Shintaro Fujii

List of Publications by Year
in descending order

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125	2,774	201385	214527
papers	citations	27 h-index	47 g-index

129	129	129	3262
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Asymmetry of Metallic Single-Atom Contacts Detected by Currentâ€“Voltage Characteristics. ACS Applied Materials & Interfaces, 2022, 14, 11919-11926.	4.0	4
2	Scanning probe microscopy study of functionalized nanographene. , 2022, 1, 79-88.		0
3	Single-molecule determination of chemical equilibrium of DNA intercalation by electrical conductance. Chemical Communications, 2021, 57, 4380-4383.	2.2	0
4	Electronic Structure and Transport Properties of Single-Molecule Junctions with Different Sizes of Ï€-Conjugated System. Journal of Physical Chemistry C, 2021, 125, 3472-3479.	1.5	6
5	Single-molecule Electric Switching Induced by Acid-Base Reaction. Chemistry Letters, 2021, 50, 1271-1273.	0.7	1
6	Organometallic Molecular Wires with Thioacetylene Backbones, transâ€{RSâ€(Câ‰¡C)_n}₂Ru(phosphine)₄: High Conductance through Nonâ€Aromatic Bridging Linkers. Chemistry - A European Journal, 2021, 27, 9666-9673.	3.7	4
7	Water Splitting Induced by Visible Light at a Copperâ€Based Singleâ€Molecule Junction. Small, 2021, 17, e2008109.	5.2	3
8	Water Splitting: Water Splitting Induced by Visible Light at a Copperâ€Based Singleâ€Molecule Junction (Small 28/2021). Small, 2021, 17, 2170143.	5.2	0
9	Single-molecule junction spontaneously restored by DNA zipper. Nature Communications, 2021, 12, 5762.	5.8	7
10	A single-molecule conductance study on the rotational isomers of a hexaarylbenzene derivative carrying dipolar rotating units. Japanese Journal of Applied Physics, 2021, 60, 108002.	0.8	0
11	Elementary processes of DNA surface hybridization resolved by single-molecule kinetics: implication for macroscopic device performance. Chemical Science, 2021, 12, 2217-2224.	3.7	5
12	Control of dominant conduction orbitals by peripheral substituents in paddle-wheel diruthenium alkynyl molecular junctions. Chemical Science, 2021, 12, 10871-10877.	3.7	9
13	Single-molecule junctions of multinuclear organometallic wires: long-range carrier transport brought about by metalâ€“metal interaction. Chemical Science, 2021, 12, 4338-4344.	3.7	21
14	Visualization of Thermal Transport Properties of Self-Assembled Monolayers on Au(111) by Contact and Noncontact Scanning Thermal Microscopy. Journal of the American Chemical Society, 2021, 143, 18777-18783.	6.6	4
15	Structure and Electron Transport at Metal Atomic Junctions Doped with Dichloroethylene. ChemPhysChem, 2020, 21, 175-180.	1.0	3
16	Single-Molecule Junction of a Cationic Rh(III) Polyyne Molecular Wire. Inorganic Chemistry, 2020, 59, 13254-13261.	1.9	11
17	The practical electromagnetic effect in surface-enhanced Raman scattering observed by the lithographically fabricated gold nanosquare dimers. AIP Advances, 2020, 10, .	0.6	10
18	Structure and Electron Transport at Metal Atomic Junctions Doped with Dichloroethylene. ChemPhysChem, 2020, 21, 274-274.	1.0	0

