Christian Merten

List of Publications by Year
in descending order

107 papers	3,238 citations	159585 30 h-index	189892 50 g-index
119 all docs	119 docs citations	119 times ranked	2588 citing authors

#	Article	IF	Citations
1	Catalytic Atroposelective C7 Functionalisation of Indolines and Indoles. Chemistry - A European Journal, 2022, 28, .	3.3	21
2	Solvation of the Bocâ€“Valâ€“Pheâ€“nPr peptide characterized by VCD spectroscopy and DFT calculations. Physical Chemistry Chemical Physics, 2022, 24, 3611-3617.	2.8	13
3	Anion-binding of a chiral tris(2-aminoethyl)amine-based tripodal thiourea: a spectroscopic and computational study. Physical Chemistry Chemical Physics, 2022, 24, 4042-4050.	2.8	4
4	The Pseudoâ€Natural Product Rhonin Targets RHOGDI. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
5	VCD spectroscopy reveals conformational changes of chiral crown ethers upon complexation of potassium and ammonium cations. Physical Chemistry Chemical Physics, 2022, 24, 11721-11728.	2.8	8
6	StrukturaufklÃ¤rung eines chiralen in situ erzeugten hypervalenten Iodâ€Komplexes mittels VCDâ€Spektroskopie. Angewandte Chemie, 2022, 134, .	2.0	0
7	Structure Elucidation of In Situ Generated Chiral Hypervalent Iodine Complexes via Vibrational Circular Dichroism (VCD). Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
8	Dynamic Stereochemistry of a Biphenylâ€Bisprolineamide Model Catalyst and its Imidazolidinone Intermediates. Chemistry - A European Journal, 2022, 28, .	3.3	7
9	VCD spectroscopy distinguishes the enamine and iminium ion of a 1,1â€²-binaphthyl azepine. Chemical Communications, 2022, 58, 8412-8415.	4.1	1
10	Chirale molekulare Propeller basierend auf Triarylboranâ€Ammoniakâ€Addukten. Angewandte Chemie, 2021, 133, 2994-2999.	2.0	2
11	Chiral Molecular Propellers of Triarylborane Ammonia Adducts. Angewandte Chemie - International Edition, 2021, 60, 2958-2962.	13.8	17
12	VCD spectroscopy reveals that a water molecule determines the conformation of azithromycin in solution. Chemical Communications, 2021, 57, 4031-4034.	4.1	18
13	Treating anisotropic artefacts in circular dichroism spectroscopy enables investigation of lyotropic liquid crystalline polyaspartate solutions. Soft Matter, 2021, 17, 2849-2856.	2.7	13
14	Enantioselective Synthesis of Diaryl Sulfoxides Enabled by Molecular Recognition. Organic Letters, 2021, 23, 1829-1834.	4.6	11
15	Silverâ€Catalyzed Enantioselective Sulfimidation Mediated by Hydrogen Bonding Interactions. Angewandte Chemie - International Edition, 2021, 60, 7920-7926.	13.8	19
16	Silverâ€Catalyzed Enantioselective Sulfimidation Mediated by Hydrogen Bonding Interactions. Angewandte Chemie, 2021, 133, 7999-8005.	2.0	5
17	Rhodium(III)-Catalyzed Enantioselective Benzamidation of Cyclopropenes. Synthesis, 2021, 53, 2192-2200.	2.3	6
18	Dynamic chiral self-recognition in aromatic dimers of styrene oxide revealed by rotational spectroscopy. Communications Chemistry, 2021, 4, .	4.5	8

