

Taisuke Matsuno

List of Publications by Year in descending order

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46
papers

1,408
citations

361413

20
h-index

330143

37
g-index

50
all docs

50
docs citations

50
times ranked

1190
citing authors

#	ARTICLE	IF	CITATIONS
1	[Cu(dap) ₂ Cl] As an Efficient Visible-Light-Driven Photoredox Catalyst in Carbon-Carbon Bond-Forming Reactions. <i>Chemistry - A European Journal</i> , 2012, 18, 7336-7340.	3.3	286
2	Bottom-up synthesis and structures of π -lengthened tubular macrocycles. <i>Chemical Science</i> , 2013, 4, 3179.	7.4	127
3	Molecular recognition in curved π -systems: effects of π -lengthening of tubular molecules on thermodynamics and structures. <i>Chemical Science</i> , 2015, 6, 909-916.	7.4	72
4	Concyclic CH- π arrays for single-axis rotations of a bowl in a tube. <i>Nature Communications</i> , 2018, 9, 3779.	12.8	59
5	Geometric measures of finite carbon nanotube molecules: a proposal for length index and filling indexes. <i>Pure and Applied Chemistry</i> , 2014, 86, 489-495.	1.9	55
6	Synthesis and Chiral Resolution of Twisted Carbon Nanobelts. <i>Journal of the American Chemical Society</i> , 2021, 143, 15924-15929.	13.7	55
7	Illusory Molecular Expression of "Penrose Stairs" by an Aromatic Hydrocarbon. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6048-6051.	13.8	52
8	Stereoisomerism and Structures of Rigid Cylindrical Cycloarylenes. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 907-921.	3.2	49
9	Concise Synthesis of Halogenated Chrysenes ([4]Phenacenes) that Favor π -Stack Packing in Single Crystals. <i>Organic Letters</i> , 2009, 11, 4026-4028.	4.6	47
10	Ratchet-free solid-state inertial rotation of a guest ball in a tight tubular host. <i>Nature Communications</i> , 2018, 9, 1907.	12.8	43
11	Narrowing Segments of Helical Carbon Nanotubes with Curved Aromatic Panels. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7385-7389.	13.8	42
12	Pentagon-Embedded Cycloarylenes with Cylindrical Shapes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9106-9110.	13.8	40
13	Self-Sorting of Two Hydrocarbon Receptors with One Carbonaceous Ligand. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15339-15343.	13.8	38
14	Iridium-catalyzed direct borylation of phenacenes. <i>Tetrahedron Letters</i> , 2012, 53, 1180-1182.	1.4	31
15	Assembly, Thermodynamics, and Structure of a Two-Wheeled Composite of a Dumbbell-Shaped Molecule and Cylindrical Molecules with Different Edges. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15020-15024.	13.8	30
16	Self-Sorting of Two Hydrocarbon Receptors with One Carbonaceous Ligand. <i>Angewandte Chemie</i> , 2016, 128, 15565-15569.	2.0	26
17	Benzidine/Quinoidal-Benzidine-Linked, Superbenzene-Based π -Conjugated Chiral Macrocyces and Cyclophanes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9727-9735.	13.8	25
18	Assembly, Thermodynamics, and Structure of a Two-Wheeled Composite of a Dumbbell-Shaped Molecule and Cylindrical Molecules with Different Edges. <i>Angewandte Chemie</i> , 2017, 129, 15216-15220.	2.0	22

