

Michael Mastalerz

List of Publications by Year in descending order

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122
papers

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61984

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56724

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137
all docs

137
docs citations

137
times ranked

4274
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic cage compounds "from shape-persistency to function. Chemical Society Reviews, 2014, 43, 1934-1947.	38.1	551
2	Rational Construction of an Extrinsic Porous Molecular Crystal with an Extraordinary High Specific Surface Area. Angewandte Chemie - International Edition, 2012, 51, 5252-5255.	13.8	445
3	Shape-Persistent Organic Cage Compounds by Dynamic Covalent Bond Formation. Angewandte Chemie - International Edition, 2010, 49, 5042-5053.	13.8	386
4	A Salicylbisimine Cage Compound with High Surface Area and Selective CO ₂ /CH ₄ Adsorption. Angewandte Chemie - International Edition, 2011, 50, 1046-1051.	13.8	377
5	A Permanent Mesoporous Organic Cage with an Exceptionally High Surface Area. Angewandte Chemie - International Edition, 2014, 53, 1516-1520.	13.8	363
6	Porous Shape-Persistent Organic Cage Compounds of Different Size, Geometry, and Function. Accounts of Chemical Research, 2018, 51, 2411-2422.	15.6	272
7	Permanent Porous Materials from Discrete Organic Molecules"Towards Ultra-High Surface Areas. Chemistry - A European Journal, 2012, 18, 10082-10091.	3.3	201
8	Porous Organic Cage Compounds as Highly Potent Affinity Materials for Sensing by Quartz Crystal Microbalances. Advanced Materials, 2012, 24, 6049-6052.	21.0	200
9	A Shape-Persistent Quadruply Interlocked Giant Cage Catenane with Two Distinct Pores in the Solid State. Angewandte Chemie - International Edition, 2014, 53, 5126-5130.	13.8	194
10	The Next Generation of Shape-Persistent Zeolite Analogues: Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2008, 47, 445-447.	13.8	175
11	One-pot synthesis of a shape-persistent endo-functionalised nano-sized adamantoid compound. Chemical Communications, 2008, , 4756.	4.1	168
12	Chiral Self-Sorting of [2+3] Salicylimine Cage Compounds. Angewandte Chemie - International Edition, 2017, 56, 1244-1248.	13.8	153
13	Periphery-Substituted [4+6] Salicylbisimine Cage Compounds with Exceptionally High Surface Areas: Influence of the Molecular Structure on Nitrogen Sorption Properties. Chemistry - A European Journal, 2012, 18, 836-847.	3.3	148
14	Post-Modification of the Interior of Porous Shape-Persistent Organic Cage Compounds. Angewandte Chemie - International Edition, 2013, 52, 3611-3615.	13.8	138
15	A Pyrene-Fused <i>N</i> -Heteroacene with Eleven Rectilinearly Annulated Aromatic Rings. Angewandte Chemie - International Edition, 2015, 54, 6051-6056.	13.8	113
16	Exo-Functionalized Shape-Persistent [2+3] Cage Compounds: Influence of Molecular Rigidity on Formation and Permanent Porosity. Chemistry - A European Journal, 2012, 18, 4156-4160.	3.3	106
17	Contorted Polycyclic Aromatic Hydrocarbons with Two Embedded Azulene Units. Angewandte Chemie - International Edition, 2019, 58, 17577-17582.	13.8	98
18	A shape-persistent exo-functionalized [4 + 6] imine cage compound with a very high specific surface area. Chemical Communications, 2012, 48, 9861.	4.1	90

