

Manabu Kiguchi

List of Publications by Year in descending order

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220
papers

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citations

66343

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227
times ranked

4971
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Conductive Molecular Junctions Based on Direct Binding of Benzene to Platinum Electrodes. <i>Physical Review Letters</i> , 2008, 101, 046801.	7.8	287
2	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
3	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
4	Highly-conducting molecular circuits based on antiaromaticity. <i>Nature Communications</i> , 2017, 8, 15984.	12.8	111
5	Accumulation and Depletion Layer Thicknesses in Organic Field Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L1408-L1410.	1.5	105
6	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
7	Single molecule bridging between metal electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2253-2267.	2.8	96
8	Conductance of a single molecule anchored by an isocyanide substituent to gold electrodes. <i>Applied Physics Letters</i> , 2006, 89, 213104.	3.3	94
9	Nature of Electron Transport by Pyridine-Based Tripodal Anchors: Potential for Robust and Conductive Single-Molecule Junctions with Gold Electrodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 3014-3022.	13.7	94
10	Electron Transport through Single Molecules Comprising Aromatic Stacks Enclosed in Self-Assembled Cages. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5708-5711.	13.8	92
11	Single-molecule junctions for molecular electronics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8842-8858.	5.5	88
12	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
13	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
14	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
15	Electric-field-induced charge injection or exhaustion in organic thin film transistor. <i>Physical Review B</i> , 2005, 71, .	3.2	80
16	Evidence for a Single Hydrogen Molecule Connected by an Atomic Chain. <i>Physical Review Letters</i> , 2007, 98, 146802.	7.8	78
17	“Doping” of Polyyne with an Organometallic Fragment Leads to Highly Conductive Metallapolyyne Molecular Wire. <i>Journal of the American Chemical Society</i> , 2018, 140, 10080-10084.	13.7	78
18	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

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19	Triphosphasumanene Trisulfide: High Out-of-Plane Anisotropy and Janus-Type π -Surfaces. <i>Journal of the American Chemical Society</i> , 2017, 139, 5787-5792.	13.7	75
20	Local structure of a trapped photoexcited state of a Fe-Co cyanide studied by x-ray-absorption fine-structure spectroscopy. <i>Physical Review B</i> , 1999, 60, 9340-9346.	3.2	72
21	Highly Conductive [3Å- <i>in</i>] Gold-Ion Clusters Enclosed within Self-Assembled Cages. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6202-6205.	13.8	69
22	Conductance bistability of gold nanowires at room temperature. <i>Physical Review B</i> , 2006, 73, .	3.2	68
23	Single-Molecule Conductance of π -Conjugated Rotaxane: New Method for Measuring Stipulated Electric Conductance of π -Conjugated Molecular Wire Using STM Break Junction. <i>Small</i> , 2012, 8, 726-730.	10.0	67
24	Formation of crosslinked-fullerene-like framework as negative replica of zeolite Y. <i>Carbon</i> , 2013, 62, 455-464.	10.3	66
25	Inorganic and Organometallic Molecular Wires for Single-Molecule Devices. <i>Chemistry - A European Journal</i> , 2017, 23, 4741-4749.	3.3	65
26	Conductance of Single 1,4-Benzenediamine Molecule Bridging between Au and Pt Electrodes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13349-13352.	3.1	63
27	Electrical conductance of single C ₆₀ and benzene molecules bridging between Pt electrode. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	62
28	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
29	Conductance of Single C ₆₀ Molecule Bridging Metal Electrodes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8140-8143.	3.1	59
30	Role of edge geometry and chemistry in the electronic properties of graphene nanostructures. <i>Faraday Discussions</i> , 2014, 173, 173-199.	3.2	58
31	Growth of nanographite on Pt(111) and its edge state. <i>Applied Physics Letters</i> , 2006, 88, 153126.	3.3	56
32	Resolving metal-molecule interfaces at single-molecule junctions. <i>Scientific Reports</i> , 2016, 6, 26606.	3.3	55
33	Dynamic Characterization of the Postbreaking Behavior of a Nanowire. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20088-20094.	3.1	54
34	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
35	Spin-crossover phase transition of a chain Fe(II) complex studied by x-ray-absorption fine-structure spectroscopy. <i>Physical Review B</i> , 1998, 58, 14238-14244.	3.2	47
36	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

