

# Manabu Kiguchi

## List of Publications by Year in descending order

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220  
papers

5,595  
citations

66343

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114465

63  
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227  
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227  
docs citations

227  
times ranked

4971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Principal Component Analysis of Surface-Enhanced Raman Scattering Spectra Revealing Isomer-Dependent Electron Transport in Spiropyran Molecular Junctions: Implications for Nanoscale Molecular Electronics. ACS Omega, 2022, 7, 5578-5583.	3.5	15
2	Structural Asymmetry of Metallic Single-Atom Contacts Detected by Current-Voltage Characteristics. ACS Applied Materials & Interfaces, 2022, 14, 11919-11926.	8.0	4
3	Single-molecule determination of chemical equilibrium of DNA intercalation by electrical conductance. Chemical Communications, 2021, 57, 4380-4383.	4.1	0
4	Single-molecule Electric Switching Induced by Acid-Base Reaction. Chemistry Letters, 2021, 50, 1271-1273.	1.3	1
5	Water Splitting Induced by Visible Light at a Copper-Based Single-Molecule Junction. Small, 2021, 17, e2008109.	10.0	3
6	Water Splitting: Water Splitting Induced by Visible Light at a Copper-Based Single-Molecule Junction (Small 28/2021). Small, 2021, 17, 2170143.	10.0	0
7	Single-molecule junction spontaneously restored by DNA zipper. Nature Communications, 2021, 12, 5762.	12.8	7
8	Elementary processes of DNA surface hybridization resolved by single-molecule kinetics: implication for macroscopic device performance. Chemical Science, 2021, 12, 2217-2224.	7.4	5
9	Single-molecule junctions of multinuclear organometallic wires: long-range carrier transport brought about by metal-metal interaction. Chemical Science, 2021, 12, 4338-4344.	7.4	21
10	Anomalous spin relaxation in graphene nanostructures on the high temperature annealed surface of hydrogenated diamond nanoparticles. Physical Chemistry Chemical Physics, 2021, 23, 19209-19218.	2.8	0
11	Kinetic investigation of a chemical process in single-molecule junction. Chemical Communications, 2020, 56, 309-312.	4.1	11
12	Structure and Electron Transport at Metal Atomic Junctions Doped with Dichloroethylene. ChemPhysChem, 2020, 21, 175-180.	2.1	3
13	Single-Molecule Junction of a Cationic Rh(III) Polyyne Molecular Wire. Inorganic Chemistry, 2020, 59, 13254-13261.	4.0	11
14	Effects of water adsorption on conductive filaments of a Ta2O5 atomic switch investigated by nondestructive electrical measurements. Applied Physics Letters, 2020, 117, .	3.3	1
15	The practical electromagnetic effect in surface-enhanced Raman scattering observed by the lithographically fabricated gold nanosquare dimers. AIP Advances, 2020, 10, .	1.3	10
16	Tolerance to Stretching in Thiol-Terminated Single-Molecule Junctions Characterized by Surface-Enhanced Raman Scattering. Journal of Physical Chemistry Letters, 2020, 11, 6712-6717.	4.6	15
17	Structure and Electron Transport at Metal Atomic Junctions Doped with Dichloroethylene. ChemPhysChem, 2020, 21, 274-274.	2.1	0
18	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.	2.8	2

