Shintaro Fujii

List of Publications by Year
in descending order

125 papers	2,774 citations	201385 27 h-index	214527 47 g-index
129 all docs	129 docs citations	129 times ranked	3262 citing authors

#	Article	IF	Citations
1	Cutting of Oxidized Graphene into Nanosized Pieces. Journal of the American Chemical Society, 2010, 132, 10034-10041.	6.6	150
2	Nanographene and Graphene Edges: Electronic Structure and Nanofabrication. Accounts of Chemical Research, 2013, 46, 2202-2210.	7.6	134
3	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
4	Zigzag and armchair edges in graphene. Carbon, 2012, 50, 3141-3145.	5.4	119
5	Highly-conducting molecular circuits based on antiaromaticity. Nature Communications, 2017, 8, 15984.	5.8	111
6	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
7	Single-molecule junctions for molecular electronics. Journal of Materials Chemistry C, 2016, 4, 8842-8858.	2.7	88
8	Site-Selection in Single-Molecule Junction for Highly Reproducible Molecular Electronics. Journal of the American Chemical Society, 2016, 138, 1294-1300.	6.6	88
9	Self-Assembly of Nanometer-Sized Boroxine Cages from Diboronic Acids. Journal of the American Chemical Society, 2015, 137, 7015-7018.	6.6	86
10	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
11	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
12	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
13	Role of edge geometry and chemistry in the electronic properties of graphene nanostructures. Faraday Discussions, 2014, 173, 173-199.	1.6	58
14	Resolving metal-molecule interfaces at single-molecule junctions. Scientific Reports, 2016, 6, 26606.	1.6	55
15	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
16	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
17	Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. Chemistry - A European Journal, 2015, 21, 18900-18904.	1.7	46
18	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

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19	Direct imaging of monovacancy-hydrogen complexes in a single graphitic layer. Physical Review B, 2014, 89, .	1.1	44
20	Bowl Inversion and Electronic Switching of Buckybowls on Gold. Journal of the American Chemical Society, 2016, 138, 12142-12149.	6.6	44
21	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
22	Visualization of electronic states on atomically smooth graphitic edges with different types of hydrogen termination. Physical Review B, 2013, 87, .	1.1	41
23	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 Î²-Amino Carbonyl Compounds. Journal of the American Chemical Society, 2001, 123, 3462-3471.	6.6	37
24	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
25	Clarâ€™s Aromatic Sextet and Ï€â€Electron Distribution in Nanographene. Angewandte Chemie - International Edition, 2012, 51, 7236-7241.	7.2	34
26	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
27	Dependence of tunneling current through a single molecule of phenylene oligomers on the molecular length. Ultramicroscopy, 2003, 97, 19-26.	0.8	31
28	Single Molecular Bridging of Au Nanogap Using Aryl Halide Molecules. Journal of Physical Chemistry C, 2013, 117, 24277-24282.	1.5	27
29	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
30	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
31	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
32	Symmetry of Single Hydrogen Molecular Junction with Au, Ag, and Cu Electrodes. Journal of Physical Chemistry C, 2015, 119, 19143-19148.	1.5	25
33	Electronic State of Oxidized Nanographene Edge with Atomically Sharp Zigzag Boundaries. ACS Nano, 2013, 7, 6868-6874.	7.3	24
34	Novel self-assembled monolayers of disulfides with bicyclo[2.2.2]octane moieties on Au(111). Chemical Communications, 2001, , 1688-1689.	2.2	23
35	Molecular dynamics simulation of non-contact atomic force microscopy of self-assembled monolayers on Au(111). Nanotechnology, 2004, 15, 710-715.	1.3	21
36	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

