

Ivo Stary

List of Publications by Year in descending order

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4,116
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87888

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132
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132
times ranked

2762
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards dielectric relaxation at a single molecule scale. <i>Scientific Reports</i> , 2022, 12, 2865.	3.3	4
2	Nonaqueous capillary electrophoresis and quantum chemical calculations applied to investigation of acid-base and electromigration properties of azahelicenes. <i>Electrophoresis</i> , 2022, 43, 696-707.	2.4	7
3	Helically Chiral Aromatics: The Synthesis of Helicenes by [2 + 2 + 2] Cycloisomerization of π -Electron Systems. <i>Accounts of Chemical Research</i> , 2020, 53, 144-158.	15.6	133
4	Synthesis of Racemic, Diastereopure, and Enantiopure Carba- or Oxa[5]-, [6]-, [7]-, and -[19]helicene (Di)thiol Derivatives. <i>Journal of Organic Chemistry</i> , 2020, 85, 248-276.	3.2	15
5	Quantum dissipation driven by electron transfer within a single molecule investigated with atomic force microscopy. <i>Nature Communications</i> , 2020, 11, 1337.	12.8	18
6	Heterochiral recognition among functionalized heptahelicenes on noble metal surfaces. <i>Chemical Communications</i> , 2019, 55, 10595-10598.	4.1	18
7	Chirality-Controlled Self-Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuir-Blodgett Thin Films. <i>Chemistry - A European Journal</i> , 2019, 25, 11393-11393.	3.3	0
8	Titelbild: Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy (<i>Angew. Chem.</i> 8/2019). <i>Angewandte Chemie</i> , 2019, 131, 2179-2179.	2.0	0
9	Chirality-Controlled Self-Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuir-Blodgett Thin Films. <i>Chemistry - A European Journal</i> , 2019, 25, 11494-11502.	3.3	10
10	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 2288-2293.	2.0	3
11	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2266-2271.	13.8	8
12	Asymmetric Synthesis of Nonracemic 2-Amino[6]helicenes and Their Self-Assembly into Langmuir Films. <i>Journal of Organic Chemistry</i> , 2018, 83, 5523-5538.	3.2	35
13	Large Converse Piezoelectric Effect Measured on a Single Molecule on a Metallic Surface. <i>Journal of the American Chemical Society</i> , 2018, 140, 940-946.	13.7	33
14	Asymmetric Synthesis of Diastereo- and Enantiopure Bioxahelicene 2,2'-Bipyridines. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5164-5178.	2.4	22
15	Dihydrogen contacts observed by through-space indirect NMR coupling. <i>Chemical Science</i> , 2018, 9, 7437-7446.	7.4	10
16	Helicenes as Chirality-Inducing Groups in Transition-Metal Catalysis: The First Helically Chiral Olefin Metathesis Catalyst. <i>Chemistry - A European Journal</i> , 2018, 24, 10994-10998.	3.3	32
17	Reversal of the sense of enantioselectivity between 1- and 2-aza[6]helicenes used as chiral inducers of asymmetric autocatalysis. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1321-1324.	2.8	24
18	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. <i>Angewandte Chemie</i> , 2017, 129, 5933-5937.	2.0	22