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19	Hybrid Molecular Junctions Using Au-S and Au-Te Bindings. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9261-9268.	3.1	7
20	Investigation of Ag and Cu Filament Formation Inside the Metal Sulfide Layer of an Atomic Switch Based on Point-Contact Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27178-27182.	8.0	9
21	Electric-Field-Controllable Conductance Switching of an Overcrowded Ethylene Self-Assembled Monolayer. <i>Journal of the American Chemical Society</i> , 2019, 141, 18544-18550.	13.7	17
22	Tuneable single-molecule electronic conductance of C <sub>60</sub> by encapsulation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12606-12610.	2.8	14
23	Effect of Bias Voltage on a Single-Molecule Junction Investigated by Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15267-15272.	3.1	6
24	Identifying the molecular adsorption site of a single molecule junction through combined Raman and conductance studies. <i>Chemical Science</i> , 2019, 10, 6261-6269.	7.4	32
25	Stretch dependent electronic structure and vibrational energy of the bipyridine single molecule junction. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16910-16913.	2.8	7
26	Control of molecular orientation in a single-molecule junction with a tripodal triptycene anchoring unit: toward a simple and facile single-molecule diode. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 035003.	1.5	8
27	Highly Reproducible Formation of a Polymer Single-Molecule Junction for a Well-Defined Current Signal. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9109-9113.	13.8	8
28	Highly Reproducible Formation of a Polymer Single-Molecule Junction for a Well-Defined Current Signal. <i>Angewandte Chemie</i> , 2019, 131, 9207-9211.	2.0	0
29	Bias Voltage Induced Surface-Enhanced Raman Scattering Enhancement on the Single-Molecule Junction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6502-6507.	3.1	11
30	Triptycene Tripods for the Formation of Highly Uniform and Densely Packed Self-Assembled Monolayers with Controlled Molecular Orientation. <i>Journal of the American Chemical Society</i> , 2019, 141, 5995-6005.	13.7	48
31	Near-infrared-light-induced decomposition of Rhodamine B triggered by localized surface plasmon at gold square dimers with well-defined separation distance. <i>AIP Advances</i> , 2019, 9, .	1.3	1
32	Investigation on the formation process of metal atomic filament for metal sulfide atomic switches by electrical measurement. <i>Nanotechnology</i> , 2019, 30, 125202.	2.6	6
33	Surface enhanced Raman scattering on molecule junction. <i>Applied Materials Today</i> , 2019, 14, 76-83.	4.3	10
34	Formation of a Chain-like Water Single Molecule Junction with Pd Electrodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4698-4703.	3.1	4
35	Fluctuation in Interface and Electronic Structure of Single-Molecule Junctions Investigated by Current versus Bias Voltage Characteristics. <i>Journal of the American Chemical Society</i> , 2018, 140, 3760-3767.	13.7	42
36	Impact of junction formation processes on single molecular conductance. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7947-7952.	2.8	11

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37	Single-molecule junction of an overcrowded ethylene with binary conductance states. Japanese Journal of Applied Physics, 2018, 57, 03EG05.	1.5	6
38	Ruthenium Tris(2,2'-bipyridine) Single-Molecule Junctions with Multiple Joint Configurations. Chemistry - an Asian Journal, 2018, 13, 1297-1301.	3.3	6
39	Magnetism of Nanographene-Based Microporous Carbon and Its Applications: Interplay of Edge Geometry and Chemistry Details in the Edge State. Physical Review Applied, 2018, 9, .	3.8	9
40	Single-molecule junctions of $\pi$ molecules. Materials Chemistry Frontiers, 2018, 2, 214-218.	5.9	13
41	Studies on single-molecule bridging metal electrodes: development of new characterization technique and functionalities. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2018, 94, 350-359.	3.8	4
42	Controlling stacking order and charge transport in $\pi$ -stacks of aromatic molecules based on surface assembly. Chemical Communications, 2018, 54, 12443-12446.	4.1	20
43	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.	0.4	2
44	Measurement of Electron Transfer within a Single Supramolecular Assembly Containing a Biological Molecule. Analytical Sciences, 2018, 34, 521-523.	1.6	1
45	"Doping" of Polyyne with an Organometallic Fragment Leads to Highly Conductive Metallapolyyne Molecular Wire. Journal of the American Chemical Society, 2018, 140, 10080-10084.	13.7	78
46	Electronic Properties of Single Atom and Molecule Junctions. ChemElectroChem, 2018, 5, 2508-2517.	3.4	5
47	Electronic Properties of Single-Atom and -Molecule Junctions. ChemElectroChem, 2018, 5, 2507-2507.	3.4	0
48	Evaluation of the Kinetic Property of Single-Molecule Junctions by Tunneling Current Measurements. Analytical Sciences, 2018, 34, 639-641.	1.6	2
49	Investigation on Single-Molecule Junctions Based on Current-Voltage Characteristics. Micromachines, 2018, 9, 67.	2.9	17
50	Photochemical Reaction Using Aminobenzenethiol Single Molecular Junction. E-Journal of Surface Science and Nanotechnology, 2018, 16, 137-141.	0.4	2
51	Atomic structure of water/Au, Ag, Cu and Pt atomic junctions. Physical Chemistry Chemical Physics, 2017, 19, 4673-4677.	2.8	8
52	Evaluation of the Electronic Structure of Single-Molecule Junctions Based on Current-Voltage and Thermopower Measurements: Application to $C_{60}$ Single-Molecule Junction. Chemistry - an Asian Journal, 2017, 12, 440-445.	3.3	19
53	Single Molecular Junction Study on $H_2O@C_{60}$ : $H_2O$ is "Electrostatically Isolated". ChemPhysChem, 2017, 18, 1229-1233.	2.1	14
54	Inorganic and Organometallic Molecular Wires for Single-Molecule Devices. Chemistry - A European Journal, 2017, 23, 4740-4740.	3.3	1