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37	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
38	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
39	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
40	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
41	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
42	Data mining graphene: correlative analysis of structure and electronic degrees of freedom in graphenic monolayers with defects. Nanotechnology, 2016, 27, 495703.	1.3	18
43	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
44	Investigation on Single-Molecule Junctions Based on Currentâ€“Voltage Characteristics. Micromachines, 2018, 9, 67.	1.4	17
45	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
46	Self-assembly of thiolates with alicyclic moieties on Au(111). Nanotechnology, 2004, 15, S150-S153.	1.3	16
47	Self-assembled nanostructure of Au nanoparticles on a self-assembled monolayer. Ultramicroscopy, 2005, 105, 26-31.	0.8	16
48	Highly conductive single naphthalene and anthracene molecular junction with well-defined conductance. Applied Physics Letters, 2015, 106, .	1.5	16
49	Single-molecule conductance of DNA gated and ungated by DNA-binding molecules. Chemical Communications, 2017, 53, 10378-10381.	2.2	15
50	Single Tripyridylâ€“Triazine Molecular Junction with Multiple Binding Sites. Journal of Physical Chemistry C, 2016, 120, 8936-8940.	1.5	14
51	Single Molecular Junction Study on H₂O@C₆₀: H₂O is â€œElectrostatically Isolatedâ€ ChemPhysChem, 2017, 18, 1229-1233.	1.0	14
52	Molecular Diode Studies Based on a Highly Sensitive Molecular Measurement Technique. Sensors, 2017, 17, 956.	2.1	14
53	Tuneable single-molecule electronic conductance of C₆₀by encapsulation. Physical Chemistry Chemical Physics, 2019, 21, 12606-12610.	1.3	14
54	Single-molecule junctions of Ï€ molecules. Materials Chemistry Frontiers, 2018, 2, 214-218.	3.2	13

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55	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
56	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
57	Chemically induced topological zero mode at graphene armchair edges. Physical Chemistry Chemical Physics, 2017, 19, 5145-5154.	1.3	12
58	Controlling the thermoelectric effect by mechanical manipulation of the electronâ€™s quantum phase in atomic junctions. Scientific Reports, 2017, 7, 7949.	1.6	12
59	Effect of Mechanical Strain on Electric Conductance of Molecular Junctions. Journal of Physical Chemistry C, 2015, 119, 19452-19457.	1.5	11
60	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
61	Impact of junction formation processes on single molecular conductance. Physical Chemistry Chemical Physics, 2018, 20, 7947-7952.	1.3	11
62	Single-Molecule Junction of a Cationic Rh(III) Polyyne Molecular Wire. Inorganic Chemistry, 2020, 59, 13254-13261.	1.9	11
63	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
64	Highly stable Au atomic contacts covered with benzenedithiol under ambient conditions. Physical Chemistry Chemical Physics, 2014, 16, 15662.	1.3	10
65	High electronic couplings of single mesitylene molecular junctions. Beilstein Journal of Nanotechnology, 2015, 6, 2431-2437.	1.5	10
66	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
67	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
68	Surface-Enhanced Raman Scattering in Molecular Junctions. Sensors, 2017, 17, 1901.	2.1	10
69	Surface enhanced Raman scattering on molecule junction. Applied Materials Today, 2019, 14, 76-83.	2.3	10
70	The practical electromagnetic effect in surface-enhanced Raman scattering observed by the lithographically fabricated gold nanosquare dimers. AIP Advances, 2020, 10, .	0.6	10
71	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
72	Control of dominant conduction orbitals by peripheral substituents in paddle-wheel diruthenium alkynyl molecular junctions. Chemical Science, 2021, 12, 10871-10877.	3.7	9

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73	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
74	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
75	Atomic structure of water/Au, Ag, Cu and Pt atomic junctions. Physical Chemistry Chemical Physics, 2017, 19, 4673-4677.	1.3	8
76	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
77	Fabrication of single linear aromatic molecular junction with high formation probability. Applied Physics Express, 2014, 7, 105201.	1.1	7
78	Stretch dependent electronic structure and vibrational energy of the bipyridine single molecule junction. Physical Chemistry Chemical Physics, 2019, 21, 16910-16913.	1.3	7
79	Hybrid Molecular Junctions Using Auâ€“S and Auâˆ'Ï€ Bindings. Journal of Physical Chemistry C, 2020, 124, 9261-9268.	1.5	7
80	Single-molecule junction spontaneously restored by DNA zipper. Nature Communications, 2021, 12, 5762.	5.8	7
81	Imaging Defects on CaF2(111) Surface with Frequency Modulation Atomic Force Microscopy. Japanese Journal of Applied Physics, 2006, 45, 1986-1991.	0.8	6
82	Atomic contrast on a point defect on CaF2(111) imaged by non-contact atomic force microscopy. Nanotechnology, 2007, 18, 084011.	1.3	6
83	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
84	Single-molecule junction of an overcrowded ethylene with binary conductance states. Japanese Journal of Applied Physics, 2018, 57, 03EG05.	0.8	6
85	Ruthenium Trisâ€bipyridine Singleâ€Molecule Junctions with Multiple Joint Configurations. Chemistry - an Asian Journal, 2018, 13, 1297-1301.	1.7	6
86	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
87	Investigation on the formation process of metal atomic filament for metal sulfide atomic switches by electrical measurement. Nanotechnology, 2019, 30, 125202.	1.3	6
88	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
89	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
90	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

