

# Daisuke Kiriya

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

9,705  
citations

201575

27  
h-index

206029

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

15910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-layered assembly of vanadium pentoxide nanowires on graphene for nanowire-based lithography technique. <i>Nanotechnology</i> , 2022, 33, 075602.	1.3	0
2	Metallic Transport in Monolayer and Multilayer Molybdenum Disulfides by Molecular Surface Charge Transfer Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .	4.0	3
3	Strong Photoluminescence Enhancement from Bilayer Molybdenum Disulfide via the Combination of UV Irradiation and Superacid Molecular Treatment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3530.	1.3	2
4	Photoconductive Coordination Polymer with a Lead-Sulfur Two-Dimensional Coordination Sheet Structure. <i>Inorganic Chemistry</i> , 2021, 60, 5436-5441.	1.9	4
5	Ultralarge Photoluminescence Enhancement of Monolayer Molybdenum Disulfide by Spontaneous Superacid Nanolayer Formation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25280-25289.	4.0	8
6	Organic Thin-film Solar Cells Using Benzotrithiophene Derivatives Bearing Acceptor Units as Non-Fullerene Acceptors. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 4620-4629.	1.2	3
7	Functional Hybridization of Molecules with 2D Semiconducting Materials. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2021, 70, 721-726.	0.1	0
8	Photoactivation of Strong Photoluminescence in Superacid-Treated Monolayer Molybdenum Disulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36496-36504.	4.0	24
9	Convection-Flow-Assisted Preparation of a Strong Electron Dopant, Benzyl Viologen, for Surface-Charge Transfer Doping of Molybdenum Disulfide. <i>ChemistryOpen</i> , 2019, 8, 908-914.	0.9	6
10	InAs FinFETs Performance Enhancement by Superacid Surface Treatment. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1856-1861.	1.6	10
11	Electronic Structure Mosaicity of Monolayer Transition Metal Dichalcogenides by Spontaneous Pattern Formation of Donor Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15922-15926.	4.0	3
12	Solvent engineering for strong photoluminescence enhancement of monolayer molybdenum disulfide in redox-active molecular treatment. <i>Applied Physics Express</i> , 2019, 12, 051014.	1.1	5
13	Flexible Electronics toward Wearable Sensing. <i>Accounts of Chemical Research</i> , 2019, 52, 523-533.	7.6	713
14	Tuning Transition-Metal Dichalcogenide Field-Effect Transistors by Spontaneous Pattern Formation of an Ultrathin Molecular Dopant Film. <i>ACS Nano</i> , 2018, 12, 10123-10129.	7.3	3
15	Systematic Study of Photoluminescence Enhancement in Monolayer Molybdenum Disulfide by Acid Treatment. <i>Langmuir</i> , 2018, 34, 10243-10249.	1.6	29
16	Nanoscale Junction Formation by Gas-Phase Monolayer Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20648-20655.	4.0	22
17	Room temperature multiplexed gas sensing using chemical-sensitive 3.5-nm-thin silicon transistors. <i>Science Advances</i> , 2017, 3, e1602557.	4.7	142
18	Measuring the Edge Recombination Velocity of Monolayer Semiconductors. <i>Nano Letters</i> , 2017, 17, 5356-5360.	4.5	19

