BN and WS <sub>2</sub> /h-BN Heterostructures. <i>Micromachines</i> , 2020, 11, 1114.	1.4	11
14	Graphene Electro-Optical Switch Modulator by Adjusting Propagation Length Based on Hybrid Plasmonic Waveguide in Infrared Band. <i>Sensors</i> , 2020, 20, 2864.	2.1	8
15	TCAD simulation of a double L-shaped gate tunnel field-effect transistor with a covered source-channel. <i>Micro and Nano Letters</i> , 2020, 15, 272-276.	0.6	11
16	Electrical performance of InAs/GaAs <sub>0.1</sub> Sb <sub>0.9</sub> heterostructure junctionless TFET with dual-material gate and Gaussian-doped source. <i>Semiconductor Science and Technology</i> , 2020, 35, 095004.	1.0	13
17	Filtering Characteristics of Phonon Polaritons Waves Based on Dielectric-h-BN-Dielectric Structure in Mid-Infrared Band. <i>Nanomaterials</i> , 2020, 10, 878.	1.9	1
18	The Large-Scale Preparation and Optical Properties of MoS <sub>2</sub> /WS <sub>2</sub> Vertical Hetero-Junction. <i>Molecules</i> , 2020, 25, 1857.	1.7	7

#	ARTICLE	IF	CITATIONS
19	TCAD Simulation of the Doping-Less TFET with Ge/SiGe/Si Hetero-Junction and Hetero-Gate Dielectric for the Enhancement of Device Performance. <i>Coatings</i> , 2020, 10, 278.	1.2	4
20	Research on the Preparation and Spectral Characteristics of Graphene/TMDs Hetero-structures. <i>Nanoscale Research Letters</i> , 2020, 15, 219.	3.1	8
21	A Novel Dopingless Fin-Shaped SiGe Channel TFET with Improved Performance. <i>Nanoscale Research Letters</i> , 2020, 15, 202.	3.1	25
22	A novel Ge based overlapping gate dopingless tunnel FET with high performance. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 100902.	0.8	9
23	Probing the Field-Effect Transistor with Monolayer MoS <sub>2</sub> Prepared by APCVD. <i>Nanomaterials</i> , 2019, 9, 1209.	1.9	10
24	A Horizontal-Gate Monolayer MoS <sub>2</sub> Transistor Based on Image Force Barrier Reduction. <i>Nanomaterials</i> , 2019, 9, 1245.	1.9	10
25	Design and Investigation of a Dual Material Gate Arsenic Alloy Heterostructure Junctionless TFET with a Lightly Doped Source. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4104.	1.3	8
26	Design and Investigation of the High Performance Doping-Less TFET with Ge/Si <sub>0.6</sub> Ge <sub>0.4</sub> /Si Heterojunction. <i>Micromachines</i> , 2019, 10, 424.	1.4	10
27	A Doping-Less Tunnel Field-Effect Transistor with Si <sub>0.6</sub> Ge <sub>0.4</sub> Heterojunction for the Improvement of the Onâ€œOff Current Ratio and Analog/RF Performance. <i>Electronics (Switzerland)</i> , 2019, 8, 574.	1.8	9
28	Probing the Optical Properties of MoS <sub>2</sub> on SiO <sub>2</sub> /Si and Sapphire Substrates. <i>Nanomaterials</i> , 2019, 9, 740.	1.9	25
29	Design and Investigation of the Junction-Less TFET with Ge/Si <sub>0.3</sub> Ge <sub>0.7</sub> /Si Heterojunction and Heterogeneous Gate Dielectric. <i>Electronics (Switzerland)</i> , 2019, 8, 476.	1.8	14
30	Probing the Growth Improvement of Large-Size High Quality Monolayer MoS <sub>2</sub> by APCVD. <i>Nanomaterials</i> , 2019, 9, 433.	1.9	9
31	Design and investigation of dopingless dual-gate tunneling transistor based on line tunneling. <i>AIP Advances</i> , 2019, 9, .	0.6	10
32	A New Electro-Optical Switch Modulator Based on the Surface Plasmon Polaritons of Graphene in Mid-Infrared Band. <i>Sensors</i> , 2019, 19, 89.	2.1	10
33	Research on the Factors Affecting the Growth of Large-Size Monolayer MoS <sub>2</sub> by APCVD. <i>Materials</i> , 2018, 11, 2562.	1.3	6