

Michael Mastalerz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127
papers

5,851
citations

38
h-index

74
g-index

137
ext. papers

6,724
ext. citations

7.8
avg, IF

6.82
L-index

#	Paper	IF	Citations
127	Chiral Self-sorting of Giant Cubic [8+12] Salicylimine Cage Compounds. <i>Angewandte Chemie</i> , 2021 , 133, 8978-8986	3.6	8
126	Proving Triptycene Homoconjugation with the Same Chromophore but Different Connectivity to the Core. <i>Organic Materials</i> , 2021 , 03, 097-102	1.9	0
125	Soluble Congeners of Prior Insoluble Shape-Persistent Imine Cages. <i>Chemistry - A European Journal</i> , 2021 , 27, 9383-9390	4.8	5
124	Synthesis and Optoelectronic Properties of a Quinoxalino-Phenanthrophenazine (QPP) Extended Tribenzotriquinacene (TBTQ). <i>Chemistry - A European Journal</i> , 2021 , 27, 2043-2049	4.8	6
123	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	4.8	6
122	Cucurbitimines - imine cages with concave walls. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 3668-3674	5.2	1
121	Benzo-Fused Perylene Oligomers with up to 13 Linearly Annulated Rings. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7941-7946	16.4	14
120	Benzo-Fused Perylene Oligomers with up to 13 Linearly Annulated Rings. <i>Angewandte Chemie</i> , 2021 , 133, 8020-8025	3.6	5
119	Chiral Self-sorting of Giant Cubic [8+12] Salicylimine Cage Compounds. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8896-8904	16.4	25
118	Contorted Heteroannulated Tetraareno[a,d,j,m]coronenes. <i>Chemistry - A European Journal</i> , 2021 , 27, 14345-14352	4.8	2
117	Quinoxalinophenanthrophenazine Based Cruciforms. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 4816-4823	3.2	1
116	Triptycene End-Capping as Strategy in Materials Chemistry to Control Crystal Packing and Increase Solubility. <i>Chemical Record</i> , 2021 , 21, 558-573	6.6	4
115	Isostructural Charge-Transfer Cocrystals Based on Triptycene End-Capped Quinoxalinophenanthrophenazine. <i>Crystal Growth and Design</i> , 2021 , 21, 1329-1341	3.5	3
114	Triptycene End-Capped Indigo Derivatives - Turning Insoluble Pigments to Soluble Dyes. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 72-76	3.2	3
113	Homoconjugation and Intramolecular Charge Transfer in Extended Aromatic Triptycenes with Different π Planes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15256-15272	4.2	13
112	Triptycene End-Capped Benzothienobenzothiophene and Naphthothienobenzothiophene. <i>Chemistry - A European Journal</i> , 2020 , 26, 12596-12605	4.8	3
111	Di- and Tetracyano-Substituted Pyrene-Fused Pyrazaacenes: Aggregation in the Solid State. <i>Chemistry - A European Journal</i> , 2020 , 26, 11634-11642	4.8	6