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37	Concise Synthesis and Facile Nanotube Assembly of a Symmetrically Multifunctionalized Cycloparaphenylene. <i>Chemistry - A European Journal</i> , 2015, 21, 18900-18904.	3.3	46
38	Atomic and electronic structures of MgO/Ag() heterointerface. <i>Surface Science</i> , 2002, 512, 97-106.	1.9	45
39	Fabrication of stable Pd nanowire assisted by hydrogen in solution. <i>Applied Physics Letters</i> , 2006, 88, 253112.	3.3	45
40	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
41	Hydrogen-assisted stabilization of Ni nanowires in solution. <i>Applied Physics Letters</i> , 2005, 87, 043104.	3.3	44
42	Electron Transport through Single π -Conjugated Molecules Bridging between Metal Electrodes. <i>ChemPhysChem</i> , 2012, 13, 1116-1126.	2.1	44
43	Direct imaging of monovacancy-hydrogen complexes in a single graphitic layer. <i>Physical Review B</i> , 2014, 89, .	3.2	44
44	Bowl Inversion and Electronic Switching of Buckybowls on Gold. <i>Journal of the American Chemical Society</i> , 2016, 138, 12142-12149.	13.7	44
45	Polar surface engineering in ultrathin MgO(111)-Ag(111): Possibility of a metal-insulator transition and magnetism. <i>Physical Review B</i> , 2004, 69, .	3.2	43
46	Theoretical Investigation on the Electron Transport Path through the Porphyrin Molecules and Chemisorption of CO. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7416-7423.	3.1	42
47	Theoretical investigation on the influence of temperature and crystallographic orientation on the breaking behavior of copper nanowire. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6514.	2.8	42
48	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
49	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
50	Molecular orientations and adsorption structures of Γ -sexithienyl thin films grown on Ag (110) and Ag (111) surfaces. <i>Surface Science</i> , 2004, 559, 77-84.	1.9	39
51	The effect of bonding of a CO molecule on the conductance of atomic metal wires. <i>Nanotechnology</i> , 2007, 18, 035205.	2.6	39
52	Metal-Induced Gap States at Well Defined Alkali-Halide/Metal Interfaces. <i>Physical Review Letters</i> , 2003, 90, 196803.	7.8	37
53	Temperature and thickness dependence of molecular orientation of Γ -sexithienyl on Cu(111). <i>Journal of Applied Physics</i> , 2003, 94, 4866.	2.5	36
54	One-dimensional ordered structure of Γ -sexithienyl on Cu(110). <i>Applied Physics Letters</i> , 2004, 84, 3444-3446.	3.3	35

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55	Effect of End Group Position on the Formation of a Single Porphyrin Molecular Junction. Journal of Physical Chemistry C, 2009, 113, 9014-9017.	3.1	35
56	Magnetic edge state and dangling bond state of nanographene in activated carbon fibers. Physical Review B, 2011, 84, .	3.2	35
57	Electron transport through single endohedral Ce@C $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 82 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ metallofullerenes. Physical Review B, 2012, 86, .	3.2	35
58	Three reversible states controlled on a gold monoatomic contact by the electrochemical potential. Physical Review B, 2008, 77, .	3.2	34
59	Nonequilibrium Green's function study on the electronic structure and transportation behavior of the conjugated molecular junction: Terminal connections and intramolecular connections. Journal of Chemical Physics, 2009, 130, 244501.	3.0	34
60	Identifying the molecular adsorption site of a single molecule junction through combined Raman and conductance studies. Chemical Science, 2019, 10, 6261-6269.	7.4	32
61	Molecular signature of highly conductive metal-molecule-metal junctions. Physical Review B, 2009, 80, .	3.2	30
62	Thiophene adsorption on Pd(111) and Pd(100) surfaces studied by total-reflection S K-edge X-ray absorption fine-structure spectroscopy. Surface Science, 1998, 414, 107-117.	1.9	29
63	Surface structures and thermal vibrations of Ni and Cu thin films studied by extended x-ray-absorption fine structure. Physical Review B, 2000, 61, 14020-14027.	3.2	29
64	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
65	Phosphine Sulfides as an Anchor Unit for Single Molecule Junctions. Chemistry Letters, 2011, 40, 174-176.	1.3	29
66	In-situ measurement of molecular orientation of the pentacene ultrathin films grown on SiO ₂ substrates. Surface Science, 2006, 600, 2518-2522.	1.9	27
67	Electric Conductance of Single Ethylene and Acetylene Molecules Bridging between Pt Electrodes. Journal of Physical Chemistry C, 2012, 116, 18250-18255.	3.1	27
68	Single Molecular Bridging of Au Nanogap Using Aryl Halide Molecules. Journal of Physical Chemistry C, 2013, 117, 24277-24282.	3.1	27
69	Visualization of induced charge in an organic thin-film transistor by cross-sectional potential mapping. Journal of Applied Physics, 2007, 101, 094509.	2.5	26
70	Effect of the Molecule-Metal Interface on the Surface-Enhanced Raman Scattering of 1,4-Benzenedithiol. Journal of Physical Chemistry C, 2016, 120, 1038-1042.	3.1	26
71	Governing the Metal-Molecule Interface: Towards New Functionality in Single-Molecule Junctions. Bulletin of the Chemical Society of Japan, 2017, 90, 1-11.	3.2	26
72	Formation of a Pd atomic chain in a hydrogen atmosphere. Physical Review B, 2010, 81, .	3.2	25