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19	Selective formation of molecular junctions with high and low conductance states by tuning the velocity of electrode displacement. Physical Chemistry Chemical Physics, 2020, 22, 4544-4548.	1.3	2
20	Hybrid Molecular Junctions Using Auâ€“S and Auâ^Ï€ Bindings. Journal of Physical Chemistry C, 2020, 124, 9261-9268.	1.5	7
21	Investigation of Ag and Cu Filament Formation Inside the Metal Sulfide Layer of an Atomic Switch Based on Point-Contact Spectroscopy. ACS Applied Materials & Interfaces, 2019, 11, 27178-27182.	4.0	9
22	Electric-Field-Controllable Conductance Switching of an Overcrowded Ethylene Self-Assembled Monolayer. Journal of the American Chemical Society, 2019, 141, 18544-18550.	6.6	17
23	Tuneable single-molecule electronic conductance of C₆₀by encapsulation. Physical Chemistry Chemical Physics, 2019, 21, 12606-12610.	1.3	14
24	Effect of Bias Voltage on a Single-Molecule Junction Investigated by Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2019, 123, 15267-15272.	1.5	6
25	Identifying the molecular adsorption site of a single molecule junction through combined Raman and conductance studies. Chemical Science, 2019, 10, 6261-6269.	3.7	32
26	Stretch dependent electronic structure and vibrational energy of the bipyridine single molecule junction. Physical Chemistry Chemical Physics, 2019, 21, 16910-16913.	1.3	7
27	Control of molecular orientation in a single-molecule junction with a tripodal triptycene anchoring unit: toward a simple and facile single-molecule diode. Japanese Journal of Applied Physics, 2019, 58, 035003.	0.8	8
28	Triptycene Tripods for the Formation of Highly Uniform and Densely Packed Self-Assembled Monolayers with Controlled Molecular Orientation. Journal of the American Chemical Society, 2019, 141, 5995-6005.	6.6	48
29	Investigation on the formation process of metal atomic filament for metal sulfide atomic switches by electrical measurement. Nanotechnology, 2019, 30, 125202.	1.3	6
30	Surface enhanced Raman scattering on molecule junction. Applied Materials Today, 2019, 14, 76-83.	2.3	10
31	Formation of a Chain-like Water Single Molecule Junction with Pd Electrodes. Journal of Physical Chemistry C, 2018, 122, 4698-4703.	1.5	4
32	Fluctuation in Interface and Electronic Structure of Single-Molecule Junctions Investigated by Current versus Bias Voltage Characteristics. Journal of the American Chemical Society, 2018, 140, 3760-3767.	6.6	42
33	Impact of junction formation processes on single molecular conductance. Physical Chemistry Chemical Physics, 2018, 20, 7947-7952.	1.3	11
34	Single-molecule junction of an overcrowded ethylene with binary conductance states. Japanese Journal of Applied Physics, 2018, 57, 03EG05.	0.8	6
35	Ruthenium Trisâ€bipyridine Singleâ€Molecule Junctions with Multiple Joint Configurations. Chemistry - an Asian Journal, 2018, 13, 1297-1301.	1.7	6
36	Single-molecule junctions of Ï€ molecules. Materials Chemistry Frontiers, 2018, 2, 214-218.	3.2	13

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37	Controlling stacking order and charge transport in Ï€-stacks of aromatic molecules based on surface assembly. Chemical Communications, 2018, 54, 12443-12446.	2.2	20
38	Dependence of Stretch Length on Electrical Conductance and Electronic Structure of the Benzenedithiol Single Molecular Junction. E-Journal of Surface Science and Nanotechnology, 2018, 16, 145-149.	0.1	2
39	â€œDopingâ€•of Polyyne with an Organometallic Fragment Leads to Highly Conductive Metallapolyyne Molecular Wire. Journal of the American Chemical Society, 2018, 140, 10080-10084.	6.6	78
40	Electronic Properties of Single Atom and Molecule Junctions. ChemElectroChem, 2018, 5, 2508-2517.	1.7	5
41	Electronic Properties of Singleâ€Atom and â€Molecule Junctions. ChemElectroChem, 2018, 5, 2507-2507.	1.7	0
42	Investigation on Single-Molecule Junctions Based on Currentâ€“Voltage Characteristics. Micromachines, 2018, 9, 67.	1.4	17
43	Photochemical Reaction Using Aminobenzenethiol Single Molecular Junction. E-Journal of Surface Science and Nanotechnology, 2018, 16, 137-141.	0.1	2
44	Atomic structure of water/Au, Ag, Cu and Pt atomic junctions. Physical Chemistry Chemical Physics, 2017, 19, 4673-4677.	1.3	8
45	Evaluation of the Electronic Structure of Singleâ€Molecule Junctions Based on Currentâ€“Voltage and Thermopower Measurements: Application to C₆₀ Singleâ€Molecule Junction. Chemistry - an Asian Journal, 2017, 12, 440-445.	1.7	19
46	Single Molecular Junction Study on H₂O@C₆₀: H₂O is â€œElectrostatically Isolatedâ€• ChemPhysChem, 2017, 18, 1229-1233.	1.0	14
47	Chemically induced topological zero mode at graphene armchair edges. Physical Chemistry Chemical Physics, 2017, 19, 5145-5154.	1.3	12
48	In situ observation of the formation process for free-standing Au nanowires with a scanning electron microscope. Nanotechnology, 2017, 28, 105707.	1.3	2
49	Statistical I â€“ V measurements of single-molecule junctions with an asymmetric anchoring group 1,4-aminobenzenethiol. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 025007.	0.7	4
50	Triphosphasumanene Trisulfide: High Out-of-Plane Anisotropy and Janus-Type Ï€-Surfaces. Journal of the American Chemical Society, 2017, 139, 5787-5792.	6.6	75
51	Controlling the formation process and atomic structures of single pyrazine molecular junction by tuning the strength of the metalâ€“molecule interaction. Physical Chemistry Chemical Physics, 2017, 19, 9843-9848.	1.3	10
52	Mechanical control of the plasmon coupling with Au nanoparticle arrays fixed on the elastomeric film via chemical bond. Japanese Journal of Applied Physics, 2017, 56, 035201.	0.8	6
53	Controlling the thermoelectric effect by mechanical manipulation of the electronâ€™s quantum phase in atomic junctions. Scientific Reports, 2017, 7, 7949.	1.6	12
54	Single-molecule conductance of DNA gated and ungated by DNA-binding molecules. Chemical Communications, 2017, 53, 10378-10381.	2.2	15