110	An Isosteric Triaza Analogue of a Polycyclic Aromatic Hydrocarbon Monkey Saddle. <i>Chemistry - A European Journal</i> , 2020 , 26, 14560-14564	4.8	8
109	A Robust Porous Quinoline Cage: Transformation of a [4+6] Salicylimine Cage by Povarov Cyclization. <i>Angewandte Chemie</i> , 2020 , 132, 19843-19847	3.6	10
108	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	16.4	22
107	A Triptycene-Based Enantiopure Bis(Diazadibenzoanthracene) by a Chirality-Assisted Synthesis Approach. <i>Chemistry - A European Journal</i> , 2020 , 26, 16036-16042	4.8	5
106	Solvent-Controlled Racemic Resolution of -Symmetric Trihydroxytribenzotriquinacenes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 3981-3989	4.2	7
105	Host-Guest Chemistry of Truncated Tetrahedral Imine Cages with Ammonium Ions. <i>ChemistryOpen</i> , 2020 , 9, 183-190	2.3	8
104	Pyrene-Based Diarynes as Precursors for Twisted Fused Polycyclic Aromatic Hydrocarbons: A Comparison of Two Routes. <i>Organic Materials</i> , 2020 , 02, 358-361	1.9	0
103	A Chiral Polycyclic Aromatic Hydrocarbon Monkey Saddle. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 270-274	16.4	31
102	Bright, stable, and efficient red light-emitting electrochemical cells using contorted nanographenes. <i>Nanoscale Horizons</i> , 2020 , 5, 473-480	10.8	14
101	A Chiral Polycyclic Aromatic Hydrocarbon Monkey Saddle. <i>Angewandte Chemie</i> , 2020 , 132, 276-280	3.6	18
100	Metal Salen- and Salphen-Containing Organic Polymers: Synthesis and Applications. <i>Organic Materials</i> , 2020 , 02, 182-203	1.9	2
99	Examination of the Dynamic Covalent Chemistry of [2 + 3]-Imine Cages. <i>Journal of Organic Chemistry</i> , 2020 , 85, 13757-13771	4.2	13
98	Desymmetrization Strategy to Achieve Triptycene-Based 3,6-Dimethoxytriphenylenes via Oxidative Cyclodehydrogenation. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 6255-6258	3.2	
97	2,7,11,16-Tetra-tert-Butyl Tetraindenopyrene Revisited by an "Inverse" Synthetic Approach. <i>Chemistry - A European Journal</i> , 2020 , 26, 10585-10590	4.8	5
96	Functionalized Contorted Polycyclic Aromatic Hydrocarbons by a One-Step Cyclopentannulation and Regioselective Triflyloxylation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10650-10654	16.4	19
95	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	4.8	16
94	Quinoxalinophenanthrophenazines (QPPs) and Hexabenzoovalenes (HBOs) [P]roving the Solubility Enhancement by Triptycene End-Capping. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4891-4896	3.2	12
93	Transformation of a [4+6] Salicylbisimine Cage to Chemically Robust Amide Cages. <i>Angewandte Chemie</i> , 2019 , 131, 8911-8915	3.6	11

92	Transformation of a [4+6] Salicylbisimine Cage to Chemically Robust Amide Cages. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8819-8823	16.4	27
91	Microporous Triptycene-Based Affinity Materials on Quartz Crystal Microbalances for Tracing of Illicit Compounds. <i>ChemPlusChem</i> , 2019 , 84, 1239-1244	2.8	9
90	Metal-Assisted Salphen Organic Frameworks (MaSOFs) with Trinuclear Metal Units for Synergic Gas Sorption. <i>Chemistry of Materials</i> , 2019 , 31, 6210-6223	9.6	6
89	Functionalized Contorted Polycyclic Aromatic Hydrocarbons by a One-Step Cyclopentannulation and Regioselective Triflyloxylation. <i>Angewandte Chemie</i> , 2019 , 131, 10760-10764	3.6	11
88	Contorted Polycyclic Aromatic Hydrocarbons with Two Embedded Azulene Units. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17577-17582	16.4	47
87	Contorted Polycyclic Aromatic Hydrocarbons with Two Embedded Azulene Units. <i>Angewandte Chemie</i> , 2019 , 131, 17741-17746	3.6	29
86	Triptycene End-Capped Quinoxalinophenanthrophenazines with Aromatic Substituents: Synthesis, Characterization, and Single-Crystal Structure Analysis. <i>Organic Materials</i> , 2019 , 01, 050-062	1.9	8
85	Transformation of Imine Cages into Hydrocarbon Cages. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1768-1773	16.4	29
84	Transformation of Imine Cages into Hydrocarbon Cages. <i>Angewandte Chemie</i> , 2019 , 131, 1782-1787	3.6	15
83	Gulf-Selective Postsynthetic Functionalization of a Soluble Hexabenzoovalene. <i>Chemistry - A European Journal</i> , 2018 , 24, 8751-8755	4.8	12
82	Shape-Persistent [4+4] Imine Cages with a Truncated Tetrahedral Geometry. <i>Chemistry - A European Journal</i> , 2018 , 24, 1816-1820	4.8	42
81	Benzopyrano-Fused N-Heterocyclic Polyaromatics. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 532-536	3.2	10
80	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	9.6	21
79	Ln(III) complexes with triptycene based tripodal ligands: speciation and equilibria. <i>New Journal of Chemistry</i> , 2018 , 42, 7803-7809	3.6	2
78	Shape-Persistent Tetrahedral [4+6] Boronic Ester Cages with Different Degrees of Fluoride Substitution. <i>Chemistry - A European Journal</i> , 2018 , 24, 11438-11443	4.8	28
77	Optical Properties and Sequence Information of Tin-Centered Conjugated Microporous Polymers. <i>Chemistry - A European Journal</i> , 2018 , 24, 1674-1680	4.8	5
76	Cata-Condensed Heteroannulated Coronenes via Selective Bromination of Diarenoperylenes as the Key Step. <i>Organic Letters</i> , 2018 , 20, 7270-7273	6.2	12
75	Porous Shape-Persistent Organic Cage Compounds of Different Size, Geometry, and Function. <i>Accounts of Chemical Research</i> , 2018 , 51, 2411-2422	24.3	161