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19	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5839-5843.	13.8	61
20	Oxahelicene NHC ligands in the asymmetric synthesis of nonracemic helicenes. <i>Chemical Communications</i> , 2017, 53, 4370-4373.	4.1	64
21	Spectroscopic characterization of the on-surface induced (cyclo)dehydrogenation of a N-heteroaromatic compound on noble metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22454-22461.	2.8	3
22	From helical to planar chirality by on-surface chemistry. <i>Nature Chemistry</i> , 2017, 9, 213-218.	13.6	101
23	Growth kinetics of racemic heptahelicene-2-carboxylic acid nanowires on calcite (104). <i>Journal of Chemical Physics</i> , 2016, 145, 134702.	3.0	3
24	[2+2+2] Cycloisomerisation of Aromatic Cyanodiyne in the Synthesis of Pyridohelicenes and Their Analogues. <i>Chemistry - A European Journal</i> , 2016, 22, 14401-14405.	3.3	41
25	Two-photon absorption and two-photon circular dichroism of hexahelicene derivatives: a study of the effect of the nature of intramolecular charge transfer. <i>RSC Advances</i> , 2015, 5, 17429-17437.	3.6	32
26	Chimerical Pyrene-Based [7]Helicenes as Twisted Polycondensed Aromatics. <i>Chemistry - A European Journal</i> , 2015, 21, 8910-8917.	3.3	77
27	Mechanical tuning of conductance and thermopower in helicene molecular junctions. <i>Nanoscale</i> , 2015, 7, 8793-8802.	5.6	66
28	An Ultimate Stereocontrol in Asymmetric Synthesis of Optically Pure Fully Aromatic Helicenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 8469-8474.	13.7	97
29	On the Physicochemical Properties of Pyridohelicenes. <i>Chemistry - A European Journal</i> , 2014, 20, 877-893.	3.3	25
30	Sequential formation of N-doped nanohelicenes, nanographenes and nanodomains by surface-assisted chemical (cyclo)dehydrogenation of heteroaromatics. <i>Chemical Communications</i> , 2014, 50, 1555.	4.1	23
31	The Use of Cobalt-Mediated Cycloisomerisation of Ynedinitriles in the Synthesis of Pyridazinohelicenes. <i>Chemistry - A European Journal</i> , 2014, 20, 8477-8482.	3.3	14
32	Tailored Formation of N-Doped Nanoarchitectures by Diffusion-Controlled on-Surface (Cyclo)Dehydrogenation of Heteroaromatics. <i>ACS Nano</i> , 2013, 7, 3676-3684.	14.6	52
33	Rapid Access to Dibenzohelicenes and their Functionalized Derivatives. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9970-9975.	13.8	137
34	The synthesis of π -electron molecular rods with a thiophene or thieno[3,2-b]thiophene core unit and sulfur alligator clips. <i>Tetrahedron Letters</i> , 2013, 54, 2795-2798.	1.4	12
35	Tetrathiafulvalene- <i>para</i> -phenyleneethynylene Conjugates: Formation of Multiple Mixed-Valence Complexes upon Electrochemical Oxidation. <i>Chemistry - A European Journal</i> , 2013, 19, 6108-6121.	3.3	10
36	Chiral cobalt and nickel complexes in the synthesis of nonracemic helicenes through the enantioselective [2+2] cyclotrimerisation of alkynes. <i>Journal of Organometallic Chemistry</i> , 2013, 723, 98-102.	1.8	57

