

# Jae Hoon Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6147451/publications.pdf>

Version: 2024-02-01

63  
papers

2,075  
citations

293460

24  
h-index

263392

45  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroicâ€Enabled Magneticâ€Excitons in 2D Quantumâ€Entangled Van der Waals Antiferromagnet NiL <sub>2</sub> . <i>Advanced Materials</i> , 2022, 34, e2109144.	11.1	8
2	Multiferroicâ€Enabled Magneticâ€Excitons in 2D Quantumâ€Entangled Van der Waals Antiferromagnet NiL <sub>2</sub> (Adv. Mater. 10/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	0
3	High- <i>k</i> perovskite gate oxide for modulation beyond 10 <sup>14</sup> cm <sup>-2</sup> . <i>Science Advances</i> , 2022, 8, eabm3962.	4.7	6
4	Deep-UV Transparent Conducting Oxide La-Doped SrSnO <sub>3</sub> with a High Figure of Merit. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3623-3631.	2.0	7
5	Exotic optoelectronic behaviors in CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> perovskite single crystals: Co-existence of free and bound excitons with structural phase transitions. <i>Applied Physics Letters</i> , 2021, 118, 143301.	1.5	5
6	Terahertz Spectroscopic Analysis of the Vermilion Pigment in Free-Standing and Polyethylene-Mixed Forms. <i>ACS Omega</i> , 2021, 6, 13802-13806.	1.6	8
7	Enhanced Spin-to-Charge Conversion Efficiency in Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Observed by Spintronic Terahertz Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23153-23160.	4.0	11
8	Possible Persistence of Multiferroic Order down to Bilayer Limit of van der Waals Material NiL <sub>2</sub> . <i>Nano Letters</i> , 2021, 21, 5126-5132.	4.5	44
9	Improvements in Thermal Stability of Sb <sub>2</sub> Te <sub>3</sub> by Modulation of Microstructure via Carbon Incorporation. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3472-3481.	2.0	4
10	Exciton-driven antiferromagnetic metal in a correlated van der Waals insulator. <i>Nature Communications</i> , 2021, 12, 4837.	5.8	39
11	Colossal angular magnetoresistance in ferrimagnetic nodal-line semiconductors. <i>Nature</i> , 2021, 599, 576-581.	13.7	23
12	Terahertz spectroscopy of antiferromagnetic resonances in YFe <sub>1-x</sub> MnxO <sub>3</sub> across a spin reorientation transition. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
13	Coherent many-body exciton in van der Waals antiferromagnet NiPS <sub>3</sub> . <i>Nature</i> , 2020, 583, 785-789.	13.7	134
14	Kagome van-der-Waals Pd <sub>3</sub> P <sub>2</sub> S <sub>8</sub> with flat band. <i>Scientific Reports</i> , 2020, 10, 20998.	1.6	16
15	Topological Phase Control of Surface States in Bi <sub>2</sub> Se <sub>3</sub> via Spinâ€Orbit Coupling Modulation through Interface Engineering between HfO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12215-12226.	4.0	4
16	Directed self-assembly of a helical nanofilament liquid crystal phase for use as structural color reflectors. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	30
17	Phase-change like process through bond switching in distorted and resonantly bonded crystal. <i>Scientific Reports</i> , 2019, 9, 12816.	1.6	4
18	Single-crystalline Cu <sub>2</sub> O thin films of optical quality as obtained by the oxidation of single-crystal Cu thin films at low temperature. <i>APL Materials</i> , 2019, 7, .	2.2	19

#	ARTICLE	IF	CITATIONS
19	Bulk properties of the van der Waals hard ferromagnet $\text{V}_6\text{S}_8$ . Physical Review B, 2019, 99, .	1.1	9
20	Tuning of Topological Dirac States via Modification of van der Waals Gap in Strained Ultrathin $\text{Bi}_2\text{Se}_3$ Films. Journal of Physical Chemistry C, 2018, 122, 23739-23748.	1.5	9
21	Band gap and mobility of epitaxial perovskite $\text{BaSn}_{1-x}\text{Hf}_x\text{O}_3$ thin films. Physical Review Materials, 2018, 2, .	0.9	3
22	High-k perovskite gate oxide $\text{BaHfO}_3$ . APL Materials, 2017, 5, .	2.2	28
23	Terahertz electrodynamics and superconducting energy gap of NbN. Journal of the Korean Physical Society, 2017, 71, 571-574.	0.3	4
24	Optimal methodologies for terahertz time-domain spectroscopic analysis of traditional pigments in powder form. Journal of the Korean Physical Society, 2017, 70, 866-871.	0.3	11
25	Hydrogenated monolayer graphene with reversible and tunable wide band gap and its field-effect transistor. Nature Communications, 2016, 7, 13261.	5.8	136
26	Tuning the Fermi level with topological phase transition by internal strain in a topological insulator $\text{Bi}_2\text{Se}_3$ thin film. Nanoscale, 2016, 8, 741-751.	2.8	23
27	All-perovskite transparent high mobility field effect using epitaxial $\text{BaSnO}_3$ and $\text{LaInO}_3$ . APL Materials, 2015, 3, .	2.2	107
28	Optical Band Gap and Hall Transport Characteristics of Lanthanide-Ion-Modified DNA Crystals. Journal of Physical Chemistry C, 2015, 119, 14443-14449.	1.5	24
29	Double Fano resonances in a composite metamaterial possessing tripod plasmonic resonances. , 2015, . .		0
30	Chemical and Physical Characteristics of Doxorubicin Hydrochloride Drug-Doped Salmon DNA Thin Films. Scientific Reports, 2015, 5, 12722.	1.6	49
31	Metal Semiconductor Field-Effect Transistor with $\text{MoS}_2$ /Conducting $\text{NiO}$ van der Waals Schottky Interface for Intrinsic High Mobility and Photoswitching Speed. ACS Nano, 2015, 9, 8312-8320.	7.3	82
32	Terahertz single conductance quantum and topological phase transitions in topological insulator $\text{Bi}_2\text{Se}_3$ ultrathin films. Nature Communications, 2015, 6, 6552.	5.8	79
33	DNA reusability and optoelectronic characteristics of streptavidin-conjugated DNA crystals on a quartz substrate. RSC Advances, 2015, 5, 39409-39415.	1.7	14
34	Reflection terahertz time-domain spectroscopy of RDX and HMX explosives. Journal of Applied Physics, 2014, 115, .	1.1	48
35	Dopant-site-dependent scattering by dislocations in epitaxial films of perovskite semiconductor $\text{BaSnO}_3$ . APL Materials, 2014, 2, .	2.2	61
36	Terahertz time-domain and Fourier-transform infrared spectroscopy of traditional Korean pigments. Journal of the Korean Physical Society, 2014, 64, 727-731.	0.3	23

