Ivo Stary

List of Publications by Year in descending order

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		87888	123424
100 papers	4,116 citations	38 h-index	61 g-index

132 all docs	132 docs citations	132 times ranked	2762 citing authors

#	Article	IF	Citations
1	Transition metal catalysed synthesis of tetrahydro derivatives of [5]-, [6]- and [7]helicene. Tetrahedron Letters, 1999, 40, 1993-1996.	1.4	161
2	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. Angewandte Chemie - International Edition, 2008, 47, 3188-3191.	13.8	161
3	Synthesis of 3-Hexahelicenol and Its Transformation to 3-Hexahelicenylamines, Diphenylphosphine, Methyl Carboxylate, and Dimethylthiocarbamate. Journal of Organic Chemistry, 2003, 68, 5193-5197.	3.2	155
4	Synthesis of [5]-, [6]-, and [7]Helicene via Ni(0)- or Co(I)-Catalyzed Isomerization of Aromaticcis,cis-Dienetriynes. Journal of the American Chemical Society, 2002, 124, 9175-9180.	13.7	153
5	Rapid Access to Dibenzohelicenes and their Functionalized Derivatives. Angewandte Chemie - International Edition, 2013, 52, 9970-9975.	13.8	137
6	Helically Chiral Aromatics: The Synthesis of Helicenes by [2 + 2 + 2] Cycloisomerization of Ï€-Electron Systems. Accounts of Chemical Research, 2020, 53, 144-158.	15.6	133
7	An organometallic route to long helicenes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13169-13174.	7.1	126
8	From helical to planar chirality by on-surface chemistry. Nature Chemistry, 2017, 9, 213-218.	13.6	101
9	An Ultimate Stereocontrol in Asymmetric Synthesis of Optically Pure Fully Aromatic Helicenes. Journal of the American Chemical Society, 2015, 137, 8469-8474.	13.7	97
10	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
11	Steric control of epoxidation by carbamate and amide groups. Evidence for the carbonyl-directed epoxidation. Journal of Organic Chemistry, 1990, 55, 3236-3243.	3.2	85
12	Asymmetric Synthesis of [7]Helicene-Like Moleculesâ€. Organic Letters, 2005, 7, 2547-2550.	4.6	83
13	On the Convergence of the Physicochemical Properties of [n]Helicenes. Journal of Physical Chemistry C, 2007, 111, 14948-14955.	3.1	79
14	Toward Molecular Nanowires Self-Assembled on an Insulating Substrate: Heptahelicene-2-carboxylic acid on Calcite (101ì…4). Journal of Physical Chemistry C, 2010, 114, 1547-1552.	3.1	77
15	Chimerical Pyreneâ€Based [7]Helicenes as Twisted Polycondensed Aromatics. Chemistry - A European Journal, 2015, 21, 8910-8917.	3.3	77
16	The first observation of syn-anti dichotomy in the formation of (.pi.-allyl)palladium complexes. Journal of the American Chemical Society, 1989, 111, 4981-4982.	13.7	76
17	Stereochemistry of the palladium-catalyzed allylic substitution: the syn-anti dichotomy in the formation of (Ï€-allyl)palladium complexes and their equilibration. Tetrahedron, 1992, 48, 7229-7250.	1.9	76
18	Asymmetric Allylic Substitution Catalyzed byC1-Symmetrical Complexes of Molybdenum: Structural Requirements of the Ligand and the Stereochemical Course of the Reaction. Chemistry - A European Journal, 2006, 12, 6910-6929.	3.3	75

