

# Houk Jang

## List of Publications by Year in descending order

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29  
papers

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citations

430442

18  
h-index

610482

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g-index

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32  
docs citations

32  
times ranked

19482  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 200 x 256 Image Sensor Heterogeneously Integrating a 2D Nanomaterial-Based Photo-FET Array and CMOS Time-to-Digital Converters. , 2022, , .		5
2	An Atomically Thin Optoelectronic Machine Vision Processor. Advanced Materials, 2020, 32, e2002431.	11.1	111
3	Dual Resonant Sum Frequency Generations from Two-Dimensional Materials. Nano Letters, 2020, 20, 4530-4536.	4.5	8
4	Ultrasoft silicon nanomembranes: thickness-dependent effective elastic modulus. Nanoscale, 2019, 11, 15184-15194.	2.8	15
5	Vertical MoS <sub>2</sub> Double-Layer Memristor with Electrochemical Metallization as an Atomic-Scale Synapse with Switching Thresholds Approaching 100 mV. Nano Letters, 2019, 19, 2411-2417.	4.5	288
6	Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS <sub>2</sub> Nanosheets. Advanced Materials, 2018, 30, e1705190.	11.1	23
7	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS <sub>2</sub> Nanosheets (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo	11.1	11.1
8	Highly Sensitive, Gate-Tunable, Room-Temperature Mid-Infrared Photodetection Based on Graphene-Bi <sub>2</sub> Se <sub>3</sub> Heterostructure. ACS Photonics, 2017, 4, 482-488.	3.2	70
9	Local Strain Induced Band Gap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides. Chemistry of Materials, 2017, 29, 5124-5133.	3.2	97
10	Graphene-Based Flexible and Stretchable Electronics. Advanced Materials, 2016, 28, 4184-4202.	11.1	537
11	Lithography-free plasma-induced patterned growth of MoS <sub>2</sub> and its heterojunction with graphene. Nanoscale, 2016, 8, 15181-15188.	2.8	68
12	Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide. Small, 2016, 12, 5720-5727.	5.2	46
13	Conformal, graphene-based triboelectric nanogenerator for self-powered wearable electronics. Nano Energy, 2016, 27, 298-305.	8.2	152
14	Flexible Electronics: Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide (Small 41/2016). Small, 2016, 12, 5650-5650.	5.2	0
15	Stretchable Si Logic Devices with Graphene Interconnects. Small, 2015, 11, 6272-6277.	5.2	15
16	Giant modulation depth in the photoexcited topological surface plasmons exceeding 2,400 %. , 2015, , .		0
17	Vertical field effect tunneling transistor based on graphene-ultrathin Si nanomembrane heterostructures. 2D Materials, 2015, 2, 044006.	2.0	12
18	Ultra-high modulation depth exceeding 2,400% in optically controlled topological surface plasmons. Nature Communications, 2015, 6, 8814.	5.8	76

#	ARTICLE	IF	CITATIONS
19	Ultrafast terahertz spectroscopy of the inverse giant piezoresistance effect in silicon nanomembranes. , 2015, , .		0
20	Observation of the Inverse Giant Piezoresistance Effect in Silicon Nanomembranes Probed by Ultrafast Terahertz Spectroscopy. Nano Letters, 2014, 14, 6942-6948.	4.5	11
21	Quantum Confinement Effects in Transferrable Silicon Nanomembranes and Their Applications on Unusual Substrates. Nano Letters, 2013, 13, 5600-5607.	4.5	49
22	Chemical Vapor Deposition-Grown Graphene: The Thinnest Solid Lubricant. ACS Nano, 2011, 5, 5107-5114.	7.3	462
23	Stretchable Graphene Transistors with Printed Dielectrics and Gate Electrodes. Nano Letters, 2011, 11, 4642-4646.	4.5	351
24	Mechanically flexible thin film transistors and logic gates on plastic substrates by use of single-crystal silicon wires from bulk wafers. Applied Physics Letters, 2010, 96, .	1.5	18
25	Hydrogen Defect Passivation of Silicon Transistor on Plastic for High Performance Flexible Device Application. Electrochemical and Solid-State Letters, 2010, 13, H80.	2.2	2
26	High-Performance Flexible Graphene Field Effect Transistors with Ion Gel Gate Dielectrics. Nano Letters, 2010, 10, 3464-3466.	4.5	390
27	Wafer-Scale Synthesis and Transfer of Graphene Films. Nano Letters, 2010, 10, 490-493.	4.5	1,062
28	Flexible, transparent single-walled carbon nanotube transistors with graphene electrodes. Nanotechnology, 2010, 21, 425201.	1.3	70
29	Large-scale pattern growth of graphene films for stretchable transparent electrodes. Nature, 2009, 457, 706-710.	13.7	9,624