

Hyunwook Song

List of Publications by Year in descending order

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45
papers

1,765
citations

777949

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388640

36
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48
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48
docs citations

48
times ranked

2346
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge Transport Characteristics of Molecular Electronic Junctions Studied by Transition Voltage Spectroscopy. <i>Materials</i> , 2022, 15, 774.	1.3	5
2	Investigation of intrinsic charge transport via alkyl thiol molecular electronic junctions with conductive probe atomic force microscopy. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13568-13573.	1.1	1
3	Demonstration of Molecular Tunneling Junctions Based on Vertically Stacked Graphene Heterostructures. <i>Crystals</i> , 2022, 12, 787.	1.0	3
4	Noise spectroscopy of molecular electronic junctions. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	10
5	Spectroscopic interrogation and charge transport properties of molecular transistors. <i>Applied Spectroscopy Reviews</i> , 2019, 54, 803-828.	3.4	2
6	Structural and Charge Transport Properties of Molecular Tunneling Junctions with Single-Layer Graphene Electrodes. <i>Journal of the Korean Physical Society</i> , 2018, 72, 394-399.	0.3	1
7	Transition voltage spectroscopy analysis of charge transport through molecular nanojunctions. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 246-263.	3.4	6
8	Electrostatic Gate Control in Molecular Transistors. <i>Topics in Current Chemistry</i> , 2018, 376, 37.	3.0	5
9	A study on electrical contact at the PEDOT:PSS electrode/molecule interface in large-area molecular junctions. <i>Journal of the Korean Physical Society</i> , 2017, 71, 161-165.	0.3	0
10	Fabrication and characterization of graphene/molecule/graphene vertical junctions with aryl alkane monolayers. <i>Journal of the Korean Physical Society</i> , 2017, 71, 692-696.	0.3	1
11	Electrical transport characterization of benzenedithiol and methylbenzenethiol molecular junctions with PEDOT:PSS interlayer electrodes. <i>Journal of the Korean Physical Society</i> , 2016, 69, 561-565.	0.3	0
12	Investigation of molecular junctions with inelastic electron tunneling spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 603-620.	3.4	13
13	Electrical characterization of benzenedithiolate molecular electronic devices with graphene electrodes on rigid and flexible substrates. <i>Nanotechnology</i> , 2016, 27, 145301.	1.3	12
14	Electrical Characteristics of Benzenedithiol versus Methylbenzenethiol Self-Assembled Monolayers in Multilayer Graphene-Electrode Molecular Junctions. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8565-8568.	0.9	2
15	Fabrication and Characterization of Molecular Electronic Devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 921-938.	0.9	3
16	Investigation of inelastic electron tunneling spectra of metal-molecule-metal junctions fabricated using direct metal transfer method. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	18
17	Charge Transport of Alkanedithiol Self-assembled Monolayers Studied by Using Conducting Atomic Force Microscopy. <i>New Physics: Sae Mulli</i> , 2015, 65, 1053-1057.	0.0	0
18	Redox-Induced Asymmetric Electrical Characteristics of Ferrocene-Alkanethiolate Molecular Devices on Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , 2014, 24, 2472-2480.	7.8	68

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19	Molecular Electronics: Redox-Induced Asymmetric Electrical Characteristics of Ferrocene-Alkanethiolate Molecular Devices on Rigid and Flexible Substrates (Adv. Funct. Mater.) Tj ETQq1 1 0.7843.14 rgBT /Overlock	1.1	17
20	Inelastic electron tunneling spectroscopy of molecular transport junctions. Journal of the Korean Physical Society, 2014, 64, 1539-1544.	0.3	3
21	Molecular scale electronic devices using single molecules and molecular monolayers. Current Applied Physics, 2013, 13, 1157-1171.	1.1	17
22	Non-volatile memory characteristics of polyimide layers embedded with ZnO nanowires. Current Applied Physics, 2013, 13, 1237-1240.	1.1	6
23	Combing non-epitaxially grown nanowires for large-area electronic devices. Nanotechnology, 2013, 24, 285302.	1.3	8
24	Charge Transport in Metal-Molecule-Metal Junctions Probed by Conducting Atomic Force Microscopy. Bulletin of the Korean Chemical Society, 2013, 34, 1959-1960.	1.0	0
25	Tip-Loading, Force-Dependent Tunneling Behavior in Alkanethiol Self-Assembled Monolayers Studied Through Conducting Atomic Force Microscopy. Bulletin of the Korean Chemical Society, 2013, 34, 2245-2246.	1.0	0
26	Single Molecule Electronic Devices. Advanced Materials, 2011, 23, 1583-1608.	11.1	426
27	Single-Molecule Devices: Single Molecule Electronic Devices (Adv. Mater. 14/2011). Advanced Materials, 2011, 23, 1576-1576.	11.1	4
28	Conductance and Vibrational States of Single-Molecule Junctions Controlled by Mechanical Stretching and Material Variation. Physical Review Letters, 2011, 106, 196804.	2.9	116
29	Intrinsic charge transport of conjugated organic molecules in electromigrated nanogap junctions. Journal of Applied Physics, 2011, 109, 102419.	1.1	20
30	Noise Characteristics of Charge Tunneling via Localized States in Metal-Molecule-Metal Junctions. ACS Nano, 2010, 4, 4426-4430.	7.3	42
31	Coherent Tunneling Transport in Molecular Junctions. Journal of Physical Chemistry C, 2010, 114, 20431-20435.	1.5	63
32	Observation of orbital gate modulation in molecular junctions. , 2010, , .		1
33	STATISTICAL ANALYSIS OF ELECTRONIC TRANSPORT PROPERTIES OF ALKANETHIOL MOLECULAR JUNCTIONS. , 2010, , 121-150.		0
34	Vibrational spectra of metal-molecule-metal junctions in electromigrated nanogap electrodes by inelastic electron tunneling. Applied Physics Letters, 2009, 94, 103110.	1.5	38
35	Observation of molecular orbital gating. Nature, 2009, 462, 1039-1043.	13.7	712
36	An amphiphilic C60 penta-addition derivative as a new U-type molecular rectifier. Organic Electronics, 2009, 10, 85-94.	1.4	6

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37	Characterization of the tip-loading force-dependent tunneling behavior in alkanethiol metal-molecule-metal junctions by conducting atomic force microscopy. <i>Ultramicroscopy</i> , 2008, 108, 1196-1199.	0.8	9
38	Statistical representation of intrinsic electronic tunneling characteristics through alkyl self-assembled monolayers in nanowell device structures. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 904.	1.3	7
39	Shot Noise Suppression in SiGe Resonant Interband Tunneling Diodes. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8752-8755.	0.8	3
40	A statistical method for determining intrinsic electronic transport properties of self-assembled alkanethiol monolayer devices. <i>Applied Physics Letters</i> , 2007, 91, 253116.	1.5	20
41	Intermolecular Chain-to-Chain Tunneling in Metal-Alkanethiol-Metal Junctions. <i>Journal of the American Chemical Society</i> , 2007, 129, 3806-3807.	6.6	94
42	Charge Transport of Alkanethiol Self-Assembled Monolayers in Micro-Via Hole Devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3487-3490.	0.9	6
43	Electronic transport and tip-loading force effect in self-assembled monolayer studied by conducting atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 284-285, 583-588.	2.3	10
44	Molecular chain-to-chain tunneling and nanowell devices for electronic transport studies in metal-alkanethiol-metal junctions. , 2006, , .		0
45	Influence of bias-induced barrier height lowering on charge tunneling in large-area molecular junctions. <i>Journal of the Korean Physical Society</i> , 0, , .	0.3	0