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55	Chemically induced topological zero mode at graphene armchair edges. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5145-5154.	2.8	12
56	<i>In situ</i> observation of the formation process for free-standing Au nanowires with a scanning electron microscope. <i>Nanotechnology</i> , 2017, 28, 105707.	2.6	2
57	Specific single-molecule detection of glucose in a supramolecularly designed tunnel junction. <i>Chemical Communications</i> , 2017, 53, 5212-5215.	4.1	10
58	Frontispiece: Inorganic and Organometallic Molecular Wires for Single-Molecule Devices. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
59	Triphosphasumanene Trisulfide: High Out-of-Plane Anisotropy and Janus-Type $\pi$ -Surfaces. <i>Journal of the American Chemical Society</i> , 2017, 139, 5787-5792.	13.7	75
60	Controlling the formation process and atomic structures of single pyrazine molecular junction by tuning the strength of the metal-molecule interaction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9843-9848.	2.8	10
61	Inorganic and Organometallic Molecular Wires for Single-Molecule Devices. <i>Chemistry - A European Journal</i> , 2017, 23, 4741-4749.	3.3	65
62	Controlling the thermoelectric effect by mechanical manipulation of the electron's quantum phase in atomic junctions. <i>Scientific Reports</i> , 2017, 7, 7949.	3.3	12
63	Single-molecule conductance of DNA gated and ungated by DNA-binding molecules. <i>Chemical Communications</i> , 2017, 53, 10378-10381.	4.1	15
64	Highly-conducting molecular circuits based on antiaromaticity. <i>Nature Communications</i> , 2017, 8, 15984.	12.8	111
65	Governing the Metal-Molecule Interface: Towards New Functionality in Single-Molecule Junctions. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1-11.	3.2	26
66	Surface-Enhanced Raman Scattering in Molecular Junctions. <i>Sensors</i> , 2017, 17, 1901.	3.8	10
67	Molecular Diode Studies Based on a Highly Sensitive Molecular Measurement Technique. <i>Sensors</i> , 2017, 17, 956.	3.8	14
68	Evaluation of the energy barrier for failure of Au atomic contact based on temperature dependent current-voltage characteristics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21586-21589.	2.8	4
69	Resolving metal-molecule interfaces at single-molecule junctions. <i>Scientific Reports</i> , 2016, 6, 26606.	3.3	55
70	Surface enhanced Raman scattering of single 1,4-Benzenedithiol molecular junction. <i>International Journal of Modern Physics B</i> , 2016, 30, 1642010.	2.0	2
71	Single Tripyridyl-Triazine Molecular Junction with Multiple Binding Sites. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8936-8940.	3.1	14
72	Electrical Conductance of a Single 1,2-Ethanedithiol Molecular Junction Prepared in Ultrahigh Vacuum. <i>Chemistry Letters</i> , 2016, 45, 804-806.	1.3	0