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19	Rigid π -Extended Triptycenes via a Hexaketone Precursor. <i>Organic Letters</i> , 2014, 16, 704-707.	4.6	84
20	Synthesis of a Rigid C_3 -Symmetric Trisalicylaldehyde as a Precursor for a Highly Porous Molecular Cube. <i>Chemistry - A European Journal</i> , 2014, 20, 16707-16720.	3.3	83
21	Direct gravimetric sensing of GBL by a molecular recognition process in organic cage compounds. <i>Chemical Communications</i> , 2013, 49, 8398.	4.1	80
22	Chiral Self-Sorting of [2+3] Salicylimine Cage Compounds. <i>Angewandte Chemie</i> , 2017, 129, 1264-1268.	2.0	78
23	A Conformationally Stable Contorted Hexabenzoovalene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15594-15598.	13.8	74
24	Chirality-Assisted Synthesis of a Very Large Octameric Hydrogen-Bonded Capsule. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15599-15603.	13.8	72
25	A Chiral Polycyclic Aromatic Hydrocarbon Monkey Saddle. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 270-274.	13.8	71
26	Chiral Self-Sorting of Giant Cubic [8+12] Salicylimine Cage Compounds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8896-8904.	13.8	70
27	Crystal Structures of a Molecule Designed Not To Pack Tightly. <i>Chemistry - A European Journal</i> , 2015, 21, 17308-17313.	3.3	66
28	Shape-Persistent [4+4] Imine Cages with a Truncated Tetrahedral Geometry. <i>Chemistry - A European Journal</i> , 2018, 24, 1816-1820.	3.3	60
29	Transformation of a [4+6] Salicylbisimine Cage to Chemically Robust Amide Cages. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8819-8823.	13.8	58
30	Facile Synthetic Approach to a Large Variety of Soluble Diarenoperylene. <i>Chemistry - A European Journal</i> , 2016, 22, 14840-14845.	3.3	56
31	Building large supramolecular nanocapsules with europium cations. <i>Chemical Communications</i> , 2012, 48, 1281-1283.	4.1	55
32	Transforming a chemically labile [2+3] imine cage into a robust carbamate cage. <i>Chemical Communications</i> , 2017, 53, 8616-8619.	4.1	54
33	Transformation of Imine Cages into Hydrocarbon Cages. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1768-1773.	13.8	53
34	A Robust Porous Quinoline Cage: Transformation of a [4+6] Salicylimine Cage by Povarov Cyclization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19675-19679.	13.8	52
35	Conjugated Oligothieryl Dendrimers Based on a Pyrazino[2,3- <i>g</i>]quinoxaline Core. <i>Organic Letters</i> , 2009, 11, 4500-4503.	4.6	51
36	Contorted Polycyclic Aromatic Hydrocarbons with Two Embedded Azulene Units. <i>Angewandte Chemie</i> , 2019, 131, 17741-17746.	2.0	48

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37	Shape-Persistent Tetrahedral [4+6] Boronic Ester Cages with Different Degrees of Fluoride Substitution. <i>Chemistry - A European Journal</i> , 2018, 24, 11438-11443.	3.3	47
38	Two-Step Synthesis of Hexaammonium Triptycene: An Air-Stable Building Block for Condensation Reactions to Extended Triptycene Derivatives. <i>Journal of Organic Chemistry</i> , 2011, 76, 6389-6393.	3.2	45
39	Metal-assisted salphen organic frameworks (MaSOFs) with high surface areas and narrow pore-size distribution. <i>Chemical Communications</i> , 2012, 48, 130-132.	4.1	45
40	Attractive Dispersion Interactions Versus Steric Repulsion of <i>tert</i> -Butyl groups in the Crystal Packing of a <i>D</i> _{3h} -Symmetric Tris(quinoxalinophenanthrophenazine). <i>Chemistry - A European Journal</i> , 2016, 22, 646-655.	3.3	43
41	Benzo-Fused Perylene Oligomers with up to 13 Linearly Annulated Rings. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7941-7946.	13.8	41
42	A Conformationally Stable Contorted Hexabenzoovalene. <i>Angewandte Chemie</i> , 2016, 128, 15823-15827.	2.0	40
43	Modular Synthesis of Shape-Persistent Organic Cage Compounds: Molecular Precursors for a New Class of Permanent Porous Materials. <i>Synlett</i> , 2013, 24, 781-786.	1.8	38
44	Liquefied molecular holes. <i>Nature</i> , 2015, 527, 174-175.	27.8	35
45	π -Extended rigid triptycene-trisaroylenimidazoles as electron acceptors. <i>Chemical Communications</i> , 2016, 52, 1048-1051.	4.1	35
46	Rigid Conjugated Twisted Truxene Dimers and Trimers as Electron Acceptors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3977-3981.	13.8	34
47	Synthesis of Triphenylene-Based Triptycenes via Suzuki-Miyaura Cross-Coupling and Subsequent Scholl Reaction. <i>Journal of Organic Chemistry</i> , 2015, 80, 9342-9348.	3.2	33
48	Examination of the Dynamic Covalent Chemistry of [2 + 3]-Imine Cages. <i>Journal of Organic Chemistry</i> , 2020, 85, 13757-13771.	3.2	33
49	Highly Selective Adsorption of Perfluorinated Greenhouse Gases by Porous Organic Cages. <i>Advanced Materials</i> , 2022, 34, .	21.0	33
50	Uniform porous nanospheres of discrete shape-persistent organic cage compounds. <i>Journal of Materials Chemistry</i> , 2012, 22, 7113.	6.7	31
51	Chirality-Assisted Synthesis of a Very Large Octameric Hydrogen-Bonded Capsule. <i>Angewandte Chemie</i> , 2016, 128, 15828-15832.	2.0	31
52	Functionalized Contorted Polycyclic Aromatic Hydrocarbons by a One-Step Cyclopentannulation and Regioselective Triflyloxylation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10650-10654.	13.8	30
53	Fused π -Extended Truxenes via a Threefold Borylation as the Key Step. <i>Chemistry - A European Journal</i> , 2016, 22, 3084-3093.	3.3	29
54	Synthesis of Tetrahedral Shape-Persistent Tetranuclear Metal-salpens. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5971-5980.	2.4	28

