

# Hyun Ho Kim

## List of Publications by Year in descending order

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43  
papers

1,959  
citations

279798

23  
h-index

276875

41  
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all docs

44  
docs citations

44  
times ranked

3541  
citing authors

#	ARTICLE	IF	CITATIONS
1	One Million Percent Tunnel Magnetoresistance in a Magnetic van der Waals Heterostructure. Nano Letters, 2018, 18, 4885-4890.	9.1	230
2	Single-Gate Bandgap Opening of Bilayer Graphene by Dual Molecular Doping. Advanced Materials, 2012, 24, 407-411.	21.0	228
3	Evolution of interlayer and intralayer magnetism in three atomically thin chromium trihalides. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11131-11136.	7.1	223
4	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	14.6	149
5	Raman fingerprint of two terahertz spin wave branches in a two-dimensional honeycomb Ising ferromagnet. Nature Communications, 2018, 9, 5122.	12.8	97
6	Boosting Photon Harvesting in Organic Solar Cells with Highly Oriented Molecular Crystals via Graphene-Organic Heterointerface. ACS Nano, 2015, 9, 8206-8219.	14.6	77
7	Wetting-Assisted Crack- and Wrinkle-Free Transfer of Wafer-Scale Graphene onto Arbitrary Substrates over a Wide Range of Surface Energies. Advanced Functional Materials, 2016, 26, 2070-2077.	14.9	73
8	Water-Free Transfer Method for CVD-Grown Graphene and Its Application to Flexible Air-Stable Graphene Transistors. Advanced Materials, 2014, 26, 3213-3217.	21.0	67
9	Clean Transfer of Wafer-Scale Graphene via Liquid Phase Removal of Polycyclic Aromatic Hydrocarbons. ACS Nano, 2015, 9, 4726-4733.	14.6	61
10	Atomically Thin Epitaxial Template for Organic Crystal Growth Using Graphene with Controlled Surface Wettability. Nano Letters, 2015, 15, 2474-2484.	9.1	55
11	Substrate-Induced Solvent Intercalation for Stable Graphene Doping. ACS Nano, 2013, 7, 1155-1162.	14.6	54
12	Heterogeneous Solid Carbon Source-Assisted Growth of High-Quality Graphene via CVD at Low Temperatures. Advanced Functional Materials, 2016, 26, 562-568.	14.9	52
13	Dimensionality-driven orthorhombic $\text{MoTe}_2$ at room temperature. Physical Review B, 2018, 97, .	3.2	51
14	Tailored Tunnel Magnetoresistance Response in Three Ultrathin Chromium Trihalides. Nano Letters, 2019, 19, 5739-5745.	9.1	51
15	Roadmap on quantum nanotechnologies. Nanotechnology, 2021, 32, 162003.	2.6	45
16	Magnetic-Field-Induced Quantum Phase Transitions in a van der Waals Magnet. Physical Review X, 2020, 10, .	8.9	41
17	Doping Graphene with an Atomically Thin Two Dimensional Molecular Layer. Advanced Materials, 2014, 26, 8141-8146.	21.0	40
18	Observation of the polaronic character of excitons in a two-dimensional semiconducting magnet CrI <sub>3</sub> . Nature Communications, 2020, 11, 4780.	12.8	34

