

Taekyeong Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7552520/publications.pdf>

Version: 2024-02-01

44
papers

785
citations

686830

13
h-index

500791

28
g-index

46
all docs

46
docs citations

46
times ranked

1276
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Energy Level Alignment and Coupling Strength in 4,4'-Bipyridine Single-Molecule Junctions. <i>Nano Letters</i> , 2014, 14, 794-798.	4.5	112
2	Charge transport and rectification in molecular junctions formed with carbon-based electrodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10928-10932.	3.3	95
3	Conductance of Molecular Junctions Formed with Silver Electrodes. <i>Nano Letters</i> , 2013, 13, 3358-3364.	4.5	86
4	Vertical and In-Plane Current Devices Using NbS ₂ /n-MoS ₂ van der Waals Schottky Junction and Graphene Contact. <i>Nano Letters</i> , 2018, 18, 1937-1945.	4.5	86
5	Van der Waals junction field effect transistors with both n- and p-channel transition metal dichalcogenides. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	66
6	Contact Effect of ReS ₂ /Metal Interface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26325-26332.	4.0	50
7	Molecularly Controlled Stark Effect Induces Significant Rectification in Polycyclic-Aromatic-Hydrocarbon-Terminated <i>i</i> -Alkanethiolates. <i>Nano Letters</i> , 2019, 19, 545-553.	4.5	35
8	High Efficiency Doping of Conjugated Polymer for Investigation of Intercorrelation of Thermoelectric Effects with Electrical and Morphological Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1151-1158.	4.0	32
9	Exploring Wholly Doped Conjugated Polymer Films Based on Hybrid Doping: Strategic Approach for Optimizing Electrical Conductivity and Related Thermoelectric Properties. <i>Advanced Functional Materials</i> , 2020, 30, 2004598.	7.8	32
10	Intrinsic Correlation between Electronic Structure and Degradation: From Few-Layer to Bulk Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3754-3758.	7.2	26
11	Local Mapping of the Thickness-Dependent Dielectric Constant of MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 3611-3615.	1.5	17
12	Multilayered nano-prism vertex tips for tip-enhanced Raman spectroscopy and imaging. <i>Analyst</i> , The, 2013, 138, 5588.	1.7	16
13	Length-dependent thermopower determination of amine-terminated oligophenyl single molecular junctions formed with Ag electrodes. <i>Journal of the Korean Physical Society</i> , 2015, 66, 602-606.	0.3	15
14	"SURFACE-PROGRAMMED ASSEMBLY" OF NANOTUBE/NANOWIRE-BASED INTEGRATED DEVICES. <i>Nano</i> , 2007, 02, 333-350.	0.5	13
15	Impact of Molecular Weight on Molecular Doping Efficiency of Conjugated Polymers and Resulting Thermoelectric Performances. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	13
16	Robust Single-Nanoparticle Probe for Contact-Mode Analysis and Dip-Pen Nanolithography. <i>Small</i> , 2008, 4, 1072-1075.	5.2	10
17	Observing the Layer-Number-Dependent Local Dielectric Response of WSe ₂ by Electrostatic Force Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6684-6690.	2.1	10
18	Direct Mapping of the Gate Response of a Multilayer WSe ₂ /MoS ₂ Heterostructure with Locally Different Degrees of Charge Depletion. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4010-4016.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Direct Observation of the Thickness-Dependent Dielectric Response of MoS ₂ and WSe ₂ . Journal of Physical Chemistry C, 2020, 124, 18316-18320.	1.5	8
20	Graphene nanonet for biological sensing applications. Nanotechnology, 2013, 24, 375302.	1.3	7
21	Linker-Independent Junction Formation Probability in Single-Molecule Junctions. Bulletin of the Korean Chemical Society, 2015, 36, 265-268.	1.0	6
22	Intrinsic Correlation between Electronic Structure and Degradation: From Few-Layer to Bulk Black Phosphorus. Angewandte Chemie, 2019, 131, 3794-3798.	1.6	6
23	Temperature Dependence of Conductance and Plateau Length for Single-Molecule Junctions Formed with Silver Electrodes. Journal of Physical Chemistry C, 2014, 118, 29962-29965.	1.5	5
24	High probability of single molecule junction formation with Ag electrodes. Current Applied Physics, 2015, 15, 124-128.	1.1	5
25	Reducing Gap Distance of Ag Electrodes by Oxygen Atomic Junction Formation. Journal of Physical Chemistry C, 2015, 119, 12703-12707.	1.5	4
26	A facile, one-pot synthesis of ultra-long nanoparticle-chained polyaniline wires. Journal of Materials Chemistry, 2011, 21, 17304.	6.7	3
27	Measuring the local electrical properties of individual vanadium-pentoxide nanowires by using electrostatic force microscopy. Journal of the Korean Physical Society, 2015, 67, 2081-2085.	0.3	3
28	Intrinsic Correlation between Electronic Structure and Degradation: From Few-Layer to Bulk Black Phosphorus (Angew. Chem. 12/2019). Angewandte Chemie, 2019, 131, 4107-4107.	1.6	3
29	Thermopower distribution of single molecule junctions with different interaction types. Journal of the Korean Physical Society, 2015, 67, 1553-1557.	0.3	2
30	Dipole-assisted carrier transport in bis(trifluoromethane) sulfonamide-treated O-ReS ₂ field-effect transistor. Nano Research, 2021, 14, 2207-2214.	5.8	2
31	Correlation between the Dielectric Response and Thickness of Vanadium Pentoxide Nanowires. ACS Applied Electronic Materials, 2022, 4, 124-129.	2.0	2
32	Probing the rupture of a Ag atomic junction in a Ag-Au mixed electrode. Journal of the Korean Physical Society, 2015, 67, 827-831.	0.3	1
33	Correlation between the electrical conductance and the mechanical deformation of a graphite surface. Materials Letters, 2015, 140, 83-86.	1.3	1
34	Dependence of the conductance change on the molecular orbitals in Ag and Au electrodes. Journal of the Korean Physical Society, 2016, 68, 279-282.	0.3	1
35	Hybrid Nanostructures: Fibronectin-Carbon-Nanotube Hybrid Nanostructures for Controlled Cell Growth (Small 1/2011). Small, 2011, 7, 55-55.	5.2	0
36	Direct measurement of time dependent diffusion for Ag and Au under ambient conditions. Journal of the Korean Physical Society, 2014, 65, 1825-1828.	0.3	0