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73	Single-molecule junctions for molecular electronics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8842-8858.	5.5	88
74	Bowl Inversion and Electronic Switching of Buckybowls on Gold. <i>Journal of the American Chemical Society</i> , 2016, 138, 12142-12149.	13.7	44
75	Effect of Ag Ion Insertion on Electron Transport through Au Ion Wires. <i>Chemistry Letters</i> , 2016, 45, 764-766.	1.3	5
76	Data mining graphene: correlative analysis of structure and electronic degrees of freedom in graphenic monolayers with defects. <i>Nanotechnology</i> , 2016, 27, 495703.	2.6	18
77	Atomic and Electronic Structures of a Single Oxygen Molecular Junction with Au, Ag, and Cu Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16254-16258.	3.1	11
78	Determination of the number of atoms present in nano contact based on shot noise measurements with highly stable nano-fabricated electrodes. <i>Nanotechnology</i> , 2016, 27, 295203.	2.6	2
79	Scanning tunnelling microscopy analysis of octameric o-phenylenes on Au(111). <i>RSC Advances</i> , 2016, 6, 55970-55975.	3.6	1
80	Organometallic molecular wires as versatile modules for energy-level alignment of the metal-molecule-metal junction. <i>Chemical Communications</i> , 2016, 52, 5796-5799.	4.1	45
81	Effect of the Molecule-Metal Interface on the Surface-Enhanced Raman Scattering of 1,4-Benzenedithiol. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1038-1042.	3.1	26
82	Site-Selection in Single-Molecule Junction for Highly Reproducible Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2016, 138, 1294-1300.	13.7	88
83	Extension of Photopolymerization Region from the Nanoscale to the Macroscopic Scale Using a Chemically Amplified Photoresist. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 277-282.	3.2	0
84	Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. <i>Chemistry - A European Journal</i> , 2015, 21, 18900-18904.	3.3	46
85	Frontispiece: Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. <i>Chemistry - A European Journal</i> , 2015, 21, .	3.3	0
86	High electronic couplings of single mesitylene molecular junctions. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2431-2437.	2.8	10
87	Self-Assembly of Nanometer-Sized Boroxine Cages from Diboronic Acids. <i>Journal of the American Chemical Society</i> , 2015, 137, 7015-7018.	13.7	86
88	Surface enhanced Raman scattering of a single molecular junction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21254-21260.	2.8	18
89	Electrical conductance and structure of copper atomic junctions in the presence of water molecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32436-32442.	2.8	10
90	Formation of Single Cu Atomic Chain in Nitrogen Atmosphere. <i>Journal of Physical Chemistry C</i> , 2015, 119, 862-866.	3.1	14

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91	Symmetry of Single Hydrogen Molecular Junction with Au, Ag, and Cu Electrodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19143-19148.	3.1	25
92	Rectifying Electron-Transport Properties through Stacks of Aromatic Molecules Inserted into a Self-Assembled Cage. <i>Journal of the American Chemical Society</i> , 2015, 137, 5939-5947.	13.7	126
93	Single naphthalene and anthracene molecular junctions using Ag and Cu electrodes in ultra high vacuum. <i>Applied Surface Science</i> , 2015, 354, 362-366.	6.1	2
94	Highly conductive single naphthalene and anthracene molecular junction with well-defined conductance. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	16
95	Effect of Mechanical Strain on Electric Conductance of Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19452-19457.	3.1	11
96	Surface enhanced Raman scattering of molecules in metallic nanogaps. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 023001.	2.2	20
97	Direct imaging of monovacancy-hydrogen complexes in a single graphitic layer. <i>Physical Review B</i> , 2014, 89, .	3.2	44
98	Investigation on the Pyrazine Molecular Junction Studied by Conductance Measurement and Near Edge X-ray Absorption Fine Structure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 166-172.	2.1	2
99	Highly stable Au atomic contacts covered with benzenedithiol under ambient conditions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15662.	2.8	10
100	Preferential oxidation-induced etching of zigzag edges in nanographene. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21363-21371.	2.8	3
101	Heat treatment effect on the electronic and magnetic structures of nanographene sheets investigated through electron spectroscopy and conductance measurements. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7280-7289.	2.8	12
102	Anomalous metallic-like transport of Co/Pd ferromagnetic nanoparticles cross-linked with $\pi$ -conjugated molecules having a rotational degree of freedom. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 288-296.	2.8	6
103	Magnetic edge-states in nanographene, HNO <sub>3</sub> -doped nanographene and its residue compounds of nanographene-based nanoporous carbon. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6273-6282.	2.8	6
104	Role of edge geometry and chemistry in the electronic properties of graphene nanostructures. <i>Faraday Discussions</i> , 2014, 173, 173-199.	3.2	58
105	Fabrication of single linear aromatic molecular junction with high formation probability. <i>Applied Physics Express</i> , 2014, 7, 105201.	2.4	7
106	Electron Transport Properties of Au, Ag, and Cu Atomic Contacts in a Hydrogen Environment. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7489-7493.	3.1	25
107	Additive Electron Pathway and Nonadditive Molecular Conductance by Using a Multipodal Bridging Compound. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5275-5283.	3.1	17
108	Single Molecular Resistive Switch Obtained via Sliding Multiple Anchoring Points and Varying Effective Wire Length. <i>Journal of the American Chemical Society</i> , 2014, 136, 7327-7332.	13.7	101