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55	Highly-conducting molecular circuits based on antiaromaticity. Nature Communications, 2017, 8, 15984.	5.8	111
56	Governing the Metalâ€“Molecule Interface: Towards New Functionality in Single-Molecule Junctions. Bulletin of the Chemical Society of Japan, 2017, 90, 1-11.	2.0	26
57	Gap width-independent spectra in 4-aminothiophenol surface enhanced Raman scattering stimulated in Au-gap array. Japanese Journal of Applied Physics, 2017, 56, 065202.	0.8	3
58	Surface-Enhanced Raman Scattering in Molecular Junctions. Sensors, 2017, 17, 1901.	2.1	10
59	Molecular Diode Studies Based on a Highly Sensitive Molecular Measurement Technique. Sensors, 2017, 17, 956.	2.1	14
60	Evaluation of the energy barrier for failure of Au atomic contact based on temperature dependent currentâ€“voltage characteristics. Physical Chemistry Chemical Physics, 2016, 18, 21586-21589.	1.3	4
61	Resolving metal-molecule interfaces at single-molecule junctions. Scientific Reports, 2016, 6, 26606.	1.6	55
62	Surface enhanced Raman scattering of single 1,4-Benzenedithiol molecular junction. International Journal of Modern Physics B, 2016, 30, 1642010.	1.0	2
63	Single Tripyridylâ€“Triazine Molecular Junction with Multiple Binding Sites. Journal of Physical Chemistry C, 2016, 120, 8936-8940.	1.5	14
64	Electrical Conductance of a Single 1,2-Ethanedithiol Molecular Junction Prepared in Ultrahigh Vacuum. Chemistry Letters, 2016, 45, 804-806.	0.7	0
65	Single-molecule junctions for molecular electronics. Journal of Materials Chemistry C, 2016, 4, 8842-8858.	2.7	88
66	Bowl Inversion and Electronic Switching of Buckybowls on Gold. Journal of the American Chemical Society, 2016, 138, 12142-12149.	6.6	44
67	Effect of Ag Ion Insertion on Electron Transport through Au Ion Wires. Chemistry Letters, 2016, 45, 764-766.	0.7	5
68	Data mining graphene: correlative analysis of structure and electronic degrees of freedom in graphenic monolayers with defects. Nanotechnology, 2016, 27, 495703.	1.3	18
69	Atomic and Electronic Structures of a Single Oxygen Molecular Junction with Au, Ag, and Cu Electrodes. Journal of Physical Chemistry C, 2016, 120, 16254-16258.	1.5	11
70	Determination of the number of atoms present in nano contact based on shot noise measurements with highly stable nano-fabricated electrodes. Nanotechnology, 2016, 27, 295203.	1.3	2
71	Characterization of the Single Molecular Junction. , 2016, , 61-85.		3
72	Scanning tunnelling microscopy analysis of octameric o-phenylenes on Au(111). RSC Advances, 2016, 6, 55970-55975.	1.7	1

