

# Susumu Kawauchi

## List of Publications by Year in descending order

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50  
papers

842  
citations

623734

14  
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501196

28  
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51  
all docs

51  
docs citations

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times ranked

943  
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#	ARTICLE	IF	CITATIONS
1	Distinct Formation of a Chiral Smectic Phase in Achiral Banana-Shaped Molecules with a Central Core Based on a 2,7-Dihydroxynaphthalene Unit. <i>Journal of the American Chemical Society</i> , 2000, 122, 7441-7448.	13.7	223
2	Triptyceny Sulfide: A Practical and Active Catalyst for Electrophilic Aromatic Halogenation Using <i>N</i> -Halosuccinimides. <i>Journal of the American Chemical Society</i> , 2020, 142, 1621-1629.	13.7	79
3	Copper-Catalyzed Regioselective C-H Amination of Phenol Derivatives with Assistance of Phenanthroline-Based Bidentate Auxiliary. <i>ACS Catalysis</i> , 2019, 9, 5336-5344.	11.2	46
4	Rhodium(III)-Catalyzed Oxidative Coupling of <i>N</i> -Phenylindole-3-carboxylic Acids with Alkenes and Alkynes via C-H and C-H/C-H Bond Cleavage. <i>Journal of Organic Chemistry</i> , 2018, 83, 5639-5649.	8.2	45
5	Dynamic Chirality Control of (Xyl)-BIPHEP Ligands Leading to their Diastereomerically Pure Ru Complexes with a Chiral <i>N</i> -Substituted DPEN. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 284-288.	4.3	44
6	Formal Lossen Rearrangement/[3+2] Annulation Cascade Catalyzed by a Modified Cyclopentadienyl Rh <sup>III</sup> Complex. <i>Chemistry - A European Journal</i> , 2018, 24, 5723-5727.	3.3	42
7	Synthesis, Structures, and Photophysical Properties of Alternating Donor-Acceptor Cycloparaphenylenes. <i>Chemistry - A European Journal</i> , 2017, 23, 7227-7231.	3.3	35
8	<i>N</i> -Methylated Peptide Synthesis via Generation of an Acyl <i>N</i> -Methylimidazolium Cation Accelerated by a Brønsted Acid. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12925-12930.	13.8	31
9	Diphosphination of Arynes with Diphosphines. <i>Organic Letters</i> , 2018, 20, 3670-3673.	4.6	28
10	Precision synthesis of regioregular poly(3-hexylthiophene) with low dispersity using a zincate complex catalyzed by nickel with the ligand of 1,2-bis(dicyclohexylphosphino)ethane. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2287-2296.	2.3	23
11	Mechanistic insights into catalytic linear cross-dimerization between conjugated dienes and styrenes by a ruthenium(0) complex. <i>Journal of Organometallic Chemistry</i> , 2015, 797, 174-184.	1.8	19
12	Rhodium-Catalyzed Cascade Synthesis of Benzofuranylmethylidene-Benzoxasiloles: Elucidating Reaction Mechanism and Efficient Solid-State Fluorescence. <i>Chemistry - A European Journal</i> , 2018, 24, 7161-7171.	3.3	19
13	Iridium-Catalyzed Aerobic Coupling of Salicylaldehydes with Alkynes: A Remarkable Switch of Oxacyclic Product. <i>Chemistry - A European Journal</i> , 2018, 24, 7852-7855.	3.3	15
14	Macrocyclic Metal Complexes Bearing Rigid Polyaromatic Ligands: Synthesis and Catalytic Activity. <i>Chemistry - an Asian Journal</i> , 2020, 15, 356-359.	3.3	15
15	Effect of Benzimidazole Configuration in Polybenzimidazole Chain on Interaction with Phosphoric Acid: A DFT Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 592-603.	2.6	14
16	Synthesis of Alkynylmethylidene-Benzoxasiloles through a Rhodium-Catalyzed Cycloisomerization Involving 1,2-Silicon and 1,3-Carbon Migration. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3004-3008.	13.8	14
17	p- and n-Channel Photothermoelectric Conversion Based on Ultralong Near-Infrared Wavelengths Absorbing Polymers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 542-551.	4.4	14
18	Development of a quantum chemical descriptor expressing aromatic/quinoidal character for designing narrow-bandgap $\pi$ -conjugated polymers. <i>Polymer Chemistry</i> , 2019, 10, 5584-5593.	3.9	12