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37	Biophysical and RNA Interference Inhibitory Properties of Oligonucleotides Carrying Tetrathiafulvalene Groups at Terminal Positions. <i>Journal of Chemistry</i> , 2013, 2013, 1-11.	1.9	4
38	Azahelicene Superbases as MAILD Matrices for Acidic Analytes. <i>ChemPlusChem</i> , 2013, 78, 937-942.	2.8	17
39	Molecular Self-Assembly of Enantiopure Heptahelicene-2-Carboxylic Acid on Calcite (101̄...4). <i>Journal of Physical Chemistry C</i> , 2012, 116, 4637-4641.	3.1	29
40	[11]Anthrahelicene on TiO ₂ surfaces. <i>Surface Science</i> , 2012, 606, 1600-1607.	1.9	15
41	Interstrand interactions on DNA duplexes modified by TTF units at the 3' or 5'-ends. <i>RSC Advances</i> , 2012, 2, 4069.	3.6	6
42	A General Approach to Optically Pure [5], [6], and [7]Heterohelicenes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5857-5861.	13.8	70
43	Enantioselective [2+2+2] cycloisomerisation of alkynes in the synthesis of helicenes: The search for effective chiral ligands. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 2005-2022.	1.0	16
44	Racemic and Optically Pure Heptahelicene-2-carboxylic Acid: Its Synthesis and Self-Assembly into Nanowire-Like Aggregates. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 853-860.	2.4	36
45	Helicene-Based Phosphite Ligands in Asymmetric Transition-Metal Catalysis: Exploring Rh-Catalyzed Hydroformylation and Ir-Catalyzed Allylic Amination. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 3849-3857.	2.4	72
46	[11]Anthrahelicene on InSb(001) c(8̄-2): A Low-Temperature Scanning Probe Microscopy Study. <i>ChemPhysChem</i> , 2010, 11, 3522-3528.	2.1	9
47	A Versatile Synthesis of Functionalized Pentahelicenes. <i>Journal of Organic Chemistry</i> , 2010, 75, 6889-6899.	3.2	45
48	Toward Molecular Nanowires Self-Assembled on an Insulating Substrate: Heptahelicene-2-carboxylic acid on Calcite (101̄...4). <i>Journal of Physical Chemistry C</i> , 2010, 114, 1547-1552.	3.1	77
49	An organometallic route to long helicenes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13169-13174.	7.1	126
50	The quest for alternative routes to racemic and nonracemic azahelicene derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 189-215.	1.0	17
51	Organocatalysis with azahelicenes: the first use of helically chiral pyridine-based catalysts in the asymmetric acyl transfer reaction. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 1151-1159.	1.0	47
52	Preferential formation of homochiral silver(I) complexes upon coordination of two aza[6]helicene ligands to Ag ⁺ ions. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 323-333.	1.0	23
53	Determination of acid-base dissociation constants of azahelicenes by capillary zone electrophoresis. <i>Journal of Separation Science</i> , 2008, 31, 2686-2693.	2.5	33
54	Evaluation of the intramolecular basis set superposition error in the calculations of larger molecules: [5]helicenes and Phe-Gly-Phe tripeptide. <i>Journal of Computational Chemistry</i> , 2008, 29, 861-870.	3.3	64

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55	A Straightforward Route to Helically Chiral Nâ€Heteroaromatic Compounds: Practical Synthesis of Racemic 1,14â€Diaza[5]helicene and Optically Pure 1â€and 2â€Aza[6]helicenes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3188-3191.	13.8	161
56	On the Origin of Diastereoselectivity in [2 + 2 + 2] Cycloisomerization of Chiral Triynes:â€% Controlling Helicity of Helicene-like Compounds by Thermodynamic Factors. <i>Journal of Organic Chemistry</i> , 2008, 73, 2074-2082.	3.2	75
57	On the Convergence of the Physicochemical Properties of [<i>n</i>]Helicenes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14948-14955.	3.1	79
58	Synthesis of Methoxy Substituted Centrally Chiral Triynes as Precursors of Functionalised Nonracemic Helicene-Like Compounds. <i>Collection of Czechoslovak Chemical Communications</i> , 2007, 72, 1499-1522.	1.0	7
59	Reaction of Isocyanate-Functionalised Silicon Wafers with Complex Amino Compounds. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4032-4037.	2.4	20
60	A Convenient Route to 2â€Hydroxyâ€and 2,15â€Dihydroxyhexahelicene. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4244-4250.	2.4	41
61	Chiral superbases: the proton affinities of 1â€and 2â€aza[6]helicene in the gas phase. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1233-1237.	1.6	75
62	Modified Synthesis of Heptahelicene and Its Resolution Into Single Enantiomers. <i>Collection of Czechoslovak Chemical Communications</i> , 2006, 71, 1256-1264.	1.0	18
63	Asymmetric Allylic Substitution Catalyzed by C1-Symmetrical Complexes of Molybdenum: Structural Requirements of the Ligand and the Stereochemical Course of the Reaction. <i>Chemistry - A European Journal</i> , 2006, 12, 6910-6929.	3.3	75
64	Helicity control in the synthesis of helicenes and related compounds. <i>Pure and Applied Chemistry</i> , 2006, 78, 495-499.	1.9	42
65	Synthetic Studies Toward Chiral Aromatic Triynes as Key Substrates for the Asymmetric Synthesis of Helicene-Like Molecules.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
66	Asymmetric Synthesis of [7]Helicene-Like Moleculesâ€. <i>Organic Letters</i> , 2005, 7, 2547-2550.	4.6	83
67	Synthetic Studies Toward Chiral Aromatic Triynes as Key Substrates for the Asymmetric Synthesis of Helicene-Like Molecules. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 2193-2211.	1.0	8
68	Covalent Analogues of DNA Base-Pairs and Triplets. Part 4. Synthesis of Trisubstituted Benzenes Bearing Purine and/or Pyrimidine Rings by Cyclotrimerization of 6-Ethynylpurines and/or 5-Ethynyl-1,3-dimethyluracil.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
69	Transition Metal Control in the Reaction of Alkyne-Substituted Phenyl Iodides with Terminal Alkynes: Sonogashira Coupling vs Cyclic Carbopalladation.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
70	Synthesis of Helicene Scaffolds via [2 + 2 + 2] Cycloisomerization of Aromatic Triynes.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
71	Synthesis of 3-Hexahelicenol and Its Transformation to 3-Hexahelicenylamines, Diphenylphosphine, Methyl Carboxylate, and Dimethylthiocarbamate.. <i>ChemInform</i> , 2003, 34, no.	0.0	1
72	Synthesis of 3-Hexahelicenol and Its Transformation to 3-Hexahelicenylamines, Diphenylphosphine, Methyl Carboxylate, and Dimethylthiocarbamate. <i>Journal of Organic Chemistry</i> , 2003, 68, 5193-5197.	3.2	155