#	ARTICLE	IF	CITATIONS
37	Terahertz electrodynamics and superconducting energy gap of NbTiN. Journal of Applied Physics, 2013, 114, .	1.1	22
38	Interaction of itinerant electrons and spin fluctuations in electron-doped cuprates. Physical Review B, 2013, 87, .	1.1	11
39	Terahertz and optical study of monolayer graphene processed by plasma oxidation. Applied Physics Letters, 2013, 102, .	1.5	24
40	Terahertz, optical, and Raman signatures of monolayer graphene behavior in thermally reduced graphene oxide films. Journal of Applied Physics, 2013, 113, .	1.1	20
41	Dependence of THz metamaterial resonance on doping carrier density and pattern Line width. , 2013, , .		0
42	Data Storage: MoS <sub>2</sub> Nanosheets for Top-Gate Nonvolatile Memory Transistor Channel (Small 20/2012). Small, 2012, 8, 3220-3220.	5.2	0
43	Ambient-protecting organic light transducer grown on pentacene-channel of photo-gating complementary inverter. Journal of Materials Chemistry, 2012, 22, 4444.	6.7	6
44	Terahertz study of reduced graphene oxide. , 2012, , .		0
45	DC Versus Pulse-Type Negative Bias Stress Effects on the Instability of Amorphous InGaZnO Transistors Under Light Illumination. IEEE Electron Device Letters, 2011, 32, 1704-1706.	2.2	20
46	Self-assembled organic channel-polymer dielectric layer for organic thin-film transistor applications. AIP Conference Proceedings, 2011, , .	0.3	0
47	Ferroelectric property improvement of poly(vinylidene fluoride/trifluoroethylene) polymer exposed to a plasma ambient. Applied Physics Letters, 2010, 97, 162911.	1.5	2
48	Density of trap states measured by photon probe into ZnO based thin-film transistors. Applied Physics Letters, 2010, 97, .	1.5	30
49	Terahertz time-domain spectroscopy of NiO <sub>x</sub> thin films. , 2009, , .		0
50	Time-domain terahertz spectroscopy of LaSrAlO <sub>4</sub> . , 2009, , .		0
51	Rubrene polycrystalline transistor channel achieved through in situ vacuum annealing. Applied Physics Letters, 2007, 91, 033506.	1.5	36
52	Ultraviolet-enhanced device properties in pentacene-based thin-film transistors. Applied Physics Letters, 2007, 90, 113515.	1.5	25
53	Rubrene thin-film transistors with crystalline and amorphous channels. Applied Physics Letters, 2007, 90, 153512.	1.5	46
54	High-gain pentacene-based inverter achieved through high and low energy ultraviolet treatments. Applied Physics Letters, 2007, 91, .	1.5	20

#	ARTICLE	IF	CITATIONS
55	Probing the work function of a gate metal with a top-gate ZnO-thin-film transistor with a polymer dielectric. Applied Physics Letters, 2006, 88, 023504.	1.5	39
56	Reliable semi-transparent pentacene thin-film transistors with polymer gate dielectric layers cured at an optimum temperature. Materials Research Society Symposia Proceedings, 2005, 905, 1.	0.1	0
57	Dynamic and static photoresponse of ultraviolet-detecting thin-film transistors based on transparent NiOx electrodes and an n-ZnO channel. Journal of Applied Physics, 2005, 97, 076104.	1.1	19
58	Transparent thin-film transistors with pentacene channel, AlOx gate, and NiOx electrodes. Applied Physics Letters, 2005, 86, 123505.	1.5	40
59	Formation of midgap states and ferromagnetism in semiconducting CaB6. Physical Review B, 2004, 69, .	1.1	36
60	Correlation between photoelectric and optical absorption spectra of thermally evaporated pentacene films. Applied Physics Letters, 2004, 84, 1701-1703.	1.5	109
61	Ultraviolet-enhanced photodiode employing n-ZnO/p-Si structure. Applied Physics Letters, 2003, 83, 2946-2948.	1.5	368
62	Hole transport in amorphous-crystalline-mixed and amorphous pentacene thin-film transistors. Applied Physics Letters, 2002, 81, 4640-4642.	1.5	35
63	Normal-State Optical Response Functions of MgB2 Superconductor. Journal of Superconductivity and Novel Magnetism, 2002, 15, 475-477.	0.5	4