#	ARTICLE	IF	CITATIONS
19	Facet-Mediated Growth of High-Quality Monolayer Graphene on Arbitrarily Rough Copper Surfaces. <i>Advanced Materials</i> , 2016, 28, 2010-2017.	21.0	31
20	Sheet Size-Induced Evaporation Behaviors of Inkjet-Printed Graphene Oxide for Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 3193-3199.	8.0	28
21	Inverse Transfer Method Using Polymers with Various Functional Groups for Controllable Graphene Doping. <i>ACS Nano</i> , 2014, 8, 7968-7975.	14.6	26
22	Effects of iron(III) p-toluenesulfonate hexahydrate oxidant on the growth of conductive poly(3,4-ethylenedioxythiophene) (PEDOT) nanofilms by vapor phase polymerization. <i>Synthetic Metals</i> , 2011, 161, 1347-1352.	3.9	23
23	The effects of the surface morphology of poly(3,4-ethylenedioxythiophene) electrodes on the growth of pentacene, and the electrical performance of the bottom contact pentacene transistor. <i>Solid-State Electronics</i> , 2012, 67, 70-73.	1.4	23
24	Effects of the FeCl <sub>3</sub> concentration on the polymerization of conductive poly(3,4-ethylenedioxythiophene) thin films on (3-aminopropyl) trimethoxysilane monolayer-coated SiO <sub>2</sub> surfaces. <i>Metals and Materials International</i> , 2009, 15, 977-981.	3.4	21
25	Magneto-Memristive Switching in a 2D Layer Antiferromagnet. <i>Advanced Materials</i> , 2020, 32, e1905433.	21.0	21
26	Tunable layered-magnetism-assisted magneto-Raman effect in a two-dimensional magnet CrI <sub>3</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24664-24669.	7.1	20
27	Graphene growth under Knudsen molecular flow on a confined catalytic metal coil. <i>Nanoscale</i> , 2015, 7, 1314-1324.	5.6	17
28	Aminosilane monolayer-assisted patterning of conductive poly(3,4-ethylenedioxythiophene) source/drain electrodes for bottom contact pentacene thin film transistors. <i>Organic Electronics</i> , 2010, 11, 338-343.	2.6	16
29	Tailoring the crystallinity of solution-processed 6,13-bis(triisopropylsilylethynyl)pentacene via controlled solidification. <i>Soft Matter</i> , 2019, 15, 7369-7373.	2.7	15
30	Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI <sub>3</sub> . <i>ACS Nano</i> , 2021, 15, 10444-10450.	14.6	14
31	Effects of Solvents on Poly(3,4-Ethylenedioxythiophene) (PEDOT) Thin Films Deposited on a (3-Aminopropyl)Trimethoxysilane (APS) Monolayer by Vapor Phase Polymerization. <i>Electronic Materials Letters</i> , 2010, 6, 17-22.	2.2	13
32	Ubiquitous Graphene Electronics on Scotch Tape. <i>Scientific Reports</i> , 2015, 5, 12575.	3.3	12
33	Application of tosylate-doped poly(3,4-ethylenedioxythiophene) (PEDOT) films into bottom contact pentacene organic thin film transistors (OTFTs). <i>Thin Solid Films</i> , 2010, 518, 6315-6319.	1.8	10
34	High Performance Flexible Organic Thin Film Transistors (OTFTs) with Octadecyltrichlorosilane/Al <sub>2</sub> O <sub>3</sub> /Poly(4-vinylphenol) Multilayer Insulators. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1348-1352.	0.9	10
35	Boosting the Optoelectronic Properties of Molybdenum Diselenide by Combining Phase Transition Engineering with Organic Cationic Dye Doping. <i>ACS Nano</i> , 2021, 15, 17769-17779.	14.6	10
36	Improved moisture stability of graphene transistors by controlling water molecule adsorption. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130579.	7.8	6

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37	Electroceutical Residue-Free Graphene Device for Dopamine Monitoring and Neural Stimulation. ACS Biomaterials Science and Engineering, 2019, 5, 2013-2020.	5.2	5
38	Fabrication of an a-IGZO Thin Film Transistor Using Selective Deposition of Cobalt by the Self-Assembly Monolayer (SAM) Process. Journal of Nanoscience and Nanotechnology, 2011, 11, 787-790.	0.9	4
39	Effect of solvent structural isomer on microstructural evolution in polythiophene film during solidification. Organic Electronics, 2019, 71, 150-155.	2.6	4
40	Temperature Dependence of Bis(triisopropylsilylethynyl)-Pentacene Nanofilm Deposited on Octadecyltrichlorosilane Self Assembled Monolayer Surface as a Transistor Channel. Journal of Nanoscience and Nanotechnology, 2010, 10, 3489-3492.	0.9	1
41	Graphene: Water-Free Transfer Method for CVD-Grown Graphene and Its Application to Flexible Air-Stable Graphene Transistors (Adv. Mater. 20/2014). Advanced Materials, 2014, 26, 3166-3166.	21.0	1
42	Graphene: Doping Graphene with an Atomically Thin Two Dimensional Molecular Layer (Adv. Mater.)	21.0	0
43	Memristive Switching: Magneto-Memristive Switching in a 2D Layer Antiferromagnet (Adv. Mater.)	21.0	0