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19	Chiral superbases: the proton affinities of 1â€•and 2â€•aza[6]helicene in the gas phase. Journal of Mass Spectrometry, 2007, 42, 1233-1237.	1.6	75
20	On the Origin of Diastereoselectivity in [2 + 2 + 2] Cycloisomerization of Chiral Triynes:â€‰ Controlling Helicity of Helicene-like Compounds by Thermodynamic Factors. Journal of Organic Chemistry, 2008, 73, 2074-2082.	3.2	75
21	Heliceneâ€Based Phosphite Ligands in Asymmetric Transitionâ€Metal Catalysis: Exploring Rhâ€Catalyzed Hydroformylation and Irâ€Catalyzed Allylic Amination. European Journal of Organic Chemistry, 2011, 2011, 3849-3857.	2.4	72
22	A General Approach to Optically Pure [5]â€, [6]â€, and [7]Heterohelicenes. Angewandte Chemie - International Edition, 2012, 51, 5857-5861.	13.8	70
23	Allylic alcohols as substrates for the palladium(0)-catalyzed allylic substitution. Tetrahedron Letters, 1993, 34, 179-182.	1.4	66
24	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
25	Mechanical tuning of conductance and thermopower in helicene molecular junctions. Nanoscale, 2015, 7, 8793-8802.	5.6	66
26	Evaluation of the intramolecular basis set superposition error in the calculations of larger molecules: [n]helicenes and Pheâ€Glyâ€Phe tripeptide. Journal of Computational Chemistry, 2008, 29, 861-870.	3.3	64
27	Oxahelicene NHC ligands in the asymmetric synthesis of nonracemic helicenes. Chemical Communications, 2017, 53, 4370-4373.	4.1	64
28	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
29	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. Angewandte Chemie - International Edition, 2017, 56, 5839-5843.	13.8	61
30	Chiral cobaltI and nickel0 complexes in the synthesis of nonracemic helicenes through the enantioselective [2Â+Â2Â+Â2] cyclotrimerisation of alkynes. Journal of Organometallic Chemistry, 2013, 723, 98-102.	1.8	57
31	Tailored Formation of N-Doped Nanoarchitectures by Diffusion-Controlled on-Surface (Cyclo)Dehydrogenation of Heteroaromatics. ACS Nano, 2013, 7, 3676-3684.	14.6	52
32	Palladium(O)-catalyzed allylic substitution with allylic alkoxides as substrates. Tetrahedron, 1994, 50, 529-537.	1.9	50
33	Organocatalysis with azahelicenes: the first use of helically chiral pyridine-based catalysts in the asymmetric acyl transfer reaction. Collection of Czechoslovak Chemical Communications, 2009, 74, 1151-1159.	1.0	47
34	A Versatile Synthesis of Functionalized Pentahelicenes. Journal of Organic Chemistry, 2010, 75, 6889-6899.	3.2	45
35	Helicity control in the synthesis of helicenes and related compounds. Pure and Applied Chemistry, 2006, 78, 495-499.	1.9	42
36	A Convenient Route to 2â€Hydroxyâ€and 2,15â€Dihydroxyhexahelicene. European Journal of Organic Chemistry, 2007, 2007, 4244-4250.	2.4	41

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37	[2+2+2] Cycloisomerisation of Aromatic Cyanodiynes in the Synthesis of Pyridohelicenes and Their Analogues. Chemistry - A European Journal, 2016, 22, 14401-14405.	3.3	41
38	Racemic and Optically Pure Heptaheliceneâ€2â€carboxylic Acid: Its Synthesis and Selfâ€Assembly into Nanowireâ€Like Aggregates. European Journal of Organic Chemistry, 2011, 2011, 853-860.	2.4	36
39	Asymmetric Synthesis of Nonracemic 2-Amino[6]helicenes and Their Self-Assembly into Langmuir Films. Journal of Organic Chemistry, 2018, 83, 5523-5538.	3.2	35
40	Determination of acidâ€“base dissociation constants of azahelicenes by capillary zone electrophoresis. Journal of Separation Science, 2008, 31, 2686-2693.	2.5	33
41	Large Converse Piezoelectric Effect Measured on a Single Molecule on a Metallic Surface. Journal of the American Chemical Society, 2018, 140, 940-946.	13.7	33
42	Synthesis of Helicene Scaffolds via [2+2+2] Cycloisomerization of Aromatic Triynes. Collection of Czechoslovak Chemical Communications, 2003, 68, 917-930.	1.0	32
43	Two-photon absorption and two-photon circular dichroism of hexahelicene derivatives: a study of the effect of the nature of intramolecular charge transfer. RSC Advances, 2015, 5, 17429-17437.	3.6	32
44	Helicenes as Chiralityâ€Inducing Groups in Transitionâ€Metal Catalysis: The First Helically Chiral Olefin Metathesis Catalyst. Chemistry - A European Journal, 2018, 24, 10994-10998.	3.3	32
45	Coupling reactions of ortho-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
46	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
47	Molecular Self-Assembly of Enantiopure Heptahelicene-2-Carboxylic Acid on Calcite (101Ì…4). Journal of Physical Chemistry C, 2012, 116, 4637-4641.	3.1	29
48	On the deceptive behavior of tri-n-butyltin hydride: In the reduction of acetates of some bromohydrins. A stereospecific radical rearrangement. Tetrahedron Letters, 1986, 27, 1513-1516.	1.4	28
49	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
50	On the Physicochemical Properties of Pyridohelicenes. Chemistry - A European Journal, 2014, 20, 877-893.	3.3	25
51	Reversal of the sense of enantioselectivity between 1- and 2-aza[6]helicenes used as chiral inducers of asymmetric autocatalysis. Organic and Biomolecular Chemistry, 2017, 15, 1321-1324.	2.8	24
52	Preferential formation of homochiral silver(I) complexes upon coordination of two aza[6]helicene ligands to Ag+ ions. Collection of Czechoslovak Chemical Communications, 2009, 74, 323-333.	1.0	23
53	Sequential formation of N-doped nanohelicenes, nanographenes and nanodomes by surface-assisted chemical (cyclo)dehydrogenation of heteroaromatics. Chemical Communications, 2014, 50, 1555.	4.1	23
54	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