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19	Origin of the photoinduced current of strongly correlated YMnO <sub>3</sub> ferroelectric epitaxial films. Japanese Journal of Applied Physics, 2017, 56, 10PB08.	0.8	2
20	Carbon Nanotubes: Printed Carbon Nanotube Electronics and Sensor Systems (Adv. Mater. 22/2016). Advanced Materials, 2016, 28, 4396-4396.	11.1	8
21	Gold-Mediated Exfoliation of Ultralarge Optoelectronically-Perfect Monolayers. Advanced Materials, 2016, 28, 4053-4058.	11.1	307
22	Survey of dopant-free carrier-selective contacts for silicon solar cells. , 2016, , .		12
23	Application of 3D Printing for Smart Objects with Embedded Electronic Sensors and Systems. Advanced Materials Technologies, 2016, 1, 1600013.	3.0	167
24	Superacid Passivation of Crystalline Silicon Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 24205-24211.	4.0	38
25	Compliant substrate epitaxy: Au on $\text{MoS}_2$ . Physical Review B, 2016, 93, .		
26	Printed Carbon Nanotube Electronics and Sensor Systems. Advanced Materials, 2016, 28, 4397-4414.	11.1	369
27	General Thermal Texturization Process of $\text{MoS}_2$ for Efficient Electrocatalytic Hydrogen Evolution Reaction. Nano Letters, 2016, 16, 4047-4053.	4.5	106
28	Fully integrated wearable sensor arrays for multiplexed in situ perspiration analysis. Nature, 2016, 529, 509-514.	13.7	3,508
29	Recombination Kinetics and Effects of Superacid Treatment in Sulfur- and Selenium-Based Transition Metal Dichalcogenides. Nano Letters, 2016, 16, 2786-2791.	4.5	233
30	Direct growth of single-crystalline III-V semiconductors on amorphous substrates. Nature Communications, 2016, 7, 10502.	5.8	45
31	Large-Area Compliant Tactile Sensors Using Printed Carbon Nanotube Active-Matrix Backplanes. Advanced Materials, 2015, 27, 1561-1566.	11.1	198
32	Oriented Growth of Gold Nanowires on $\text{MoS}_2$ . Advanced Functional Materials, 2015, 25, 6257-6264.	7.8	21
33	Near-unity photoluminescence quantum yield in $\text{MoS}_2$ . Science, 2015, 350, 1065-1068.	6.0	993
34	Highly Uniform and Stable n-Type Carbon Nanotube Transistors by Using Positively Charged Silicon Nitride Thin Films. Nano Letters, 2015, 15, 392-397.	4.5	92
35	Air stable n-doping of WSe <sub>2</sub> by silicon nitride thin films with tunable fixed charge density. APL Materials, 2014, 2, .	2.2	76
36	Air-Stable Surface Charge Transfer Doping of $\text{MoS}_2$ by Benzyl Viologen. Journal of the American Chemical Society, 2014, 136, 7853-7856.	6.6	593

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37	Air Stable p-Doping of WSe <sub>2</sub> by Covalent Functionalization. ACS Nano, 2014, 8, 10808-10814.	7.3	208
38	Design of Surfactant-Substrate Interactions for Roll-to-Roll Assembly of Carbon Nanotubes for Thin-Film Transistors. Journal of the American Chemical Society, 2014, 136, 11188-11194.	6.6	60
39	Highly deformable liquid-state heterojunction sensors. Nature Communications, 2014, 5, 5032.	5.8	221
40	19.2% Efficient InP Heterojunction Solar Cell with Electron-Selective TiO <sub>2</sub> Contact. ACS Photonics, 2014, 1, 1245-1250.	3.2	116
41	Highly Stable Hysteresis-Free Carbon Nanotube Thin-Film Transistors by Fluorocarbon Polymer Encapsulation. ACS Applied Materials & Interfaces, 2014, 6, 8441-8446.	4.0	87
42	Carbon Nanotube Active-Matrix Backplanes for Mechanically Flexible Visible Light and X-ray Imagers. Nano Letters, 2013, 13, 5425-5430.	4.5	86
43	Synchronic Transformations of Molecular States and Macroscopic Phases in Valence-Tautomeric Complexes. European Journal of Inorganic Chemistry, 2013, 2013, 642-652.	1.0	15
44	Cellular building unit integrated with microstrand-shaped bacterial cellulose. Biomaterials, 2013, 34, 2421-2427.	5.7	53
45	Metre-long cell-laden microfibres exhibit tissue morphologies and functions. Nature Materials, 2013, 12, 584-590.	13.3	725
46	Morphological and spatial control of InP growth using closed-space sublimation. Journal of Applied Physics, 2012, 112, 123102.	1.1	18
47	Polymorph-Dependent Molecular Valence Tautomerism Synchronized with Crystal-Melt Phase Transitions. Chemistry of Materials, 2009, 21, 1980-1988.	3.2	27
48	2P-157 BIOMIMETIC FUNCTIONAL FIBROUS GEL CONSTRUCTED BY HIERARCHICAL SUPRAMOLECULAR ASSEMBLY OF ORGANIC MOLECULES(Cell biology,The 47th Annual Meeting of the Biophysical Society of) Tj ETQq000 rgBT0Overlock		
49	A Bistable Porous Coordination Polymer with a Bond-Switching Mechanism Showing Reversible Structural and Functional Transformations. Angewandte Chemie - International Edition, 2008, 47, 8843-8847.	7.2	182
50	Molecule-Based Valence Tautomeric Bistability Synchronized with a Macroscopic Crystal-Melt Phase Transition. Journal of the American Chemical Society, 2008, 130, 5515-5522.	6.6	78
51	A redox-active columnar metallomesogen and its cyclic voltammetric responses. Journal of Materials Chemistry, 2007, 17, 4136.	6.7	43