

# Yumi Yakiyama

## List of Publications by Year in descending order

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50  
papers

1,085  
citations

430874

18  
h-index

434195

31  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1207  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Bond Interaction in Organic Conductors: Redox Activation, Molecular Recognition, Structural Regulation, and Proton Transfer in Donor-Acceptor Charge-Transfer Complexes of TTF-Imidazole. <i>Journal of the American Chemical Society</i> , 2007, 129, 10837-10846.	13.7	142
2	Molecular electron-spin quantum computers and quantum information processing: pulse-based electron magnetic resonance spin technology applied to matter spin-qubits. <i>Journal of Materials Chemistry</i> , 2009, 19, 3739.	6.7	133
3	Triple-Stranded Metallo-Helicates Addressable as Lloyd's Electron Spin Qubits. <i>Journal of the American Chemical Society</i> , 2010, 132, 6944-6946.	13.7	70
4	Selective Formation of Conductive Network by Radical-Induced Oxidation. <i>Journal of the American Chemical Society</i> , 2016, 138, 1776-1779.	13.7	46
5	Acid/base-regulated reversible electron transfer disproportionation of N-linked bicarbazole and biacridine derivatives. <i>Chemical Science</i> , 2015, 6, 4160-4173.	7.4	37
6	The Impact of the Polymer Chain Length on the Catalytic Activity of Poly(N-vinyl-2-pyrrolidone)-supported Gold Nanoclusters. <i>Scientific Reports</i> , 2017, 7, 9579.	3.3	37
7	Triazasumanene: An Isoelectronic Heteroanalogue of Sumanene. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 531-537.	3.2	37
8	Crystal surface mediated structure transformation of a kinetic framework composed of multi-interactive ligand TPHAP and Co(ii). <i>Chemical Communications</i> , 2012, 48, 10651.	4.1	31
9	Universality of the giant Seebeck effect in organic small molecules. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1276-1283.	5.9	31
10	Zwitterionic $\pi$ -radical involving EDT-TTF-imidazole and F4TCNQ: redox properties and self-assembled structure by hydrogen-bonds and multiple S $\cdot$ S interactions. <i>Chemical Communications</i> , 2007, , 4009.	4.1	30
11	Synthesis of Triaryltriazasumanenes. <i>Chemistry Letters</i> , 2017, 46, 146-148.	1.3	29
12	Tris(2-hydroxyphenyl)triazasumanene: bowl-shaped excited-state intramolecular proton transfer (ESIPT) fluorophore coupled with aggregation-induced enhanced emission (AIEE). <i>Materials Chemistry Frontiers</i> , 2018, 2, 514-519.	5.9	25
13	Formation of a Large Confined Spherical Space with a Small Aperture Using Flexible Hexasubstituted Sumanene. <i>Journal of the American Chemical Society</i> , 2019, 141, 18099-18103.	13.7	24
14	TTF-Cytosine Dyad as an Electron-donor Molecule Having Proton-accepting Ability: Formation of Hemiprotonated Cytosine Dimer in I $3$ <sup>-</sup> Salt. <i>Chemistry Letters</i> , 2007, 36, 1102-1103.	1.3	22
15	Hydrogen-Bond Architectures of Protonated 4,4'-Biimidazolium Derivatives and Oligo(imidazolium)s in Charge-Transfer Salts with Tetracyanoquinodimethane. <i>Crystal Growth and Design</i> , 2008, 8, 3058-3065.	3.0	21
16	Synthesis of a C <sub>70</sub> Fragment Buckybowl C <sub>28</sub> H <sub>14</sub> from a C <sub>60</sub> Fragment Sumanene. <i>Chemistry Letters</i> , 2017, 46, 1556-1559.	1.3	21
17	A Novel TTF-based Electron-donor with Imidazole-annulation Having Hydrogen-bonding and Proton-transfer Abilities. <i>Chemistry Letters</i> , 2008, 37, 24-25.	1.3	20
18	Sumanene derivatives functionalized at the internal carbon. <i>Chemical Communications</i> , 2017, 53, 697-700.	4.1	20