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73	Organometallic molecular wires as versatile modules for energy-level alignment of the metalâ€“moleculeâ€“metal junction. Chemical Communications, 2016, 52, 5796-5799.	2.2	45
74	Effect of the Moleculeâ€“Metal Interface on the Surface-Enhanced Raman Scattering of 1,4-Benzenedithiol. Journal of Physical Chemistry C, 2016, 120, 1038-1042.	1.5	26
75	Site-Selection in Single-Molecule Junction for Highly Reproducible Molecular Electronics. Journal of the American Chemical Society, 2016, 138, 1294-1300.	6.6	88
76	Adsorption Site Recognition in Single Molecular Junctions Spectroscopy. Hyomen Kagaku, 2016, 37, 288-293.	0.0	0
77	Extension of Photopolymerization Region from the Nanoscale to the Macroscopic Scale Using a Chemically Amplified Photoresist. Bulletin of the Chemical Society of Japan, 2015, 88, 277-282.	2.0	0
78	Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. Chemistry - A European Journal, 2015, 21, 18900-18904.	1.7	46
79	Frontispiece: Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. Chemistry - A European Journal, 2015, 21, .	1.7	0
80	High electronic couplings of single mesitylene molecular junctions. Beilstein Journal of Nanotechnology, 2015, 6, 2431-2437.	1.5	10
81	Self-Assembly of Nanometer-Sized Boroxine Cages from Diboronic Acids. Journal of the American Chemical Society, 2015, 137, 7015-7018.	6.6	86
82	Electrical conductance and structure of copper atomic junctions in the presence of water molecules. Physical Chemistry Chemical Physics, 2015, 17, 32436-32442.	1.3	10
83	Temperature dependence of the thermopower and its variation of the Au atomic contact. Nanotechnology, 2015, 26, 045709.	1.3	4
84	Photochromic reaction of the diarylethene derivative on Au nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2015, 6, 015006.	0.7	1
85	Symmetry of Single Hydrogen Molecular Junction with Au, Ag, and Cu Electrodes. Journal of Physical Chemistry C, 2015, 119, 19143-19148.	1.5	25
86	Rectifying Electron-Transport Properties through Stacks of Aromatic Molecules Inserted into a Self-Assembled Cage. Journal of the American Chemical Society, 2015, 137, 5939-5947.	6.6	126
87	Single naphthalene and anthracene molecular junctions using Ag and Cu electrodes in ultra high vacuum. Applied Surface Science, 2015, 354, 362-366.	3.1	2
88	Highly conductive single naphthalene and anthracene molecular junction with well-defined conductance. Applied Physics Letters, 2015, 106, .	1.5	16
89	Effect of Mechanical Strain on Electric Conductance of Molecular Junctions. Journal of Physical Chemistry C, 2015, 119, 19452-19457.	1.5	11
90	Direct imaging of monovacancy-hydrogen complexes in a single graphitic layer. Physical Review B, 2014, 89, .	1.1	44

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91	Highly stable Au atomic contacts covered with benzenedithiol under ambient conditions. Physical Chemistry Chemical Physics, 2014, 16, 15662.	1.3	10
92	Role of edge geometry and chemistry in the electronic properties of graphene nanostructures. Faraday Discussions, 2014, 173, 173-199.	1.6	58
93	Fabrication of single linear aromatic molecular junction with high formation probability. Applied Physics Express, 2014, 7, 105201.	1.1	7
94	Additive Electron Pathway and Nonadditive Molecular Conductance by Using a Multipodal Bridging Compound. Journal of Physical Chemistry C, 2014, 118, 5275-5283.	1.5	17
95	Single Molecular Resistive Switch Obtained via Sliding Multiple Anchoring Points and Varying Effective Wire Length. Journal of the American Chemical Society, 2014, 136, 7327-7332.	6.6	101
96	Electronic State of Oxidized Nanographene Edge with Atomically Sharp Zigzag Boundaries. ACS Nano, 2013, 7, 6868-6874.	7.3	24
97	Single Molecular Bridging of Au Nanogap Using Aryl Halide Molecules. Journal of Physical Chemistry C, 2013, 117, 24277-24282.	1.5	27
98	Rearrangement of Ï€-Electron Network and Switching of Edge-Localized Ï€ State in Reduced Graphene Oxide. ACS Nano, 2013, 7, 11190-11199.	7.3	18
99	Nanographene and Graphene Edges: Electronic Structure and Nanofabrication. Accounts of Chemical Research, 2013, 46, 2202-2210.	7.6	134
100	Visualization of electronic states on atomically smooth graphitic edges with different types of hydrogen termination. Physical Review B, 2013, 87, .	1.1	41
101	Clarâ€™s Aromatic Sextet and Ï€â€Electron Distribution in Nanographene. Angewandte Chemie - International Edition, 2012, 51, 7236-7241.	7.2	34
102	Zigzag and armchair edges in graphene. Carbon, 2012, 50, 3141-3145.	5.4	119
103	Cutting of Oxidized Graphene into Nanosized Pieces. Journal of the American Chemical Society, 2010, 132, 10034-10041.	6.6	150
104	Reproducible Single-molecule Conductance Measurements of 1,4-Benzenedithiol with Break Junction Methods by Diluting It in a Thin Insulating Monolayer. Chemistry Letters, 2008, 37, 408-409.	0.7	5
105	Atomic contrast on a point defect on CaF2(111) imaged by non-contact atomic force microscopy. Nanotechnology, 2007, 18, 084011.	1.3	6
106	Accurate determination of multiple sets of single molecular conductance of Au/1,6-hexanedithiol/Au break junctions by ultra-high vacuum-scanning tunneling microscope and analyses of individual currentâ€“separation curves. Nanotechnology, 2007, 18, 424005.	1.3	25
107	Currents through single molecular junction of Au/hexanedithiolate/Au measured by repeated formation of break junction in STM under UHV: Effects of conformational change in an alkylene chain from gauche to trans and binding sites of thiolates on gold. Physical Chemistry Chemical Physics, 2006, 8, 3876.	1.3	76
108	Measurements of Currents through Single Molecules of Alkanedithiols by Repeated Formation of Break Junction in Scanning Tunneling Microscopy under Ultrahigh Vacuum. Japanese Journal of Applied Physics, 2006, 45, 2041-2044.	0.8	35

