

Takahiro Iwamoto

List of Publications by Year in descending order

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36
papers

3,553
citations

218677

26
h-index

276875

41
g-index

45
all docs

45
docs citations

45
times ranked

1795
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of [8]Cycloparaphenylene from a Square-Shaped Tetranuclear Platinum Complex. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 757-759.	13.8	497
2	Selective and Random Syntheses of [<i>n</i>]Cycloparaphenylenes (<i>n</i> = 8–13) and Size Dependence of Their Electronic Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 8354-8361.	13.7	445
3	Size-Selective Encapsulation of C ₆₀ by [10]Cycloparaphenylene: Formation of the Shortest Fullerene-Peapod. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8342-8344.	13.8	407
4	Organoplatinum-Mediated Synthesis of Cyclic π -Conjugated Molecules: Towards a New Era of Three-Dimensional Aromatic Compounds. <i>Chemical Record</i> , 2014, 14, 84-100.	5.8	204
5	Size- and Orientation-Selective Encapsulation of C ₇₀ by Cycloparaphenylenes. <i>Chemistry - A European Journal</i> , 2013, 19, 14061-14068.	3.3	197
6	Size-dependent fluorescence properties of [<i>n</i>]cycloparaphenylenes (<i>n</i> = 8–13), hoop-shaped π -conjugated molecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14585.	2.8	150
7	Synthesis and physical properties of a ball-like three-dimensional π -conjugated molecule. <i>Nature Communications</i> , 2013, 4, 2694.	12.8	139
8	Synthesis, Characterization, and Properties of [4]Cyclo[2,7]pyrenylene: Effects of Cyclic Structure on the Electronic Properties of Pyrene Oligomers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6430-6434.	13.8	138
9	Partial Charge Transfer in the Shortest Possible Metallofullerene Peapod, La@C ₈₂ [11]Cycloparaphenylene. <i>Chemistry - A European Journal</i> , 2014, 20, 14403-14409.	3.3	118
10	Selective Synthesis of [6]-, [8]-, and [10]Cycloparaphenylenes. <i>Chemistry Letters</i> , 2013, 42, 621-623.	1.3	100
11	Properties of Sizeable [<i>n</i>]Cycloparaphenylenes as Molecular Models of Single-Wall Carbon Nanotubes Elucidated by Raman Spectroscopy: Structural and Electron-Transfer Responses under Mechanical Stress. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7033-7037.	13.8	77
12	DFT and AFIR Study on the Mechanism and the Origin of Enantioselectivity in Iron-Catalyzed Cross-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 16117-16125.	13.7	74
13	Shortest Double-Walled Carbon Nanotubes Composed of Cycloparaphenylenes. <i>ChemPlusChem</i> , 2017, 82, 1015-1020.	2.8	61
14	Properties of Triplet-Excited [<i>n</i>]Cycloparaphenylenes (<i>n</i> = 8–12): Excitation Energies Lower than Those of Linear Oligomers and Polymers. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4527-4532.	2.5	56
15	Iron-catalysed enantioselective Suzuki-Miyaura coupling of racemic alkyl bromides. <i>Chemical Communications</i> , 2019, 55, 1128-1131.	4.1	56
16	Synthesis, Characterization, and Properties of [4]Cyclo[2,7]pyrenylene: Effects of Cyclic Structure on the Electronic Properties of Pyrene Oligomers. <i>Angewandte Chemie</i> , 2014, 126, 6548-6552.	2.0	54
17	Electron Transfer in a Supramolecular Associate of a Fullerene Fragment. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2170-2175.	13.8	52
18	Enhancement of the Quinoidal Character for Smaller [<i>n</i>]Cycloparaphenylenes Probed by Raman Spectroscopy. <i>ChemPhysChem</i> , 2013, 14, 1570-1572.	2.1	49

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19	Radical Ions of Cycloparaphenylenes: Size Dependence Contrary to the Neutral Molecules. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2302-2305.	4.6	48
20	Ligand-Controlled Synthesis of [3]- and [4]Cyclo[9,9]-dimethyl[2,7]-fluorenes through Triangle- and Square-Shaped Platinum Intermediates. <i>Chemistry - A European Journal</i> , 2015, 21, 18939-18943.	3.3	48
21	Investigation of Organoiron Catalysis in Kumada-Tamoa-Corriu-Type Cross-Coupling Reaction Assisted by Solution-Phase X-ray Absorption Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 410-418.	3.2	46
22	Iron Fluoride/N-Heterocyclic Carbene Catalyzed Cross Coupling between Deactivated Aryl Chlorides and Alkyl Grignard Reagents with or without \hat{I}^2 -Hydrogens. <i>Synthesis</i> , 2015, 47, 1733-1740.	2.3	35
23	Iron-Catalyzed <i>anti</i> -Selective Carbosilylation of Internal Alkynes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13298-13301.	13.8	35
24	Chameleon-like behaviour of cyclo[n]paraphenylenes in complexes with C_{70} : on their impressive electronic and structural adaptability as probed by Raman spectroscopy. <i>Faraday Discussions</i> , 2014, 173, 157-171.	3.2	30
25	Ruthenium-Porphyrin-Catalyzed [4 + 2] Cycloaddition of \hat{I}^{\pm} , \hat{I}^2 -Unsaturated Imines and Aldehydes. <i>Organic Letters</i> , 2015, 17, 5284-5287.	4.6	19
26	ONO-pincer ruthenium complex-bound norvaline for efficient catalytic oxidation of methoxybenzenes with hydrogen peroxide. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7468-7479.	2.8	17
27	Iron-Catalyzed Cross Coupling of Aryl Chlorides with Alkyl Grignard Reagents: Synthetic Scope and FeII/FeIV Mechanism Supported by X-ray Absorption Spectroscopy and Density Functional Theory Calculations. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 381-390.	3.2	16
28	Regio- and Diastereoselective Nickel-Catalyzed Cycloaddition of Activated Cyclopropanes with Allenes. <i>Synlett</i> , 2014, 25, 2281-2284.	1.8	13
29	Radical Ions of Cyclopyrenylene: Comparison of Spectral Properties with Cycloparaphenylene. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4136-4141.	2.5	8
30	Effect of co-managing organic waste using municipal wastewater and solid waste treatment systems in megacities. <i>Water Science and Technology</i> , 2014, 69, 1159-1166.	2.5	6
31	Iron-Catalyzed <i>anti</i> -Selective Carbosilylation of Internal Alkynes. <i>Angewandte Chemie</i> , 2017, 129, 13483-13486.	2.0	6
32	Endergonic addition of <i>N</i> -methylamines to aromatic ketones driven by photochemical offset of the entropic cost. <i>Chemical Communications</i> , 2019, 55, 11683-11686.	4.1	5
33	Development of P- and N-Chirogenic Ligands Based on Chiral Induction from a Phosphorus Donor to a Nitrogen Donor in Palladium Complexes. <i>Organometallics</i> , 2020, 39, 1672-1677.	2.3	5
34	New Organic Chemistry of Three-Dimensional π -Conjugated Compounds. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2014, 72, 992-1005.	0.1	5
35	Experimental Observation of \hat{I}^2 -Carbon Elimination from Alkenylrhodium Complexes through Exchange Reactions of the Alkenyl Unit. <i>Organometallics</i> , 2022, 41, 182-186.	2.3	3
36	Metalated Amino Acids and Peptides: A Key Functional Platform for Applications to Controlled Metal Array Fabrication and Supramolecular Catalysts. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2018, 76, 1010-1023.	0.1	0