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55	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. Angewandte Chemie, 2017, 129, 5933-5937.	2.0	22
56	Asymmetric Synthesis of Diastereoâ€•and Enantiopure Bioxahelicene 2,2â€²â€Bipyridines. European Journal of Organic Chemistry, 2018, 2018, 5164-5178.	2.4	22
57	Reaction of Isocyanate-Functionalised Silicon Wafers with Complex Amino Compounds. European Journal of Organic Chemistry, 2007, 2007, 4032-4037.	2.4	20
58	Modified Synthesis of Heptahelicene and Its Resolution Into Single Enantiomers. Collection of Czechoslovak Chemical Communications, 2006, 71, 1256-1264.	1.0	18
59	Heterochiral recognition among functionalized heptahelicenes on noble metal surfaces. Chemical Communications, 2019, 55, 10595-10598.	4.1	18
60	Quantum dissipation driven by electron transfer within a single molecule investigated with atomic force microscopy. Nature Communications, 2020, 11, 1337.	12.8	18
61	The quest for alternative routes to racemic and nonracemic azahelicene derivatives. Collection of Czechoslovak Chemical Communications, 2009, 74, 189-215.	1.0	17
62	Azahelicene Superbases as MAILD Matrices for Acidic Analytes. ChemPlusChem, 2013, 78, 937-942.	2.8	17
63	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
64	Enantioselective [2+2+2] cycloisomerisation of alkynes in the synthesis of helicenes: The search for effective chiral ligands. Collection of Czechoslovak Chemical Communications, 2011, 76, 2005-2022.	1.0	16
65	[11]Anthrahelicene on TiO2 surfaces. Surface Science, 2012, 606, 1600-1607.	1.9	15
66	Synthesis of Racemic, Diastereopure, and Enantiopure Carba- or Oxa[5]-, [6]-, [7]-, and -[19]helicene (Di)thiol Derivatives. Journal of Organic Chemistry, 2020, 85, 248-276.	3.2	15
67	Synthesis of Aromatic Triynes as Precursors to Helicene Derivatives. Collection of Czechoslovak Chemical Communications, 2000, 65, 577-609.	1.0	14
68	The Use of Cobaltâ€Mediated Cycloisomerisation of Ynedinitriles in the Synthesis of Pyridazinohelicenes. Chemistry - A European Journal, 2014, 20, 8477-8482.	3.3	14
69	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
70	The synthesis of Ï€-electron molecular rods with a thiophene or thieno[3,2-b]thiophene core unit and sulfur alligator clips. Tetrahedron Letters, 2013, 54, 2795-2798.	1.4	12
71	Tetrathiafulvaleneâ€“Oligo(paraâ€phenyleneethynylene) Conjugates: Formation of Multiple Mixedâ€Valence Complexes upon Electrochemical Oxidation. Chemistry - A European Journal, 2013, 19, 6108-6121.	3.3	10
72	Dihydrogen contacts observed by through-space indirect NMR coupling. Chemical Science, 2018, 9, 7437-7446.	7.4	10

