

Houk Jang

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

13,564
citations

430442

18
h-index

610482

24
g-index

32
all docs

32
docs citations

32
times ranked

19482
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale pattern growth of graphene films for stretchable transparent electrodes. <i>Nature</i> , 2009, 457, 706-710.	13.7	9,624
2	Wafer-Scale Synthesis and Transfer of Graphene Films. <i>Nano Letters</i> , 2010, 10, 490-493.	4.5	1,062
3	Graphene-Based Flexible and Stretchable Electronics. <i>Advanced Materials</i> , 2016, 28, 4184-4202.	11.1	537
4	Chemical Vapor Deposition-Grown Graphene: The Thinnest Solid Lubricant. <i>ACS Nano</i> , 2011, 5, 5107-5114.	7.3	462
5	High-Performance Flexible Graphene Field Effect Transistors with Ion Gel Gate Dielectrics. <i>Nano Letters</i> , 2010, 10, 3464-3466.	4.5	390
6	Stretchable Graphene Transistors with Printed Dielectrics and Gate Electrodes. <i>Nano Letters</i> , 2011, 11, 4642-4646.	4.5	351
7	Vertical MoS ₂ Double-Layer Memristor with Electrochemical Metallization as an Atomic-Scale Synapse with Switching Thresholds Approaching 100 mV. <i>Nano Letters</i> , 2019, 19, 2411-2417.	4.5	288
8	Conformal, graphene-based triboelectric nanogenerator for self-powered wearable electronics. <i>Nano Energy</i> , 2016, 27, 298-305.	8.2	152
9	An Atomically Thin Optoelectronic Machine Vision Processor. <i>Advanced Materials</i> , 2020, 32, e2002431.	11.1	111
10	Local Strain Induced Band Gap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2017, 29, 5124-5133.	3.2	97
11	Ultra-high modulation depth exceeding 2,400% in optically controlled topological surface plasmons. <i>Nature Communications</i> , 2015, 6, 8814.	5.8	76
12	Flexible, transparent single-walled carbon nanotube transistors with graphene electrodes. <i>Nanotechnology</i> , 2010, 21, 425201.	1.3	70
13	Highly Sensitive, Gate-Tunable, Room-Temperature Mid-Infrared Photodetection Based on Graphene-Bi ₂ Se ₃ Heterostructure. <i>ACS Photonics</i> , 2017, 4, 482-488.	3.2	70
14	Lithography-free plasma-induced patterned growth of MoS ₂ and its heterojunction with graphene. <i>Nanoscale</i> , 2016, 8, 15181-15188.	2.8	68
15	Quantum Confinement Effects in Transferrable Silicon Nanomembranes and Their Applications on Unusual Substrates. <i>Nano Letters</i> , 2013, 13, 5600-5607.	4.5	49
16	Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide. <i>Small</i> , 2016, 12, 5720-5727.	5.2	46
17	Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS ₂ Nanosheets. <i>Advanced Materials</i> , 2018, 30, e1705190.	11.1	23
18	Mechanically flexible thin film transistors and logic gates on plastic substrates by use of single-crystal silicon wires from bulk wafers. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	18

#	ARTICLE	IF	CITATIONS
19	Stretchable Si Logic Devices with Graphene Interconnects. <i>Small</i> , 2015, 11, 6272-6277.	5.2	15
20	Ultrasoft silicon nanomembranes: thickness-dependent effective elastic modulus. <i>Nanoscale</i> , 2019, 11, 15184-15194.	2.8	15
21	Vertical field effect tunneling transistor based on graphene-ultrathin Si nanomembrane heterostructures. <i>2D Materials</i> , 2015, 2, 044006.	2.0	12
22	Observation of the Inverse Giant Piezoresistance Effect in Silicon Nanomembranes Probed by Ultrafast Terahertz Spectroscopy. <i>Nano Letters</i> , 2014, 14, 6942-6948.	4.5	11
23	Dual Resonant Sum Frequency Generations from Two-Dimensional Materials. <i>Nano Letters</i> , 2020, 20, 4530-4536.	4.5	8
24	A 200 x 256 Image Sensor Heterogeneously Integrating a 2D Nanomaterial-Based Photo-FET Array and CMOS Time-to-Digital Converters. , 2022, , .		5
25	Hydrogen Defect Passivation of Silicon Transistor on Plastic for High Performance Flexible Device Application. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H80.	2.2	2
26	Giant modulation depth in the photoexcited topological surface plasmons exceeding 2,400 % . , 2015, , .		0
27	Flexible Electronics: Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide (<i>Small</i> 41/2016). <i>Small</i> , 2016, 12, 5650-5650.	5.2	0
28	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS2 Nanosheets (<i>Adv. Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5</i>)	11.1	0
29	Ultrafast terahertz spectroscopy of the inverse giant piezoresistance effect in silicon nanomembranes. , 2015, , .		0