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91	Effect of Ag Ion Insertion on Electron Transport through Au Ion Wires. Chemistry Letters, 2016, 45, 764-766.	0.7	5
92	Electronic Properties of Single Atom and Molecule Junctions. ChemElectroChem, 2018, 5, 2508-2517.	1.7	5
93	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
94	Temperature dependence of the thermopower and its variation of the Au atomic contact. Nanotechnology, 2015, 26, 045709.	1.3	4
95	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
96	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
97	Formation of a Chain-like Water Single Molecule Junction with Pd Electrodes. Journal of Physical Chemistry C, 2018, 122, 4698-4703.	1.5	4
98	Organometallic Molecular Wires with Thioacetylene Backbones, <i>trans</i>â€{RSâ€(Câ‰¡C)_{<i>n</i>}}₂Ru(phosphine)₄: High Conductance through Nonâ€Aromatic Bridging Linkers. Chemistry - A European Journal, 2021, 27, 9666-9673.	1.7	4
99	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
100	Structural Asymmetry of Metallic Single-Atom Contacts Detected by Currentâ€"Voltage Characteristics. ACS Applied Materials & Interfaces, 2022, 14, 11919-11926.	4.0	4
101	Characterization of the Single Molecular Junction. , 2016, , 61-85.		3
102	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
103	Structure and Electron Transport at Metal Atomic Junctions Doped with Dichloroethylene. ChemPhysChem, 2020, 21, 175-180.	1.0	3
104	Water Splitting Induced by Visible Light at a Copperâ€Based Singleâ€Molecule Junction. Small, 2021, 17, e2008109.	5.2	3
105	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
106	Surface enhanced Raman scattering of single 1,4-Benzenedithiol molecular junction. International Journal of Modern Physics B, 2016, 30, 1642010.	1.0	2
107	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
108	<i>In situ</i> observation of the formation process for free-standing Au nanowires with a scanning electron microscope. Nanotechnology, 2017, 28, 105707.	1.3	2

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109	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
110	Photochemical Reaction Using Aminobenzenethiol Single Molecular Junction. E-Journal of Surface Science and Nanotechnology, 2018, 16, 137-141.	0.1	2
111	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
112	Photochromic reaction of the diarylethene derivative on Au nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2015, 6, 015006.	0.7	1
113	Scanning tunnelling microscopy analysis of octameric o-phenylenes on Au(111). RSC Advances, 2016, 6, 55970-55975.	1.7	1
114	Single-molecule Electric Switching Induced by Acid-Base Reaction. Chemistry Letters, 2021, 50, 1271-1273.	0.7	1
115	Tunneling Currents through a Single Molecule Isolated in a New Matrix. AIP Conference Proceedings, 2003, , .	0.3	0
116	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
117	Frontispiece: Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. Chemistry - A European Journal, 2015, 21, .	1.7	0
118	Electrical Conductance of a Single 1,2-Ethanedithiol Molecular Junction Prepared in Ultrahigh Vacuum. Chemistry Letters, 2016, 45, 804-806.	0.7	0
119	Electronic Properties of Singleâ€Atom and â€Molecule Junctions. ChemElectroChem, 2018, 5, 2507-2507.	1.7	0
120	Structure and Electron Transport at Metal Atomic Junctions Doped with Dichloroethylene. ChemPhysChem, 2020, 21, 274-274.	1.0	0
121	Single-molecule determination of chemical equilibrium of DNA intercalation by electrical conductance. Chemical Communications, 2021, 57, 4380-4383.	2.2	0
122	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
123	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
124	Adsorption Site Recognition in Single Molecular Junctions Spectroscopy. Hyomen Kagaku, 2016, 37, 288-293.	0.0	0
125	Scanning probe microscopy study of functionalized nanographene. , 2022, 1, 79-88.		0