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109	Imaging Defects on CaF2(111) Surface with Frequency Modulation Atomic Force Microscopy. Japanese Journal of Applied Physics, 2006, 45, 1986-1991.	0.8	6
110	Effect of Moleculeâ€“Electrode Contacts on Single-Molecule Conductivity of Ï€-Conjugated System Measured by Scanning Tunneling Microscopy under Ultrahigh Vacuum. Japanese Journal of Applied Physics, 2006, 45, 2037-2040.	0.8	21
111	Length Dependence of Tunneling Current Through Single Phenylene Oligomers Measured by Scanning Tunneling Microscopy at Low Temperature. Japanese Journal of Applied Physics, 2006, 45, 2736-2742.	0.8	10
112	Differentiation of molecules in a mixed self-assembled monolayer of H-and Cl-terminated bicyclo[2.2.2]octane derivatives. Nanotechnology, 2006, 17, S112-S120.	1.3	12
113	Self-assembled nanostructure of Au nanoparticles on a self-assembled monolayer. Ultramicroscopy, 2005, 105, 26-31.	0.8	16
114	Electronic Conduction through Single Molecule of New Ï€-Conjugated System Measured by Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 2005, 44, 5382-5385.	0.8	8
115	The dynamic behaviour of a single molecule inserted in a self-assembled monolayer matrix at low temperature. Nanotechnology, 2004, 15, S137-S141.	1.3	12
116	Noncontact atomic force microscopy of a mixed self-assembled monolayer of thiolates with an H- or a Cl-terminated bicyclo[2.2.2]octane moiety on Au(111). Nanotechnology, 2004, 15, S19-S23.	1.3	8
117	Molecular dynamics simulation of non-contact atomic force microscopy of self-assembled monolayers on Au(111). Nanotechnology, 2004, 15, 710-715.	1.3	21
118	Self-assembly of thiolates with alicyclic moieties on Au(111). Nanotechnology, 2004, 15, S150-S153.	1.3	16
119	A self-assembled monolayer of a disulfide with a pair of bicyclo[2.2.2]octane moieties on Au(1 1 1) investigated by non-contact atomic force microscopy. Applied Surface Science, 2003, 210, 79-83.	3.1	5
120	Dependence of tunneling current through a single molecule of phenylene oligomers on the molecular length. Ultramicroscopy, 2003, 97, 19-26.	0.8	31
121	Tunneling Currents through a Single Molecule Isolated in a New Matrix. AIP Conference Proceedings, 2003, , .	0.3	0
122	Motions of single molecules inserted in a self-assembled monolayer matrix of a bicyclo[2.2.2]octane derivative on Au(111). Nanotechnology, 2003, 14, 258-263.	1.3	19
123	Geometry for Self-Assembling of Spherical Hydrocarbon Cages with Methane Thiolates on Au(111). Journal of the American Chemical Society, 2002, 124, 13629-13635.	6.6	53
124	Novel self-assembled monolayers of disulfides with bicyclo[2.2.2]octane moieties on Au(111). Chemical Communications, 2001, , 1688-1689.	2.2	23
125	An Allyltitanium Derived from Acrolein 1,2-Dicyclohexylethylene Acetal and (Î·2-propene)Ti(O-i-Pr)2as a Chiral Propionaldehyde Homoenolate Equivalent that Reacts with Imines with Excellent Stereoselectivity. An Efficient and Practical Access to Optically Active Î³-Amino Carbonyl Compounds. Journal of the American Chemical Society, 2001, 123, 3462-3471.	6.6	37