74	A Nickel-Salphen Type Complex with a Heteropicene Backbone. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018 , 644, 606-610	1.3	
73	Discrete Triptycene-Based Hexakis(metalsalphens): Extrinsic Soluble Porous Molecules of Isostructural Constitution. <i>Chemistry - A European Journal</i> , 2018 , 24, 11433-11437	4.8	11
72	Switching the Statistical C3/C1 Ratio in the Threefold Aromatic Substitution of Tribenzotriquinacenes towards the C3 Isomer. <i>Angewandte Chemie</i> , 2018 , 130, 11491-11494	3.6	9
71	Switching the Statistical C /C Ratio in the Threefold Aromatic Substitution of Tribenzotriquinacenes towards the C Isomer. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11321-11324	16.4	14
70	Triptycene-trisarylamineimidozoles as non-fullerene acceptors Influence of side-chains on solubility, device morphology and performance. <i>Organic Electronics</i> , 2017 , 47, 211-219	3.5	12
69	Planar versus triptycenylenyl end-capped arylamineimidozoles as electron acceptors in organic photovoltaics. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 834-838	5.2	14
68	Chiral Self-Sorting of [2+3] Salicylimine Cage Compounds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1244-1248	16.4	115
67	Chiral Self-Sorting of [2+3] Salicylimine Cage Compounds. <i>Angewandte Chemie</i> , 2017 , 129, 1264-1268	3.6	62
66	K-Region-Extended [c]-Heteroannulated Pyrenes. <i>Chemistry - A European Journal</i> , 2017 , 23, 17817-17822	4.8	16
65	Triptycene-Bis(arylamineimidozole)s as Non-Fullerene Acceptors: The Missing Links. <i>ChemPlusChem</i> , 2017 , 82, 1390-1395	2.8	3
64	Transforming a chemically labile [2+3] imine cage into a robust carbamate cage. <i>Chemical Communications</i> , 2017 , 53, 8616-8619	5.8	33
63	Boroquinol Complexes with Fused Extended Aromatic Backbones: Synthesis and Optical Properties. <i>Chemistry - A European Journal</i> , 2017 , 23, 935-945	4.8	15
62	A Conformationally Stable Contorted Hexabenzoovalene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15594-15598	16.4	56
61	Facile Synthetic Approach to a Large Variety of Soluble Diarenoperylene. <i>Chemistry - A European Journal</i> , 2016 , 22, 14840-14845	4.8	42
60	Chirality-Assisted Synthesis of a Very Large Octameric Hydrogen-Bonded Capsule. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15599-15603	16.4	57
59	Fused Extended Truxenes via a Threefold Borylation as the Key Step. <i>Chemistry - A European Journal</i> , 2016 , 22, 3084-93	4.8	22
58	Rigid Conjugated Twisted Truxene Dimers and Trimers as Electron Acceptors. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3977-81	16.4	24
57	Single-Handed Towards Nanosized Organic Molecules. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 45-7	16.4	15