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109	Synthesis of One-Dimensional Metal-Containing Insulated Molecular Wire with Versatile Properties Directed toward Molecular Electronics Materials. <i>Journal of the American Chemical Society</i> , 2014, 136, 1742-1745.	13.7	77
110	Development of edge state on graphite surface induced by Ar <sup>+</sup> irradiation studied using near-edge X-ray absorption fine structure spectroscopy. <i>Carbon</i> , 2014, 72, 152-159.	10.3	3
111	Molecular Wiring Method Based on Polymerization or Copolymerization of an Insulated $\pi$ -Conjugated Monomer. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 871-873.	3.2	9
112	Metal atomic contacts under defined environmental conditions. <i>Transactions of the Materials Research Society of Japan</i> , 2014, 39, 225-229.	0.2	0
113	Electronic State of Oxidized Nanographene Edge with Atomically Sharp Zigzag Boundaries. <i>ACS Nano</i> , 2013, 7, 6868-6874.	14.6	24
114	Single Molecular Bridging of Au Nanogap Using Aryl Halide Molecules. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24277-24282.	3.1	27
115	Self-Aligned Formation of Sub 1 nm Gaps Utilizing Electromigration during Metal Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12869-12875.	8.0	23
116	Single molecule bridging between metal electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2253-2267.	2.8	96
117	Molecular rectification in triangularly shaped graphene nanoribbons. <i>Journal of Computational Chemistry</i> , 2013, 34, 360-365.	3.3	19
118	Formation of crosslinked-fullerene-like framework as negative replica of zeolite Y. <i>Carbon</i> , 2013, 62, 455-464.	10.3	66
119	Electronic Conductance of Platinum Atomic Contact in a Nitrogen Atmosphere. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9903-9907.	3.1	12
120	Highly Conductive [3Å- $\langle i \rangle n \langle /i \rangle$ ] Gold- $\langle i \rangle$ Clusters Enclosed within Self-Assembled Cages. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6202-6205.	13.8	69
121	Conductance and SERS Measurement of Benzenedithiol Molecules Bridging Between Au Electrodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1791-1795.	3.1	47
122	Single Molecule Dynamics at a Mechanically Controllable Break Junction in Solution at Room Temperature. <i>Journal of the American Chemical Society</i> , 2013, 135, 1009-1014.	13.7	138
123	Mechanically controllable bi-stable states in a highly conductive single pyrazine molecular junction. <i>Nanotechnology</i> , 2013, 24, 315201.	2.6	23
124	Visualization of electronic states on atomically smooth graphitic edges with different types of hydrogen termination. <i>Physical Review B</i> , 2013, 87, .	3.2	41
125	Metal atomic contact under electrochemical potential control. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 164212.	1.8	4
126	The self-breaking mechanism of atomic scale Au nanocontacts. <i>Nanotechnology</i> , 2012, 23, 405702.	2.6	9