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73	Synthesis of Helicene Scaffolds via [2+2+2] Cycloisomerization of Aromatic Triynes. Collection of Czechoslovak Chemical Communications, 2003, 68, 917-930.	1.0	32
74	Synthesis of [5]-, [6]-, and [7]Helicene via Ni(0)- or Co(I)-Catalyzed Isomerization of Aromatic <i>cis</i> -Dienetriynes. Journal of the American Chemical Society, 2002, 124, 9175-9180.	13.7	153
75	Covalent Analogues of DNA Base-Pairs and Triplets IV. Synthesis of Trisubstituted Benzenes Bearing Purine and/or Pyrimidine Rings by Cyclotrimerization of 6-Ethynylpurines and/or 5-Ethynyl-1,3-dimethyluracil. Collection of Czechoslovak Chemical Communications, 2002, 67, 1223-1235.	1.0	16
76	Transition metal control in the reaction of alkyne-substituted phenyl iodides with terminal alkynes: Sonogashira coupling vs cyclic carbopalladation. Tetrahedron, 2002, 58, 9007-9018.	1.9	27
77	Cyclotrimerization of 6-ethynylpurines. Synthesis of 1,2,4- and 1,3,5-tris(purin-6-yl)benzenes as novel Hoogsteen-triplet analogues. Tetrahedron Letters, 2001, 42, 519-521.	1.4	22
78	Synthesis of Aromatic Triynes as Precursors to Helicene Derivatives. Collection of Czechoslovak Chemical Communications, 2000, 65, 577-609.	1.0	14
79	Coupling Reactions of <i>ortho</i> -Substituted Halobenzenes with Alkynes. The Synthesis of Phenylacetylenes and Symmetrical or Unsymmetrical 1,2-Diphenylacetylenes. Collection of Czechoslovak Chemical Communications, 1999, 64, 649-672.	1.0	7
80	Transition metal catalysed synthesis of tetrahydro derivatives of [5]-, [6]- and [7]helicene. Tetrahedron Letters, 1999, 40, 1993-1996.	1.4	161
81	Electrochemistry of quaternary ammonium binaphthyl salts. Chemical Communications, 1999, , 641-642.	4.1	2
82	Coupling reactions of <i>ortho</i> -substituted aryl halides with alkynes. The synthesis of functionalized 1-naphthyl-, 1-(1-naphthyl)-2-phenyl-, and 1,2-bis(1-naphthyl)acetylenes. Tetrahedron, 1998, 54, 11209-11234.	1.9	31
83	A Novel Strategy for the Synthesis of Molecules with Helical Chirality. Intramolecular [2 + 2 + 2] Cycloisomerization of Triynes under Cobalt Catalysis. Journal of Organic Chemistry, 1998, 63, 4046-4050.	3.2	89
84	Axially Chiral Selectors of C ₂ Symmetry Bound to Silica: Synthesis and HPLC-Evaluation. Collection of Czechoslovak Chemical Communications, 1995, 60, 645-658.	1.0	5
85	Stereochemistry of Molybdenum(0)-Catalyzed Allylic Substitution: The First Observation of a Syn-Syn Mechanism. Journal of the American Chemical Society, 1995, 117, 6130-6131.	13.7	66
86	Palladium(0)-catalyzed allylic substitution with allylic alkoxides as substrates. Tetrahedron, 1994, 50, 529-537.	1.9	50
87	Stereochemical Dichotomy in the Stevens Rearrangement of Axially Twisted Dihydroazepinium and Dihydrothiepinium Salts. A Novel Enantioselective Synthesis of Pentahelicene. Journal of the American Chemical Society, 1994, 116, 5084-5088.	13.7	63
88	Nucleophilic Attack on 4,5-Dihydro-4-alkyl-3H-dinaphtho[2,1-c:1',2'-e]thiepinium Salts. A Convenient Approach to New 2,2'-Bidentate 1,1'-Binaphthalene Ligands with Sulfur Donor Atoms. Journal of Organic Chemistry, 1994, 59, 1326-1332.	3.2	29
89	Allylic alcohols as substrates for the palladium(0)-catalyzed allylic substitution. Tetrahedron Letters, 1993, 34, 179-182.	1.4	66
90	Nucleophilic cleavage of 4,5-dihydro-3H-dinaphth[2,1-c:1',2'-e]azepinium quaternary salts. A convenient approach to new axially dissymmetric and axially asymmetric ligands. Journal of Organic Chemistry, 1992, 57, 6966-6969.	3.2	12