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55	Synthesis and Chiral Resolution of C_3 -Symmetric Tribenzotriquinacenes. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4470-4472.	2.4	27
56	Triptycene-Based Porous Metal-Assisted Salphen Organic Frameworks: Influence of the Metal Ions on Formation and Gas Sorption. <i>Chemistry of Materials</i> , 2018, 30, 2781-2790.	6.7	27
57	An Isosteric Triaza Analogue of a Polycyclic Aromatic Hydrocarbon Monkey Saddle. <i>Chemistry - A European Journal</i> , 2020, 26, 14560-14564.	3.3	25
58	Chiral Self-Sorting of Giant Cubic [8+12] Salicylimine Cage Compounds. <i>Angewandte Chemie</i> , 2021, 133, 8978-8986.	2.0	25
59	A Chiral Polycyclic Aromatic Hydrocarbon Monkey Saddle. <i>Angewandte Chemie</i> , 2020, 132, 276-280.	2.0	24
60	Homoconjugation and Intramolecular Charge Transfer in Extended Aromatic Triptycenes with Different π -Planes. <i>Journal of Organic Chemistry</i> , 2020, 85, 15256-15272.	3.2	24
61	Triptycene End-Capped Quinoxalinophenanthrophenazines (QPPs): Influence of Substituents and Conditions on Aggregation in the Solid State. <i>Chemistry - A European Journal</i> , 2019, 25, 11121-11134.	3.3	23
62	A Series of Soluble Thieno-Fused Coronene Nanoribbons of Precise Lengths. <i>Journal of the American Chemical Society</i> , 2022, 144, 9883-9892.	13.7	23
63	Switching the Statistical C_3/C_1 Ratio in the Threefold Aromatic Substitution of Tribenzotriquinacenes towards the C_3 Isomer. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11321-11324.	13.8	22
64	K π -Region-Extended [c]Heteroannulated Pyrenes. <i>Chemistry - A European Journal</i> , 2017, 23, 17817-17822.	3.3	21
65	Transformation of a [4+6] Salicylbisimine Cage to Chemically Robust Amide Cages. <i>Angewandte Chemie</i> , 2019, 131, 8911-8915.	2.0	21
66	Transformation of Imine Cages into Hydrocarbon Cages. <i>Angewandte Chemie</i> , 2019, 131, 1782-1787.	2.0	20
67	Substrate-Directed Growth of N-Heteropolycyclic Molecules on a Metal Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2866-2873.	3.1	19
68	Boroquinol Complexes with Fused Extended Aromatic Backbones: Synthesis and Optical Properties. <i>Chemistry - A European Journal</i> , 2017, 23, 935-945.	3.3	18
69	Bright, stable, and efficient red light-emitting electrochemical cells using contorted nanographenes. <i>Nanoscale Horizons</i> , 2020, 5, 473-480.	8.0	18
70	A Giant [8+12] Boronic Ester Cage with 48 Terminal Alkene Units in the Periphery for Postsynthetic Alkene Metathesis. <i>Chemistry - A European Journal</i> , 2021, 27, 233-237.	3.3	18
71	Rational Design of Multifunctional Nanopores by Mixing Matching Molecules. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 584-586.	13.8	17
72	Cata-Condensed Heteroannulated Coronenes via Selective Bromination of Diarenoperylenes as the Key Step. <i>Organic Letters</i> , 2018, 20, 7270-7273.	4.6	17