#	ARTICLE	IF	CITATIONS
37	Correlation between friction and thickness of vanadium-pentoxide nanowires. Journal of the Korean Physical Society, 2015, 67, 1657-1660.	0.3	0
38	Tight-binding model for amine-terminated oligophenyl molecular junctions formed with carbon electrodes. Journal of the Korean Physical Society, 2015, 66, 1499-1502.	0.3	0
39	Pulling Speed Dependence of Single Molecular Plateau Length. Bulletin of the Korean Chemical Society, 2015, 36, 1645-1648.	1.0	0
40	Measuring Conductance of Phenylenediamine as a Molecular Sensor. Journal of Sensors, 2015, 2015, 1-6.	0.6	0
41	Substituent effect on the conductance of single-molecule junctions formed with silver electrodes. Journal of the Korean Physical Society, 2015, 67, 2077-2080.	0.3	0
42	Electrical conductance of single-molecular junctions formed with palladium electrodes. Journal of the Korean Physical Society, 2015, 66, 183-186.	0.3	0
43	Silver electrodes for reversible oxygen sensor applications. Journal of the Korean Physical Society, 2015, 67, 823-826.	0.3	0
44	Variation of energy level alignment in molecular junction elongation. Journal of the Korean Physical Society, 2016, 69, 1673-1676.	0.3	0