

# Ryo Yamada

## List of Publications by Year in descending order

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48  
papers

1,627  
citations

394286

19  
h-index

289141

40  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1732  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Scanning Tunneling Microscopy Observation of the Self-Assembly Process of Alkanethiols on Gold(111) in Solution. <i>Langmuir</i> , 1998, 14, 855-861.	1.6	174
2	Effect of Temperature on Structure of the Self-Assembled Monolayer of Decanethiol on Au(111) Surface. <i>Langmuir</i> , 2000, 16, 5523-5525.	1.6	146
3	Electrical Conductance of Oligothiophene Molecular Wires. <i>Nano Letters</i> , 2008, 8, 1237-1240.	4.5	146
4	In Situ, Real Time Monitoring of the Self-Assembly Process of Decanethiol on Au(111) in Liquid Phase. A Scanning Tunneling Microscopy Investigation. <i>Langmuir</i> , 1997, 13, 5218-5221.	1.6	126
5	Formation of Two-Dimensional Crystals of Alkanes on the Au(111) Surface in Neat Liquid. <i>Journal of the American Chemical Society</i> , 1999, 121, 4090-4091.	6.6	95
6	Materials Science of the Gel to Fluid Phase Transition in a Supported Phospholipid Bilayer. <i>Physical Review Letters</i> , 2002, 89, 246103.	2.9	91
7	Visible light emission from polymer-based field-effect transistors. <i>Applied Physics Letters</i> , 2004, 84, 3037-3039.	1.5	88
8	Two-Dimensional Crystals of Alkanes Formed on Au(111) Surface in Neat Liquid: A Structural Investigation by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6021-6027.	1.2	68
9	Solvent Effect on the Structure of the Self-Assembled Monolayer of Alkanethiol. <i>Chemistry Letters</i> , 1999, 28, 667-668.	0.7	60
10	Manipulation of Droplets by Dynamically Controlled Wetting Gradients. <i>Langmuir</i> , 2005, 21, 4254-4256.	1.6	59
11	Thermopower of Benzenedithiol and C <sub>60</sub> Molecular Junctions with Ni and Au Electrodes. <i>Nano Letters</i> , 2014, 14, 5276-5280.	4.5	57
12	Electrical Resistance of Long Oligothiophene Molecules. <i>Applied Physics Express</i> , 0, 2, 025002.	1.1	50
13	Magnetoresistance of single molecular junctions measured by a mechanically controllable break junction method. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	47
14	Completely Encapsulated Oligothiophenes: Synthesis, Properties, and Single-Molecule Conductance. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11980-11984.	7.2	42
15	Universal Temperature Crossover Behavior of Electrical Conductance in a Single Oligothiophene Molecular Wire. <i>ACS Nano</i> , 2012, 6, 5078-5082.	7.3	42
16	Preparation of Organic Light-emitting Field-effect Transistors with Asymmetric Electrodes. <i>Chemistry Letters</i> , 2005, 34, 494-495.	0.7	31
17	Thiophene-based Tripodal Anchor Units for Hole Transport in Single-Molecule Junctions with Gold Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3754-3759.	2.1	31
18	Structural Investigation of the Self-Assembled Monolayer of Decanethiol on the Reconstructed and (1 $\bar{1}$ -1)-Au(100) Surfaces by Scanning Tunneling Microscopy. <i>Langmuir</i> , 2001, 17, 4148-4150.	1.6	24