56	Substrate-Directed Growth of N-Heteropolycyclic Molecules on a Metal Surface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2866-2873	3.8	15
55	Extended rigid triptycene-tris(arylene)imidazoles as electron acceptors. <i>Chemical Communications</i> , 2016 , 52, 1048-51	5.8	31
54	Attractive Dispersion Interactions Versus Steric Repulsion of tert-Butyl groups in the Crystal Packing of a D _{3h} -Symmetric Tris(quinoxalino)phenanthrophenazine. <i>Chemistry - A European Journal</i> , 2016 , 22, 646-55	4.8	35
53	Rigid Conjugated Twisted Truxene Dimers and Trimers as Electron Acceptors. <i>Angewandte Chemie</i> , 2016 , 128, 4045-4049	3.6	10
52	Chirality-Assisted Synthesis of a Very Large Octameric Hydrogen-Bonded Capsule. <i>Angewandte Chemie</i> , 2016 , 128, 15828-15832	3.6	25
51	Innentitelbild: A Conformationally Stable Contorted Hexabenzoovalene (Angew. Chem. 50/2016). <i>Angewandte Chemie</i> , 2016 , 128, 15672-15672	3.6	
50	Einhändig zu organischen Nanomolekülen. <i>Angewandte Chemie</i> , 2016 , 128, 45-47	3.6	8
49	A Conformationally Stable Contorted Hexabenzoovalene. <i>Angewandte Chemie</i> , 2016 , 128, 15823-15827	3.6	31
48	Synthesis and Chiral Resolution of C ₃ -Symmetric Tribenzotriquinacenes. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 4470-4472	3.2	25
47	Hydrogen-Bonded Chains and Networks of Triptycene-Based Triboronic Acid and Tripyridinone. <i>Crystal Growth and Design</i> , 2016 , 16, 5542-5548	3.5	11
46	An Oxidative Macrocyclic Ring Opening of a Triptycene to a Highly Functionalized Fluorene Derivative. <i>Journal of Organic Chemistry</i> , 2015 , 80, 8881-6	4.2	7
45	Ein Pyren-fusioniertes N-Heteroacen mit elf linear anellierten aromatischen Ringen. <i>Angewandte Chemie</i> , 2015 , 127, 6149-6154	3.6	55
44	Synthesis of para-Aryl-Substituted Salicyldialdehydes. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 3274-3285	3.2	7
43	A pyrene-fused N-heteroacene with eleven rectilinearly annulated aromatic rings. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6051-6	16.4	96
42	Synthesis of Triphenylene-Based Triptycenes via Suzuki-Miyaura Cross-Coupling and Subsequent Scholl Reaction. <i>Journal of Organic Chemistry</i> , 2015 , 80, 9342-8	4.2	27
41	Materials chemistry: Liquefied molecular holes. <i>Nature</i> , 2015 , 527, 174-6	50.4	32
40	Crystal Structures of a Molecule Designed Not To Pack Tightly. <i>Chemistry - A European Journal</i> , 2015 , 21, 17308-13	4.8	53
39	Efficient, Scalable Syntheses of Important Intermediates in Tribenzotriquinacene Chemistry. <i>Synthesis</i> , 2015 , 47, 3846-3848	2.9	5

38	A Shape-Persistent Quadruply Interlocked Giant Cage Catenane with Two Distinct Pores in the Solid State. <i>Angewandte Chemie</i> , 2014 , 126, 5226-5230	3.6	79
37	Rigid Extended triptycenes via a hexaketone precursor. <i>Organic Letters</i> , 2014 , 16, 704-7	6.2	71
36	A permanent mesoporous organic cage with an exceptionally high surface area. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1516-20	16.4	297
35	Selective even-numbered bromination of triptycene tris(thiadiazoles). <i>Organic Letters</i> , 2014 , 16, 5596-9	6.2	9
34	A shape-persistent quadruply interlocked giant cage catenane with two distinct pores in the solid state. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5126-30	16.4	155
33	Organic cage compounds--from shape-persistency to function. <i>Chemical Society Reviews</i> , 2014 , 43, 1934-48	48.5	435
32	A Permanent Mesoporous Organic Cage with an Exceptionally High Surface Area. <i>Angewandte Chemie</i> , 2014 , 126, 1542-1546	3.6	100
31	Synthesis of a rigid C _{3v} -symmetric tris-salicylaldehyde as a precursor for a highly porous molecular cube. <i>Chemistry - A European Journal</i> , 2014 , 20, 16707-20	4.8	71
30	Direct gravimetric sensing of GBL by a molecular recognition process in organic cage compounds. <i>Chemical Communications</i> , 2013 , 49, 8398-400	5.8	68
29	Crystal engineering: Covalent crystal growth. <i>Nature Chemistry</i> , 2013 , 5, 810-1	17.6	8
28	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	2.2	33
27	Post-modification of the interior of porous shape-persistent organic cage compounds. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3611-5	16.4	120
26	Postmodifizierung der Hohlräume poröser formstabiler organischer Käfigverbindungen. <i>Angewandte Chemie</i> , 2013 , 125, 3699-3703	3.6	51
25	Periphery-substituted [4+6] salicylbisimine cage compounds with exceptionally high surface areas: influence of the molecular structure on nitrogen sorption properties. <i>Chemistry - A European Journal</i> , 2012 , 18, 836-47	4.8	137
24	Rational design of multifunctional nanopores by mixing matching molecules. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 584-6	16.4	16
23	Uniform porous nanospheres of discrete shape-persistent organic cage compounds. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7113		30
22	Metal-assisted salphen organic frameworks (MaSOFs) with high surface areas and narrow pore-size distribution. <i>Chemical Communications</i> , 2012 , 48, 130-2	5.8	42
21	A shape-persistent exo-functionalized [4 + 6] imine cage compound with a very high specific surface area. <i>Chemical Communications</i> , 2012 , 48, 9861-3	5.8	74