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91	Stereochemistry of the palladium-catalyzed allylic substitution: the syn-anti dichotomy in the formation of (π -allyl)palladium complexes and their equilibration. <i>Tetrahedron</i> , 1992, 48, 7229-7250.	1.9	76
92	Optically pure (S)- and (R)-4,5-dihydro-3H-4-methyldinaphth[2,1-c; 1 \hat{a} ² ,2 \hat{a} ² -e]azepines. Application to the synthesis of new bidentate ligands with axial asymmetry. <i>Tetrahedron: Asymmetry</i> , 1992, 3, 1365-1368.	1.8	9
93	Steric control of epoxidation by carbamate and amide groups. Evidence for the carbonyl-directed epoxidation. <i>Journal of Organic Chemistry</i> , 1990, 55, 3236-3243.	3.2	85
94	The first observation of syn-anti dichotomy in the formation of (π -allyl)palladium complexes. <i>Journal of the American Chemical Society</i> , 1989, 111, 4981-4982.	13.7	76
95	Stereo- and regio-control of electrophilic additions to cyclohexene systems by neighbouring groups: participation of allylic and homoallylic ester groups in hypobromous acid addition to some 5-unsaturated cholestane derivatives. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1988, , 2297-2303.	0.9	8
96	On the deceptive behavior of tri-n-butyltin hydride: In the reduction of acetates of some bromohydrins. A stereospecific radical rearrangement. <i>Tetrahedron Letters</i> , 1986, 27, 1513-1516.	1.4	28
97	Synthesis of some allylic acetoxy derivatives in the steroid series. <i>Collection of Czechoslovak Chemical Communications</i> , 1985, 50, 1227-1238.	1.0	7
98	Electrophilic additions to 10 $\hat{1}$ ² -vinyl cholestane derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , 1983, 48, 2994-3019.	1.0	2
99	Other Reactions of Allylpalladium and Related Derivatives: Rearrangements of Allylpalladium and Related Derivatives. , 0, , 2011-2025.		0
100	Synthesis of (Di)thiahelices and Dithiophenohelices by [2+2+2] Cycloisomerisation of Alkynes. <i>Helvetica Chimica Acta</i> , 0, , .	1.6	6