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19	Rhodium-Catalyzed Annulative Coupling of Isothiazoles with Alkynes through N-S Bond Cleavage. <i>Organic Letters</i> , 2020, 22, 661-665.	4.6	11
20	Internal Rotation of Ester Linkage in Phenyl Benzoate and Hydroxybenzoic Acid Dimer as Models of Aromatic Polyesters Using Density Functional Theory. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 434-440.	1.4	10
21	Synthesis and photovoltaic properties of thieno[3,4- <i>b</i> ]pyrazine or dithieno[3,2- <i>b</i> :3,4- <i>b'</i> :5,6]benzo[1,2- <i>d</i> ]imidazole-containing conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1067-1075.	2.3	9
22	Cationic Chiral Pd-Catalyzed $\alpha$ -Acetylenic Diels-Alder Reaction: Computational Analysis of Reversal in Enantioselectivity. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2842-2846.	3.3	9
23	N-Methylated Peptide Synthesis via Generation of an Acyl N-Methylimidazolium Cation Accelerated by a Brønsted Acid. <i>Angewandte Chemie</i> , 2020, 132, 13025-13030.	2.0	9
24	Atomistic Mechanism of Anisotropic Heat Conduction in the Liquid Crystal 4-Heptyl-4'-cyanobiphenyl: All-Atom Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2020, 124, 881-889.	2.6	8
25	New strategy for synthesising conjugated hexatrienylferrocenes via cross-dimerisation. <i>New Journal of Chemistry</i> , 2021, 45, 14988-14998.	2.8	8
26	Diastereomer Effects on Antiferroelectricity and Ferroelectricity of the Newly Synthesized Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 303, 165-170.	0.3	6
27	Synthesis of a landomycinone skeleton via Masamune-Bergmann cyclization. <i>RSC Advances</i> , 2014, 4, 32241-32248.	3.6	6
28	Mechanistic Insight into Biomass Conversion to Five-membered Lactone Based on Computational and Experimental Analysis. <i>ChemistrySelect</i> , 2017, 2, 591-597.	1.5	5
29	Fluorination and chlorination effects on quinoxalineimides as an electron-deficient building block for n-channel organic semiconductors. <i>RSC Advances</i> , 2019, 9, 10807-10813.	3.6	5
30	Diastereomer Liquid Crystalline CF <sub>3</sub> Molecules: Conformational Probe for (Anti)Ferroelectricity and Spontaneous Resolution of the Racemates. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 346, 41-49.	0.3	4
31	Effects of Conformation of Diastereomer Liquid Crystals on the Preference of Antiferroelectricity. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 328, 131-137.	0.3	3
32	Determination of the n-director direction of low bend-angle banana-shaped molecules by solid-state <sup>13</sup> C NMR. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10418-10427.	5.5	3
33	Design of Fullerene-Free Electron-Acceptor Materials Containing Peryleneimide Units for Solution-Processed Organic Electronic Devices. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1083-1093.	3.2	3
34	Exploration of Unimolecular and Bimolecular Pathways for Nitrile N-Oxide Isomerization to Isocyanate Through Global Reaction Route Mapping Techniques. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6646-6654.	2.4	3
35	Theoretical Investigation of Regioselectivity in the Rh-Catalyzed Coupling Reaction of 3-Phenylthiophene with Styrene. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2998-3004.	2.4	3
36	Improving the Acid and Base Resistance of Polyurethane Using Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900235.	2.2	3

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37	Determining the $Q$ values of polymer radicals and monomers separately through the derivation of an intrinsic $Q$ scheme for radical copolymerization. <i>Polymer Chemistry</i> , 2022, 13, 1116-1129.	3.9	3
38	Face-On Oriented $\pi$ -Conjugated Polymers Containing 1,3,4-Thiadiazole Moiety Investigated with Synchrotron GIXS Measurements: Relationship between Morphology and PSC Performance. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 351-356.	0.3	2
39	Theoretical Clarification of Overall Mechanism in the Cross-Coupling Reaction between Conjugated Diene and Heterocyclic Compound by Ru(0) Catalyst. <i>Journal of Computer Chemistry Japan</i> , 2016, 15, 215-216.	0.1	2
40	Copper-Mediated Decarboxylative C-H Arylation of Phenol Derivatives with ortho-Nitrobenzoic Acids Using Phenanthroline-Based Bidentate Auxiliary. <i>ChemistrySelect</i> , 2019, 4, 11833-11838.	1.5	2
41	Theoretical Investigation of Pd-catalyzed Intramolecular Hydroamination of Allyl Urethane. <i>Journal of Computer Chemistry Japan</i> , 2019, 18, 166-168.	0.1	2
42	Acceleration of Liquid-Crystalline Phase Transition Simulations Using Selectively Scaled and Returned Molecular Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3499-3507.	5.4	1
43	Open clamshell dinuclear palladium ( $\text{Pd}_2$ ) complexes possessing out-of-plane anisotropy. <i>Dalton Transactions</i> , 2020, 49, 2781-2785.	3.3	1
44	Molecular Dynamics Simulation of 4-n-alkyl-4'-cyanobiphenyl (nCB) Using a Full-atom Model. <i>Journal of Computer Chemistry Japan</i> , 2016, 14, 211-212.	0.1	1
45	Theoretical Study of the Isomerization Reaction Mechanism of Nitrile N-Oxide to Isocyanate under Basic Conditions. <i>Journal of Computer Chemistry Japan</i> , 2019, 18, 230-232.	0.1	1
46	Acid Dissociation Constants of the Benzimidazole Unit in the Polybenzimidazole Chain: Configuration Effects. <i>Molecules</i> , 2022, 27, 1064.	3.8	1
47	Frontispiece: Formal Lossen Rearrangement/[3+2] Annulation Cascade Catalyzed by a Modified Cyclopentadienyl RhIII Complex. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
48	Theoretical Investigation of Regioselectivity in the Rh-Catalyzed Coupling Reaction of 3-Phenylthiophene with Styrene. <i>Journal of Computer Chemistry Japan</i> , 2018, 17, 217-218.	0.1	0
49	MD Simulations on Switching Behavior of Bistable Rotaxanes. <i>Journal of Computer Chemistry Japan</i> , 2018, 17, 122-123.	0.1	0
50	Investigation of the Heat Conduction Mechanism of the Cyanobiphenyl Nematic Liquid Crystalline by Nonequilibrium Molecular Dynamics. <i>Journal of Computer Chemistry Japan</i> , 2019, 18, 236-238.	0.1	0