20	Porous organic cage compounds as highly potent affinity materials for sensing by quartz crystal microbalances. <i>Advanced Materials</i> , 2012 , 24, 6049-52	24	166
19	Building large supramolecular nanocapsules with europium cations. <i>Chemical Communications</i> , 2012 , 48, 1281-3	5.8	48
18	Permanent porous materials from discrete organic molecules-towards ultra-high surface areas. <i>Chemistry - A European Journal</i> , 2012 , 18, 10082-91	4.8	180
17	Rationale Herstellung eines extrinsisch porösen Molekülkristalls mit einer außergewöhnlich großen spezifischen Oberfläche. <i>Angewandte Chemie</i> , 2012 , 124, 5345-5348	3.6	100
16	Rational construction of an extrinsic porous molecular crystal with an extraordinary high specific surface area. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5252-5	16.4	355
15	Inside Back Cover: Rational Construction of an Extrinsic Porous Molecular Crystal with an Extraordinary High Specific Surface Area (Angew. Chem. Int. Ed. 21/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5257-5257	16.4	1
14	Exo-functionalized shape-persistent [2+3] cage compounds: influence of molecular rigidity on formation and permanent porosity. <i>Chemistry - A European Journal</i> , 2012 , 18, 4156-60	4.8	91
13	Supramolecular single-stranded calix[4]arene helices towards a crystal engineering approach of homochiral assemblies. <i>CrystEngComm</i> , 2011 , 13, 3979	3.3	4
12	Synthesis of Tetrahedral Shape-Persistent Tetranuclear Metallophthalphens. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 5971-5980	3.2	26
11	Eine Salicylbisimin-Käfigverbindung mit großer spezifischer Oberfläche und selektiver CO ₂ /CH ₄ -Adsorption. <i>Angewandte Chemie</i> , 2011 , 123, 1078-1083	3.6	114
10	A salicylbisimine cage compound with high surface area and selective CO ₂ /CH ₄ adsorption. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1046-51	16.4	330
9	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, 6389-93	4.2	41
8	Formtreue organische Käfigverbindungen durch dynamische Bildung kovalenter Bindungen. <i>Angewandte Chemie</i> , 2010 , 122, 5164-5175	3.6	128
7	Shape-persistent organic cage compounds by dynamic covalent bond formation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5042-53	16.4	334
6	Tetrapyridoxycalix[4]arene and its copper(II) complex: an ionic crystal engineering tecton for self-inclusion polymers. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009 , 64, 157-161		
5	Conjugated oligothiophenyl dendrimers based on a pyrazino[2,3-g]quinoxaline core. <i>Organic Letters</i> , 2009 , 11, 4500-3	6.2	47
4	One-pot synthesis of a shape-persistent endo-functionalised nano-sized adamantoid compound. <i>Chemical Communications</i> , 2008 , 4756-8	5.8	145
3	Pyridoxycalix[4]arene palladium(II) complexes as tectons for self-inclusion polymers. <i>CrystEngComm</i> , 2008 , 10, 1120	3.3	7

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|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 2 | The next generation of shape-persistent zeolite analogues: covalent organic frameworks.
<i>Angewandte Chemie - International Edition</i> , 2008 , 47, 445-7 | 16.4 | 158 |
| 1 | Highly Selective Adsorption of Perfluorinated Greenhouse Gases by Porous Organic Cages.
<i>Advanced Materials</i> , 2202290 | 24 | 1 |