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73	Soluble Congeners of Prior Insoluble Shape-Persistent Imine Cages. <i>Chemistry - A European Journal</i> , 2021, 27, 9383-9390.	3.3	17
74	Single-Handed Towards Nanosized Organic Molecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 45-47.	13.8	16
75	Planar versus triptycene end-capped aroyleneimidazoles as electron acceptors in organic photovoltaics. <i>Organic Chemistry Frontiers</i> , 2017, 4, 834-838.	4.5	16
76	Discrete Triptycene-Based Hexakis(metalsalphen)s: Extrinsic Soluble Porous Molecules of Isostructural Constitution. <i>Chemistry - A European Journal</i> , 2018, 24, 11433-11437.	3.3	16
77	A Robust Porous Quinoline Cage: Transformation of a [4+6] Salicylimine Cage by Povarov Cyclization. <i>Angewandte Chemie</i> , 2020, 132, 19843-19847.	2.0	16
78	Triptycene-trisaryleneimidazoles as non-fullerene acceptors – Influence of side-chains on solubility, device morphology and performance. <i>Organic Electronics</i> , 2017, 47, 211-219.	2.6	15
79	Metal-Assisted Salphen Organic Frameworks (MaSOFs) with Trinuclear Metal Units for Synergic Gas Sorption. <i>Chemistry of Materials</i> , 2019, 31, 6210-6223.	6.7	15
80	Triptycene End-Capping as Strategy in Materials Chemistry to Control Crystal Packing and Increase Solubility. <i>Chemical Record</i> , 2021, 21, 558-573.	5.8	15
81	Gulf-Selective Postsynthetic Functionalization of a Soluble Hexabenzoovalene. <i>Chemistry - A European Journal</i> , 2018, 24, 8751-8755.	3.3	14
82	Benzopyrano-Fused N-Heterocyclic Polyaromatics. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 532-536.	2.4	14
83	Switching the Statistical C_3/C_1 Ratio in the Threefold Aromatic Substitution of Tribenzotriquinacenes towards the C_3 Isomer. <i>Angewandte Chemie</i> , 2018, 130, 11491-11494.	2.0	14
84	Functionalized Contorted Polycyclic Aromatic Hydrocarbons by a One-Step Cyclopentannulation and Regioselective Triflyloxylolation. <i>Angewandte Chemie</i> , 2019, 131, 10760-10764.	2.0	14
85	Microporous Triptycene-Based Affinity Materials on Quartz Crystal Microbalances for Tracing of Illicit Compounds. <i>ChemPlusChem</i> , 2019, 84, 1239-1244.	2.8	14
86	2,7,11,16-Tetra-tert-Butyl Tetraindenopyrene Revisited by an Inverse-Synthetic Approach. <i>Chemistry - A European Journal</i> , 2020, 26, 10585-10590.	3.3	14
87	Quinoxalinophenanthrophenazines (QPPs) and Hexabenzoovalenes (HBOs) – Proving the Solubility Enhancement by Triptycene End-Capping. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4891-4896.	2.4	13
88	Selective Even-Numbered Bromination of Triptycene Tris(thiadiazoles). <i>Organic Letters</i> , 2014, 16, 5596-5599.	4.6	12
89	Rigid Conjugated Twisted Truxene Dimers and Trimers as Electron Acceptors. <i>Angewandte Chemie</i> , 2016, 128, 4045-4049.	2.0	12
90	Hydrogen-Bonded Chains and Networks of Triptycene-Based Triboronic Acid and Tripyridinone. <i>Crystal Growth and Design</i> , 2016, 16, 5542-5548.	3.0	12