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19	Thermoelectricity at the molecular scale: a large Seebeck effect in endohedral metallofullerenes. <i>Nanoscale</i> , 2015, 7, 20497-20502.	2.8	24
20	Mechanical switching of current-voltage characteristics in spiropyran single-molecule junctions. <i>Nanoscale</i> , 2020, 12, 7527-7531.	2.8	19
21	Single-molecule rectifiers based on voltage-dependent deformation of molecular orbitals in carbazole oligomers. <i>Nanoscale</i> , 2018, 10, 19818-19824.	2.8	17
22	Highly Planar and Completely Insulated Oligothiophenes: Effects of $\pi$ -Conjugation on Hopping Charge Transport. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3197-3204.	2.1	17
23	Formation of Molecularly Ordered Domain of 1-Decanethiol in the Mixed Self-Assembled Monolayer with Bis(4-pyridyl)disulfide - A Scanning Tunneling Microscopy Observation. <i>Chemistry Letters</i> , 1997, 26, 987-988.	0.7	14
24	Scanning tunnelling microscopy study of the self assembly of 2-mercaptopyrimidine and 4,6-dimethyl-2-mercaptopyrimidine on Au(111). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1315-1319.	1.7	14
25	In Situ Observation of the Two-Dimensional Crystals of Alkanes on a Reconstructed Au(100) Surface in Neat Liquid by Scanning Tunneling Microscopy. <i>Langmuir</i> , 2000, 16, 4413-4415.	1.6	14
26	Improving Intramolecular Hopping Charge Transport via Periodical Segmentation of $\pi$ -Conjugation in a Molecule. <i>Journal of the American Chemical Society</i> , 2021, 143, 599-603.	6.6	14
27	Characterization of molecular assemblies on silicon surfaces by attenuated total reflectance infrared spectroscopy. <i>Thin Solid Films</i> , 2006, 499, 8-12.	0.8	13
28	Electrical Conductance Measurement of Oligothiophene Molecular Wires Using Nanogap Electrodes Prepared by Electrochemical Plating. <i>Chemistry Letters</i> , 2007, 36, 224-225.	0.7	13
29	Functional oligothiophenes toward molecular wires in single-molecular electronics. <i>Pure and Applied Chemistry</i> , 2012, 84, 931-943.	0.9	11
30	Effects of <i>cis</i> - <i>trans</i> Conformation between Thiophene Rings on Conductance of Oligothiophenes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5292-5296.	2.1	11
31	Temperature Dependence of the Structure of Alkyl Monolayers on Si(111) Surface via Si-C Bond by ATR-FT-IR Spectroscopy. <i>Chemistry Letters</i> , 2004, 33, 492-493.	0.7	10
32	Interfacial energy gradient at a front of an electrochemical wave appearing in CuSn-alloy oscillatory electrodeposition. <i>Electrochimica Acta</i> , 2009, 55, 358-362.	2.6	7
33	Novel Scanning Probe Microscope for Local Elasticity Measurement. <i>Japanese Journal of Applied Physics</i> , 1996, 35, L846-L848.	0.8	6
34	Three site molecular orbital controlled single-molecule rectifiers based on perpendicularly linked porphyrin-imide dyads. <i>Nanoscale</i> , 2019, 11, 22724-22729.	2.8	5
35	STM Investigation of Self-Assembly Process of Decanethiol on Au (111). <i>Electrochemistry</i> , 1997, 65, 440-443.	0.3	4
36	Transport of a droplet by directional deformations with asymmetric electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 276, 203-206.	2.3	4

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37	Electrical conductance measurement of Hg <sup>II</sup> -mediated DNA duplex in buffered aqueous solution. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 1083-1087.	0.4	3
38	Single-Molecule Conductance of a $\pi$ -Hybridized Tripodal Anchor while Maintaining Electronic Communication. <i>Small</i> , 2021, 17, 2006709.	5.2	3
39	MECHANISM OF ELECTRICAL CONDUCTION THROUGH SINGLE OLIGOTHIOPHENE MOLECULES. <i>Functional Materials Letters</i> , 2010, 03, 245-248.	0.7	2
40	Analysis of Single Molecule Conductance of Heterogeneous Porphyrin Arrays by Partial Transmission Probabilities. <i>ChemistrySelect</i> , 2017, 2, 7484-7488.	0.7	2
41	Electrical Conductance of Single Oligothiophene Molecular Wires: Temperature Effect. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1286, 1.	0.1	1
42	Observation of the transition from tunneling to hopping carrier transport through single oligothiophene molecules. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1091, 1.	0.1	0
43	Patterning of Organic Semiconductors on Silicon Oxide Using an Atomic Force Microscope with an Alternating-Current Electric Field. <i>Applied Physics Express</i> , 2009, 2, 115001.	1.1	0
44	Methods to Determine Electrical Conductance of Single-Molecule Junctions. , 2016, , 25-59.		0
45	Two-dimensional binary-coded coordinate markers for fabricating nanodevices. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 080702.	0.8	0
46	STM Studies on Molecular Assembly at Solid/Liquid Interfaces. <i>Nanoscience and Technology</i> , 2007, , 65-100.	1.5	0
47	Carrier Transport Mechanisms in Molecular Wires. <i>Hyomen Kagaku</i> , 2011, 32, 616-621.	0.0	0
48	Charge Transport Mechanisms in Oligothiophene Molecular Junctions Studied by Electrical Conductance and Thermopower Measurements. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 341-353.	0.0	0