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73	Electron Transport Properties of Au, Ag, and Cu Atomic Contacts in a Hydrogen Environment. Journal of Physical Chemistry C, 2014, 118, 7489-7493.	3.1	25
74	Symmetry of Single Hydrogen Molecular Junction with Au, Ag, and Cu Electrodes. Journal of Physical Chemistry C, 2015, 119, 19143-19148.	3.1	25
75	Electronic State of Oxidized Nanographene Edge with Atomically Sharp Zigzag Boundaries. ACS Nano, 2013, 7, 6868-6874.	14.6	24
76	Atomic motion in $\langle \text{H} \rangle_2$ junctions induced by phonon excitation. Physical Review B, 2010, 81, .	3.2	23
77	Formation of Co Atomic Wire in Hydrogen Atmosphere. Journal of Physical Chemistry Letters, 2010, 1, 923-926.	4.6	23
78	Self-Aligned Formation of Sub 1 nm Gaps Utilizing Electromigration during Metal Deposition. ACS Applied Materials & Interfaces, 2013, 5, 12869-12875.	8.0	23
79	Mechanically controllable bi-stable states in a highly conductive single pyrazine molecular junction. Nanotechnology, 2013, 24, 315201.	2.6	23
80	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
81	Epitaxial growth and domain coalescence of sexithiophene induced by the steps on cleaved KBr(001). Journal of Crystal Growth, 2004, 265, 296-301.	1.5	20
82	Surface enhanced Raman scattering of molecules in metallic nanogaps. Journal of Optics (United Kingdom), 2010, 12, 022202.	2.2	20
83	Controlling stacking order and charge transport in π -stacks of aromatic molecules based on surface assembly. Chemical Communications, 2018, 54, 12443-12446.	4.1	20
84	Metal-induced gap states in epitaxial organic-insulator/metal interfaces. Physical Review B, 2005, 72, .	3.2	19
85	Molecular rectification in triangularly shaped graphene nanoribbons. Journal of Computational Chemistry, 2013, 34, 360-365.	3.3	19
86	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
87	Asymmetric surface structure of SO ₂ on Pd(111) studied by total-reflection X-ray absorption fine structure spectroscopy. Chemical Physics Letters, 1999, 300, 645-650.	2.6	18
88	The effect of hydrogen evolution reaction on conductance quantization of Au, Ag, Cu nanocontacts. Nanotechnology, 2007, 18, 424011.	2.6	18
89	Highly conductive single molecular junctions by direct binding of π -conjugated molecule to metal electrodes. Thin Solid Films, 2009, 518, 466-469.	1.8	18
90	Surface enhanced Raman scattering of a single molecular junction. Physical Chemistry Chemical Physics, 2015, 17, 21254-21260.	2.8	18