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127	Magnetic Edge State of Nanographene and Unconventional Nanographene-Based Host-Guest Systems. Bulletin of the Chemical Society of Japan, 2012, 85, 249-264.	3.2	12
128	Magnetic Properties and Interplay between Nanographene Host and Nitric Acid Guest in Nanographene-Based Nanoporous Carbon. Bulletin of the Chemical Society of Japan, 2012, 85, 376-388.	3.2	2
129	Investigation on the effect of atomic defects on the breaking behaviors of gold nanowires. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
130	Electric Conductance of Single Ethylene and Acetylene Molecules Bridging between Pt Electrodes. Journal of Physical Chemistry C, 2012, 116, 18250-18255.	3.1	27
131	Electron transport through single endohedral Ce@C $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 82 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ metallofullerenes. Physical Review B, 2012, 86, .	3.2	35
132	Single-Molecule Conductance of $\text{I}^-$ -Conjugated Rotaxane: New Method for Measuring Stipulated Electric Conductance of $\text{I}^-$ -Conjugated Molecular Wire Using STM Break Junction. Small, 2012, 8, 726-730.	10.0	67
133	Electron Transport through Single $\text{I}^-$ -Conjugated Molecules Bridging between Metal Electrodes. ChemPhysChem, 2012, 13, 1116-1126.	2.1	44
134	Nature of Electron Transport by Pyridine-Based Tripodal Anchors: Potential for Robust and Conductive Single-Molecule Junctions with Gold Electrodes. Journal of the American Chemical Society, 2011, 133, 3014-3022.	13.7	94
135	Magnetic edge state and dangling bond state of nanographene in activated carbon fibers. Physical Review B, 2011, 84, .	3.2	35
136	Effect of the environment on the electrical conductance of the single benzene-1,4-diamine molecule junction. Beilstein Journal of Nanotechnology, 2011, 2, 755-759.	2.8	29
137	Phosphine Sulfides as an Anchor Unit for Single Molecule Junctions. Chemistry Letters, 2011, 40, 174-176.	1.3	29
138	Electron Transport through Single Molecules Comprising Aromatic Stacks Enclosed in Self-Assembled Cages. Angewandte Chemie - International Edition, 2011, 50, 5708-5711.	13.8	92
139	Inside Cover: Electron Transport through Single Molecules Comprising Aromatic Stacks Enclosed in Self-Assembled Cages (Angew. Chem. Int. Ed. 25/2011). Angewandte Chemie - International Edition, 2011, 50, 5588-5588.	13.8	1
140	Investigation on Atomic and Electric Conductance of the Single Benzene and C60 Molecule Junction Bridging between Metal Electrodes. Hyomen Kagaku, 2011, 32, 331-336.	0.0	0
141	Conductance of Single Triangular Dehydrobenzo[12]annulene Derivative Bridged between Au Electrodes. Chemistry Letters, 2010, 39, 788-789.	1.3	16
142	Conductance of single benzenediamine molecule bridging between Au electrodes. Transactions of the Materials Research Society of Japan, 2010, 35, 275-278.	0.2	0
143	Formation of a Pd atomic chain in a hydrogen atmosphere. Physical Review B, 2010, 81, .	3.2	25
144	Atomic motion in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle \text{H} \langle / \text{mml:mtext} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle \text{D} \langle / \text{mml:mtext} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ junctions induced by phonon excitation. Physical Review B, 2010, 81, .	3.2	23

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145	Electrical conductance of Rh atomic contacts under electrochemical potential control. <i>Physical Review B</i> , 2010, 81, .	3.2	7
146	Effect of Anchoring Group Position on Formation and Conductance of a Single Disubstituted Benzene Molecule Bridging Au Electrodes: Change of Conductive Molecular Orbital and Electron Pathway. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22254-22261.	3.1	86
147	Fabrication of a Well-Defined Single Benzene Molecule Junction Using Ag Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3520-3523.	4.6	60
148	Formation of Co Atomic Wire in Hydrogen Atmosphere. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 923-926.	4.6	23
149	Molecular signature of highly conductive metal-molecule-metal junctions. <i>Physical Review B</i> , 2009, 80, .	3.2	30
150	Nonequilibrium Green's function study on the electronic structure and transportation behavior of the conjugated molecular junction: Terminal connections and intramolecular connections. <i>Journal of Chemical Physics</i> , 2009, 130, 244501.	3.0	34
151	Highly conductive single molecular junctions by direct binding of $\pi$ -conjugated molecule to metal electrodes. <i>Thin Solid Films</i> , 2009, 518, 466-469.	1.8	18
152	Fabrication and conductance characterization of single C60 molecular junction in solutions. <i>Chemical Physics Letters</i> , 2009, 477, 189-193.	2.6	7
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