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19	2,3,5,6,8,9-Hexabromosumanene: Synthesis and Its Application to Suzuki–Miyaura Cross-coupling. <i>Chemistry Letters</i> , 2017, 46, 1368-1371.	1.3	20
20	Syntheses, Redox Properties, Self-Assembled Structures, and Charge-Transfer Complexes of Imidazole- and Benzimidazole-Annulated Tetrathiafulvalene Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 927-939.	3.2	18
21	Partially Fluoride-Substituted Hydroxyapatite as a Suitable Support for the Gold-Catalyzed Homocoupling of Phenylboronic Acid: An Example of Interface Modification. <i>ACS Catalysis</i> , 2017, 7, 2998-3003.	11.2	18
22	Proton-transfer salts between an EDT-TTF derivative having imidazole-ring and anilic acids: multi-dimensional networks by acid–base hydrogen-bonds, $\pi$ -stacks and chalcogen atom interactions. <i>CrystEngComm</i> , 2011, 13, 3689.	2.6	17
23	Redox-active Diazaphenalenyl-based Molecule and Neutral Radical Formation. <i>Chemistry Letters</i> , 2015, 44, 1131-1133.	1.3	17
24	Molecular Packing and Solid-State Photophysical Properties of 1,3,6,8-Tetraalkylpyrenes. <i>Chemistry - A European Journal</i> , 2019, 25, 14817-14825.	3.3	17
25	Multidimensional Networks of $\pi$ -Conjugated Oligomers: Crystal Structures of 4,4'-bis(2,2'-bipyridyl)-4,4'-bipyridine-Quaterimidazole in Hydrate, Protonated Salt, and Dinuclear Copper Complexes. <i>Crystal Growth and Design</i> , 2006, 6, 1043-1047.	3.0	16
26	Solution-Stable Triple Helicates of Quaterimidazole: Three-Dimensional Crystal Structures and Optical Resolution by Chiral-Column HPLC. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3438-3445.	2.0	15
27	The diversity of Zn(II) coordination networks composed of multi-interactive ligand TPAP via weak intermolecular interaction. <i>CrystEngComm</i> , 2014, 16, 6335-6344.	2.6	14
28	Structural Investigation of Chemiresistive Sensing Mechanism in Redox-Active Porous Coordination Network. <i>Inorganic Chemistry</i> , 2017, 56, 8735-8738.	4.0	14
29	Supramolecular Architectures and Hydrogen-Bond Directionalities of 4,4'-Biimidazole Metal Complexes Depending on Coordination Geometries. <i>Crystal Growth and Design</i> , 2010, 10, 4898-4905.	3.0	13
30	An Organic Mixed-Valence Ligand for Multistate Redox-Active Coordination Networks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4717-4721.	13.8	13
31	Crystallinity-dependence of ionic conductivity in the ion pairs of a multi-interactive anion. <i>Chemical Communications</i> , 2016, 52, 3962-3965.	4.1	10
32	Thermoelectric and Thermal Transport Properties in Sumanene Crystals. <i>Chemistry Letters</i> , 2018, 47, 524-527.	1.3	10
33	Dielectric response of 1,1-difluorosumanene caused by an in-plane motion. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1752-1758.	5.9	10
34	Synthesis of the C <sub>70</sub> Fragment Buckybowl, Homosumanene, and Heterahomosumanenes via Ring-Expansion Reactions from Sumanenone. <i>Journal of Organic Chemistry</i> , 2022, 87, 2508-2519.	3.2	10
35	Synthesis, crystal structure, and properties of a new hydrogen-bonded electron-donor: 1,6-Dithiapyrene-imidazole. <i>Solid State Sciences</i> , 2008, 10, 1720-1723.	3.2	9
36	Size-Controlled Preparation of Gold Nanoclusters on Hydroxyapatite Through Trans-Deposition Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4649-4657.	0.9	8

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37	Control by one drop of solvent: selective preparation of guest release/trap-triggered interconvertible molecular crystals. <i>Chemical Communications</i> , 2020, 56, 9687-9690.	4.1	8
38	Formation of a nanometer-thick water layer at high humidity on a dynamic crystalline material composed of multi-interactive molecules. <i>Chemical Communications</i> , 2015, 51, 6828-6831.	4.1	7
39	A Sumanene-based Aryne, "Sumanyne". <i>Chemistry Letters</i> , 2017, 46, 446-448.	1.3	7
40	Generation of "Sumanenylidene": A Ground-State Triplet Carbene on a Curved $\pi$ -Conjugated Periphery. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1844-1848.	3.3	7
41	Internal-peripheral Diomylation of Sumanene Overcoming the Dearomatization Hurdle by the Distortion of the Curved $\pi$ -System. <i>Chemistry Letters</i> , 2018, 47, 736-739.	1.3	6
42	Synthesis, crystal structure, and charge-transfer complexes of TTF derivatives having two imidazole hydrogen-bonding units. <i>Physica B: Condensed Matter</i> , 2010, 405, S41-S44.	2.7	5
43	Nucleophilic Substitution at the Internal Carbon of Sumanene Framework with Inversion of Configuration. <i>Chemistry Letters</i> , 2018, 47, 878-880.	1.3	4
44	Sumanene Hexaester: An Electron-Deficient Buckybowl. <i>Synthesis</i> , 2019, 51, 4576-4581.	2.3	4
45	Liquid Phase Pulsed Laser Ablation on Pyrite. <i>Chemistry Letters</i> , 2019, 48, 712-714.	1.3	3
46	Synthesis of $C_{70}$ -fragment buckybowls bearing alkoxy substituents. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 681-690.	2.2	3
47	Crystal Engineering of Coordination Networks Using Multi-interactive Ligands. , 2015, , 223-240.		2
48	Synthesis and Dimerization Properties of Cup- and Bowl-shaped Cyclic Trilactams. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 947-952.	2.7	2
49	Pyridine Ring Modification of Indane-1,3-dione Dimers for Control of their Crystal Structure. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 2690-2696.	2.7	2
50	An Organic Mixed-Valence Ligand for Multistate Redox-Active Coordination Networks. <i>Angewandte Chemie</i> , 2018, 130, 4807-4811.	2.0	0