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91	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
92	Coverage dependence of surface structure and vibration of Cl/Cu(100) compared to Cl/Ni(100). <i>Physical Review B</i> , 1997, 56, 1561-1567.	3.2	17
93	Interface structure of alkali-halide heteroepitaxial films studied by x-ray-absorption fine structure. <i>Physical Review B</i> , 1999, 60, 16205-16210.	3.2	17
94	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
95	Investigation on Single-Molecule Junctions Based on Current-Voltage Characteristics. <i>Micromachines</i> , 2018, 9, 67.	2.9	17
96	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
97	Conductance of Single Triangular Dehydrobenzo[12]annulene Derivative Bridged between Au Electrodes. <i>Chemistry Letters</i> , 2010, 39, 788-789.	1.3	16
98	Highly conductive single naphthalene and anthracene molecular junction with well-defined conductance. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	16
99	Adsorption structures of alkanethiols self-assembled monolayers on the Cu(100) surface studied by S-KEXAFS and C-KEXAFS spectroscopies. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 787-789.	2.4	15
100	Single-molecule conductance of DNA gated and ungated by DNA-binding molecules. <i>Chemical Communications</i> , 2017, 53, 10378-10381.	4.1	15
101	Tolerance to Stretching in Thiol-Terminated Single-Molecule Junctions Characterized by Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6712-6717.	4.6	15
102	Principal Component Analysis of Surface-Enhanced Raman Scattering Spectra Revealing Isomer-Dependent Electron Transport in Spiropyran Molecular Junctions: Implications for Nanoscale Molecular Electronics. <i>ACS Omega</i> , 2022, 7, 5578-5583.	3.5	15
103	Formation of Single Cu Atomic Chain in Nitrogen Atmosphere. <i>Journal of Physical Chemistry C</i> , 2015, 119, 862-866.	3.1	14
104	Single Tripyridyl-Triazine Molecular Junction with Multiple Binding Sites. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8936-8940.	3.1	14
105	Single Molecular Junction Study on $H_{2}O@C_{60}$: $H_{2}O$ is Electrostatically Isolated. <i>ChemPhysChem</i> , 2017, 18, 1229-1233.	2.1	14
106	Molecular Diode Studies Based on a Highly Sensitive Molecular Measurement Technique. <i>Sensors</i> , 2017, 17, 956.	3.8	14
107	Tuneable single-molecule electronic conductance of C_{60} by encapsulation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12606-12610.	2.8	14
108	Magnetic properties of ultrathin cobalt films on SiO ₂ substrates. <i>Thin Solid Films</i> , 2005, 493, 221-225.	1.8	13

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109	Electronic properties of metal-induced gap states formed at alkali-halide/metal interfaces. <i>Physical Review B</i> , 2005, 71, .	3.2	13
110	Formation of stable nanowires from ferromagnetic metals using 2-butyne-1,4-diol. <i>Surface Science</i> , 2007, 601, 287-291.	1.9	13
111	Single-molecule junctions of π molecules. <i>Materials Chemistry Frontiers</i> , 2018, 2, 214-218.	5.9	13
112	Effects of anharmonicity of ionic bonds on the lattice distortion at the interface of alkali halide heterostructures. <i>Surface Science</i> , 2000, 470, 81-88.	1.9	12
113	Visible light photoemission and negative electron affinity of single-crystalline CsCl thin films. <i>Surface Science</i> , 2003, 544, 220-226.	1.9	12
114	Stable iron-group metal nano contact showing quantized conductance in solution. <i>Surface Science</i> , 2008, 602, 2333-2336.	1.9	12
115	Magnetic Edge State of Nanographene and Unconventional Nanographene-Based Host-Guest Systems. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 249-264.	3.2	12
116	Electronic Conductance of Platinum Atomic Contact in a Nitrogen Atmosphere. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9903-9907.	3.1	12
117	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
118	Chemically induced topological zero mode at graphene armchair edges. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5145-5154.	2.8	12
119	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
120	Conductance Characteristics of Ni Nanoconstrictions Prepared in Solution. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 2000-2003.	1.5	11
121	Effect of Mechanical Strain on Electric Conductance of Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19452-19457.	3.1	11
122	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
123	Impact of junction formation processes on single molecular conductance. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7947-7952.	2.8	11
124	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
125	Kinetic investigation of a chemical process in single-molecule junction. <i>Chemical Communications</i> , 2020, 56, 309-312.	4.1	11
126	Single-Molecule Junction of a Cationic Rh(III) Polyynene Molecular Wire. <i>Inorganic Chemistry</i> , 2020, 59, 13254-13261.	4.0	11