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19	Manipulations of Chiroptical Properties in Belt-Persistent Cycloarylenes via Desymmetrization with Heteroatom Doping. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19097-19101.	13.8	22
20	Unbiased Rotational Motions of an Ellipsoidal Guest in a Tight Yet Pliable Host. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2040-2044.	13.8	21
21	Synthesis and Dynamic Structures of a Hybrid Nanohoop Molecule Composed of Anthanthrenylene and Phenylene Panels. <i>Chemistry Letters</i> , 2015, 44, 1581-1583.	1.3	19
22	Pentagon-Embedded Cycloarylenes with Cylindrical Shapes. <i>Angewandte Chemie</i> , 2017, 129, 9234-9238.	2.0	18
23	Retarded Solid-State Rotations of an Oval-Shaped Guest in a Deformed Cylinder with CH ₂ Arrays. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12170-12174.	13.8	18
24	Narrowing Segments of Helical Carbon Nanotubes with Curved Aromatic Panels. <i>Angewandte Chemie</i> , 2019, 131, 7463-7467.	2.0	16
25	Fused Quinoidal Dithiophene-Based Helicenes: Synthesis by Intramolecular Radical-Radical Coupling Reactions and Dynamics of Interconversion of Enantiomers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10326-10333.	13.8	16
26	Modulation of Energy Conversion Processes in Carbonaceous Molecular Bearings. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2404-2410.	3.3	15
27	Singly and Triply Linked Magnetic Porphyrin Lanthanide Arrays. <i>Journal of the American Chemical Society</i> , 2022, 144, 8693-8706.	13.7	13
28	Enhanced yet Inverted Effects of π -Extension in Self-Assembly of Curved π -Systems with Helicity. <i>Organic Letters</i> , 2017, 19, 6456-6459.	4.6	12
29	Unbiased Rotational Motions of an Ellipsoidal Guest in a Tight Yet Pliable Host. <i>Angewandte Chemie</i> , 2019, 131, 2062-2066.	2.0	12
30	A hybrid molecular peapod of sp ² - and sp ³ -nanocarbons enabling ultrafast terahertz rotations. <i>Nature Communications</i> , 2021, 12, 5062.	12.8	12
31	Retarded Solid-State Rotations of an Oval-Shaped Guest in a Deformed Cylinder with CH ₂ Arrays. <i>Angewandte Chemie</i> , 2019, 131, 12298-12302.	2.0	10
32	Metal-Templated Oligomeric Macrocyclization via Coupling for Metal-Doped π -Systems. <i>Journal of the American Chemical Society</i> , 2021, 143, 15017-15021.	13.7	10
33	Stereoselectivity in spontaneous assembly of rolled incommensurate carbon bilayers. <i>Nature Communications</i> , 2021, 12, 1575.	12.8	9
34	Manipulations of Chiroptical Properties in Belt-Persistent Cycloarylenes via Desymmetrization with Heteroatom Doping. <i>Angewandte Chemie</i> , 2021, 133, 19245-19249.	2.0	9
35	A Defective Nanotube Molecule of C ₅₅₂ H ₄₉₆ N ₂₄ with Pyridinic and Pyrrolic Nitrogen Atoms. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
36	Ineffective OH Pinning of the Flipping Dynamics of a Spherical Guest within a Tight-Fitting Tube. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14570-14576.	13.8	6

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37	Regulated Singleâ€Axis Rotations of a Carbonaceous Guest in a vanâ€der Waals Complex with an Entropy Cost. <i>Chemistry - an Asian Journal</i> , 2020, 15, 273-278.	3.3	5
38	Benzidine/Quinoidalâ€Benzidineâ€Linked, Superbenzeneâ€Based Ĩâ€Conjugated Chiral Macrocycles and Cyclophanes. <i>Angewandte Chemie</i> , 2020, 132, 9814-9822.	2.0	5
39	Activation of Positive Cooperativity by Sizeâ€Mismatch Assembly via Inclination of Guests in a Singleâ€Site Receptor. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	5
40	Ineffective OH Pinning of the Flipping Dynamics of a Spherical Guest within a Tightâ€Fitting Tube. <i>Angewandte Chemie</i> , 2020, 132, 14678-14684.	2.0	4
41	A Case Study of Stereoisomerism with [6]Cyclo[4]helicenylenes. <i>Chemistry Letters</i> , 2021, 50, 110-112.	1.3	4
42	A Defective Nanotube Molecule of C₅₅₂H₄₉₆N₂₄ with Pyridinic and Pyrrolic Nitrogen Atoms. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
43	Crystalline Naphthylene Macrocycles Capturing Gaseous Small Molecules in Chiral Nanopores. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3829-3835.	3.3	3
44	Fused Quinoidal Dithiopheneâ€Based Helicenes: Synthesis by Intramolecular Radicalâ€Radical Coupling Reactions and Dynamics of Interconversion of Enantiomers. <i>Angewandte Chemie</i> , 2021, 133, 10414-10421.	2.0	3
45	2,11-Dibromo-5,8-dibutyl[4]helicene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o1239-o1239.	0.2	2
46	A large-bore chiral cylindrical molecule prone to radial deformations. <i>Tetrahedron Letters</i> , 2022, , 153774.	1.4	2