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73	Chiralityâ€Controlled Selfâ€Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuirâ€“Blodgett Thin Films. Chemistry - A European Journal, 2019, 25, 11494-11502.	3.3	10
74	Optically pure (S)- and (R)-4,5-dihydro-3H-4-methyldinaphth[2,1-c; 1â€²,2â€²-e]azepines. Application to the synthesis of new bidentate ligands with axial asymmetry. Tetrahedron: Asymmetry, 1992, 3, 1365-1368.	1.8	9
75	[11]Anthrahelicene on InSb(001) c(8Ã—2): A Lowâ€Temperature Scanning Probe Microscopy Study. ChemPhysChem, 2010, 11, 3522-3528.	2.1	9
76	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. Journal of the Chemical Society Perkin Transactions 1, 1988, , 2297-2303.	0.9	8
77	Synthetic Studies Toward Chiral Aromatic Triynes as Key Substrates for the Asymmetric Synthesis of Helicene-Like Molecules. Collection of Czechoslovak Chemical Communications, 2004, 69, 2193-2211.	1.0	8
78	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. Angewandte Chemie - International Edition, 2019, 58, 2266-2271.	13.8	8
79	Synthesis of some allylic acetoxy derivatives in the steroid series. Collection of Czechoslovak Chemical Communications, 1985, 50, 1227-1238.	1.0	7
80	Coupling Reactions of ortho-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
81	Synthesis of Methoxy Substituted Centrally Chiral Triynes as Precursors of Functionalised Nonracemic Helicene-Like Compounds. Collection of Czechoslovak Chemical Communications, 2007, 72, 1499-1522.	1.0	7
82	Nonaqueous capillary electrophoresis and quantum chemical calculations applied to investigation of acidâ€“base and electromigration properties of azahelicenes. Electrophoresis, 2022, 43, 696-707.	2.4	7
83	Interstrand interactions on DNA duplexes modified by TTF units at the 3â€² or 5â€²-ends. RSC Advances, 2012, 2, 4069.	3.6	6
84	Synthesis of (Di)thiahelicenes and Dithiophenohelicenes by [2+2+2] Cycloisomerisation of Alkynes. Helvetica Chimica Acta, 0, , .	1.6	6
85	Axially Chiral Selectors of C2 Symmetry Bound to Silica: Synthesis and HPLC-Evaluation. Collection of Czechoslovak Chemical Communications, 1995, 60, 645-658.	1.0	5
86	Biophysical and RNA Interference Inhibitory Properties of Oligonucleotides Carrying Tetrathiafulvalene Groups at Terminal Positions. Journal of Chemistry, 2013, 2013, 1-11.	1.9	4
87	Towards dielectric relaxation at a single molecule scale. Scientific Reports, 2022, 12, 2865.	3.3	4
88	Growth kinetics of racemic heptahelicene-2-carboxylic acid nanowires on calcite (104). Journal of Chemical Physics, 2016, 145, 134702.	3.0	3
89	Spectroscopic characterization of the on-surface induced (cyclo)dehydrogenation of a N-heteroaromatic compound on noble metal surfaces. Physical Chemistry Chemical Physics, 2017, 19, 22454-22461.	2.8	3
90	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. Angewandte Chemie, 2019, 131, 2288-2293.	2.0	3

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91	Electrochemistry of quaternary ammonium binaphthyl salts. Chemical Communications, 1999, , 641-642.	4.1	2
92	Electrophilic additions to 10Î²-vinyl cholestane derivatives. Collection of Czechoslovak Chemical Communications, 1983, 48, 2994-3019.	1.0	2
93	Synthesis of 3-Hexahelicenol and Its Transformation to 3-Hexahelicenylamines, Diphenylphosphine, Methyl Carboxylate, and Dimethylthiocarbamate.. ChemInform, 2003, 34, no.	0.0	1
94	Other Reactions of Allylpalladium and Related Derivatives: Rearrangements of Allylpalladium and Related Derivatives. , 0, , 2011-2025.		0
95	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.. ChemInform, 2003, 34, no.	0.0	0
96	Transition Metal Control in the Reaction of Alkyne-Substituted Phenyl Iodides with Terminal Alkynes: Sonogashira Coupling vs Cyclic Carbopalladation.. ChemInform, 2003, 34, no.	0.0	0
97	Synthesis of Helicene Scaffolds via [2 + 2 + 2] Cycloisomerization of Aromatic Triynes.. ChemInform, 2003, 34, no.	0.0	0
98	Synthetic Studies Toward Chiral Aromatic Triynes as Key Substrates for the Asymmetric Synthesis of Helicene-Like Molecules.. ChemInform, 2005, 36, no.	0.0	0
99	Chiralityâ€Controlled Selfâ€Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuirâ€“Blodgett Thin Films. Chemistry - A European Journal, 2019, 25, 11393-11393.	3.3	0
100	Titelbild: Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy (Angew. Chem. 8/2019). Angewandte Chemie, 2019, 131, 2179-2179.	2.0	0