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127	Electronic structure of alkali halide-metal interface: LiCl()/Cu(). Surface Science, 2003, 522, 84-89.	1.9	10
128	Highly stable Au atomic contacts covered with benzenedithiol under ambient conditions. Physical Chemistry Chemical Physics, 2014, 16, 15662.	2.8	10
129	High electronic couplings of single mesitylene molecular junctions. Beilstein Journal of Nanotechnology, 2015, 6, 2431-2437.	2.8	10
130	Electrical conductance and structure of copper atomic junctions in the presence of water molecules. Physical Chemistry Chemical Physics, 2015, 17, 32436-32442.	2.8	10
131	Specific single-molecule detection of glucose in a supramolecularly designed tunnel junction. Chemical Communications, 2017, 53, 5212-5215.	4.1	10
132	Controlling the formation process and atomic structures of single pyrazine molecular junction by tuning the strength of the metal-molecule interaction. Physical Chemistry Chemical Physics, 2017, 19, 9843-9848.	2.8	10
133	Surface-Enhanced Raman Scattering in Molecular Junctions. Sensors, 2017, 17, 1901.	3.8	10
134	Surface enhanced Raman scattering on molecule junction. Applied Materials Today, 2019, 14, 76-83.	4.3	10
135	The practical electromagnetic effect in surface-enhanced Raman scattering observed by the lithographically fabricated gold nanosquare dimers. AIP Advances, 2020, 10, .	1.3	10
136	Thickness Dependent Characteristics of a Copper Phthalocyanine Thin-Film Transistor Investigated by in situ FET Measurement System. Molecular Crystals and Liquid Crystals, 2006, 455, 347-351.	0.9	9
137	The self-breaking mechanism of atomic scale Au nanocontacts. Nanotechnology, 2012, 23, 405702.	2.6	9
138	Investigation on the effect of atomic defects on the breaking behaviors of gold nanowires. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
139	Molecular Wiring Method Based on Polymerization or Copolymerization of an Insulated π -Conjugated Monomer. Bulletin of the Chemical Society of Japan, 2014, 87, 871-873.	3.2	9
140	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
141	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.	8.0	9
142	Metal-induced gap states at insulator/metal interfaces. E-Journal of Surface Science and Nanotechnology, 2004, 2, 191-199.	0.4	9
143	Fabrication of stable metal nanowire showing conductance quantization in solution. Surface Science, 2007, 601, 4127-4130.	1.9	8
144	Quantized conductance behavior of Pt metal nanoconstrictions under electrochemical potential control. Surface Science, 2007, 601, 4122-4126.	1.9	8

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145	Atomic structure of water/Au, Ag, Cu and Pt atomic junctions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4673-4677.	2.8	8
146	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
147	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
148	Atomic and electronic structure of CsBr film grown on LiF and KBr(). <i>Surface Science</i> , 2003, 523, 73-79.	1.9	7
149	Mechanical fabrication of metal nano-contacts showing conductance quantization under electrochemical potential control. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 530-533.	2.7	7
150	Anisotropic Polymerization of a Long-Chain Diacetylene Derivative Langmuir-Blodgett Film on a Step-Bunched SiO ₂ /Si Surface. <i>Langmuir</i> , 2006, 22, 5742-5747.	3.5	7
151	Electric conductance of metal nanowires at mechanically controllable break junctions under electrochemical potential control. <i>Surface Science</i> , 2007, 601, 5262-5265.	1.9	7
152	Fabrication and conductance characterization of single C60 molecular junction in solutions. <i>Chemical Physics Letters</i> , 2009, 477, 189-193.	2.6	7
153	Electrical conductance of Rh atomic contacts under electrochemical potential control. <i>Physical Review B</i> , 2010, 81, .	3.2	7
154	Fabrication of single linear aromatic molecular junction with high formation probability. <i>Applied Physics Express</i> , 2014, 7, 105201.	2.4	7
155	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
156	Hybrid Molecular Junctions Using Au-S and Au-Fe Bindings. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9261-9268.	3.1	7
157	Single-molecule junction spontaneously restored by DNA zipper. <i>Nature Communications</i> , 2021, 12, 5762.	12.8	7
158	SO ₂ adsorption on thin Pd/Ni(111) films studied by X-ray absorption fine structure spectroscopy. <i>Surface Science</i> , 1999, 442, 141-148.	1.9	6
159	Anomalous metallic-like transport of Co-Pd ferromagnetic nanoparticles cross-linked with Fe-conjugated molecules having a rotational degree of freedom. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 288-296.	2.8	6
160	Magnetic edge-states in nanographene, HNO ₃ -doped nanographene and its residue compounds of nanographene-based nanoporous carbon. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6273-6282.	2.8	6
161	Single-molecule junction of an overcrowded ethylene with binary conductance states. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EG05.	1.5	6
162	Ruthenium Tris-bipyridine Single-Molecule Junctions with Multiple Joint Configurations. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1297-1301.	3.3	6

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