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91	A Triptycene-Based Enantiopure Bis(Diazadibenzoanthracene) by a Chirality-Assisted Synthesis Approach. Chemistry - A European Journal, 2020, 26, 16036-16042.	3.3	12
92	Solvent-Controlled Racemic Resolution of C_3 -Symmetric Trihydroxytribenzotriquinacenes. Journal of Organic Chemistry, 2020, 85, 3981-3989.	3.2	12
93	Host-Guest Chemistry of Truncated Tetrahedral Imine Cages with Ammonium Ions. ChemistryOpen, 2020, 9, 183-190.	1.9	12
94	Di- and Tetracyano-Substituted Pyrene-Fused Pyrazaacenes: Aggregation in the Solid State. Chemistry - A European Journal, 2020, 26, 11634-11642.	3.3	11
95	Benzo-Fused Perylene Oligomers with up to 13 Linearly Annulated Rings. Angewandte Chemie, 2021, 133, 8020-8025.	2.0	11
96	Efficient, Scalable Syntheses of Important Intermediates in Tribenzotriquinacene Chemistry. Synthesis, 2015, 47, 3846-3848.	2.3	10
97	Metal Salen- and Salphen-Containing Organic Polymers: Synthesis and Applications. Organic Materials, 2020, 02, 182-203.	2.0	10
98	Synthesis and Optoelectronic Properties of a Quinoxalino-Phenanthrophenazine (QPP) Extended Tribenzotriquinacene (TBTQ). Chemistry - A European Journal, 2021, 27, 2043-2049.	3.3	10
99	Covalent crystal growth. Nature Chemistry, 2013, 5, 810-811.	13.6	9
100	Synthesis of <i>para</i> -Aryl-Substituted Salicyldialdehydes. European Journal of Organic Chemistry, 2015, 2015, 3274-3285.	2.4	9
101	Triptycene End-Capped Quinoxalinophenanthrophenazines with Aromatic Substituents – Synthesis, Characterization, and Single-Crystal Structure Analysis. Organic Materials, 2019, 01, 050-062.	2.0	9
102	Optical Properties and Sequence Information of Tin-Centered Conjugated Microporous Polymers. Chemistry - A European Journal, 2018, 24, 1674-1680.	3.3	8
103	Pyridoxycalix[4]arene palladium(II) complexes as tectons for self-inclusion polymers. CrystEngComm, 2008, 10, 1120.	2.6	7
104	An Oxidative Macrobicyclic Ring Opening of a Triptycene to a Highly Functionalized Fluorene Derivative. Journal of Organic Chemistry, 2015, 80, 8881-8886.	3.2	7
105	Contorted Heteroannulated Tetraareno[a , d , j , m]coronenes. Chemistry - A European Journal, 2021, 27, 14345-14352.	3.3	7
106	Triptycene End-Capped Indigo Derivatives – Turning Insoluble Pigments to Soluble Dyes. European Journal of Organic Chemistry, 2021, 2021, 72-76.	2.4	7
107	Supramolecular single-stranded calix[4]arene helices – towards a crystal engineering approach of homochiral assemblies. CrystEngComm, 2011, 13, 3979.	2.6	6
108	Proving Triptycene Homoconjugation with the Same Chromophore but Different Connectivity to the Core. Organic Materials, 2021, 03, 097-102.	2.0	6

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109	Triptyceneâ€Bis(aryleneimidazole)s as Nonâ€Fullerene Acceptors: The Missing Links. ChemPlusChem, 2017, 82, 1390-1395.	2.8	5
110	Ln(<i>iii</i>) complexes with triptycene based tripodal ligands: speciation and equilibria. New Journal of Chemistry, 2018, 42, 7803-7809.	2.8	5
111	Cucurbitimines â€ imine cages with concave walls. Organic Chemistry Frontiers, 2021, 8, 3668-3674.	4.5	5
112	Isostructural Charge-Transfer Cocrystals Based on Triptycene End-Capped Quinoxalinophenanthrophenazine. Crystal Growth and Design, 2021, 21, 1329-1341.	3.0	5
113	Pyrene-Based Diarynes as Precursors for Twisted Fused Polycyclic Aromatic Hydrocarbons: A Comparison of Two Routes. Organic Materials, 2020, 02, 358-361.	2.0	5
114	Triptycene Endâ€Capped Benzothienobenzothiophene and Naphthothienobenzothiophene. Chemistry - A European Journal, 2020, 26, 12596-12605.	3.3	4
115	Quinoxalinophenanthrophenazine Based Cruciforms. European Journal of Organic Chemistry, 2021, 2021, 4816-4823.	2.4	4
116	Synthesis of Large [2+3] Salicylimine Cages with Embedded Metalâ€Salphen Units. European Journal of Inorganic Chemistry, 0, , .	2.0	3
117	A Hexagonal Shapeâ€Persistent Nanobelt of Elongated Rhombic Symmetry with Orthogonal Ĩâ€Planes by a Oneâ€Pot Reaction. European Journal of Organic Chemistry, 0, , .	2.4	2
118	Inside Back Cover: Rational Construction of an Extrinsic Porous Molecular Crystal with an Extraordinary High Specific Surface Area (Angew. Chem. Int. Ed. 21/2012). Angewandte Chemie - International Edition, 2012, 51, 5257-5257.	13.8	1
119	Desymmetrization Strategy to Achieve Triptyceneâ€Based 3,6â€Dimethoxytriphenylenes via Oxidative Cyclodehydrogenation. European Journal of Organic Chemistry, 2020, 2020, 6255-6258.	2.4	1
120	Tetrapyridoxycalix[4]arene and its copper(II) complex: an ionic crystal engineering tecton for self-inclusion polymers. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2009, 64, 157-161.	1.6	0
121	Innentitelbild: A Conformationally Stable Contorted Hexabenzoovalene (Angew. Chem. 50/2016). Angewandte Chemie, 2016, 128, 15672-15672.	2.0	0
122	A Nickelâ€Salphen Type Complex with a Heteropicene Backbone. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 606-610.	1.2	0