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19	Induced VCD and conformational chirality in hostâ€“guest complexes of a chiral ammonium salt with crown ethers. Physical Chemistry Chemical Physics, 2021, 23, 18300-18307.	2.8	12
20	Vibrational CD study on the solution phase structures of the MacMillan catalyst and its corresponding iminium ion. Physical Chemistry Chemical Physics, 2021, 23, 25162-25169.	2.8	10
21	How many solvent molecules are required to solvate chiral 1,2-diols with hydrogen bonding solvents? A VCD spectroscopic study. Physical Chemistry Chemical Physics, 2020, 22, 1525-1533.	2.8	23
22	Stereochemistry of the Reaction Intermediates of Prolinol Ether Catalyzed Reactions Characterized by Vibrational Circular Dichroism Spectroscopy. Chemistry - A European Journal, 2020, 26, 2349-2353.	3.3	18
23	Sensitivity of VCD spectroscopy for small structural and stereochemical changes of macrolide antibiotics. Chemical Communications, 2020, 56, 10926-10929.	4.1	17
24	Oxygenated Acyclic Diterpenes with Anticancer Activity from the Irish Brown Seaweed Bifurcaria bifurcata. Marine Drugs, 2020, 18, 581.	4.6	11
25	Asymmetric chainâ€growth synthesis of polyisocyanide with chiral nickel precatalysts. Journal of Polymer Science, 2020, 58, 2221-2233.	3.8	2
26	Recent Advances in the Application of Vibrational Circular Dichroism Spectroscopy for the Characterization of Asymmetric Catalysts. European Journal of Organic Chemistry, 2020, 2020, 5892-5900.	2.4	40
27	Rh^{III}â€Catalyzed Câ^'H Activation of Aryl Hydroxamates for the Synthesis of Isoindolinones. Chemistry - A European Journal, 2020, 26, 10729-10734.	3.3	16
28	More complex, less complicated? Explicit solvation of hydroxyl groups for the analysis of VCD spectra. Physical Chemistry Chemical Physics, 2020, 22, 12515-12523.	2.8	26
29	Solvation and the secondary structure of a proline-containing dipeptide: insights from VCD spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 15640-15648.	2.8	23
30	Basis set dependence of Sî€O stretching frequencies and its consequences for IR and VCD spectra predictions. Physical Chemistry Chemical Physics, 2020, 22, 27979-27986.	2.8	12
31	Antileishmanial compounds from Connarus suberosus: Metabolomics, isolation and mechanism of action. PLoS ONE, 2020, 15, e0241855.	2.5	12
32	How to treat Câ€“F stretching vibrations? A vibrational CD study on chiral fluorinated molecules. Physical Chemistry Chemical Physics, 2019, 21, 3506-3511.	2.8	36
33	Solvation and self-aggregation of chiral alcohols: how hydrogen bonding affects their VCD spectral signatures. Physical Chemistry Chemical Physics, 2019, 21, 13494-13503.	2.8	30
34	Enantioâ€•and Diastereoswitchable Câ^'H Arylation of Methylene Groups in Cycloalkanes. Chemistry - A European Journal, 2019, 25, 8503-8507.	3.3	19
35	Absolute Configurations of Synthetic Molecular Scaffolds from Vibrational CD Spectroscopy. Journal of Organic Chemistry, 2019, 84, 8797-8814.	3.2	107
36	Highly Enantioselective Asymmetric Transfer Hydrogenation: A Practical and Scalable Method To Efficiently Access Planar Chiral [2.2]Paracyclophanes. Journal of Organic Chemistry, 2019, 84, 5369-5382.	3.2	38

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37	The vibrational CD spectra of propylene oxide in liquid xenon: a proof-of-principle CryoVCD study that challenges theory. Physical Chemistry Chemical Physics, 2019, 21, 6582-6587.	2.8	18
38	Chiral hydrogen-bonded supramolecular capsules: synthesis, characterization and complexation of C₇₀. Chemical Communications, 2019, 55, 3298-3301.	4.1	9
39	Lewis Acid Catalyzed Enantioselective Photochemical Rearrangements on the Singlet Potential Energy Surface. Journal of the American Chemical Society, 2019, 141, 20053-20057.	13.7	34
40	Enantioselective Formal C(sp³)â^'H Bond Activation in the Synthesis of Bioactive Spiropyrazolone Derivatives. Angewandte Chemie, 2019, 131, 313-317.	2.0	30
41	Enantioselective Formal C(sp³)â^'H Bond Activation in the Synthesis of Bioactive Spiropyrazolone Derivatives. Angewandte Chemie - International Edition, 2019, 58, 307-311.	13.8	108
42	Revisiting empirical rules for the determination of the absolute configuration of cascarosides and other (oxâ€)anthrones. Chirality, 2018, 30, 432-438.	2.6	8
43	How Do Substrates Bind to a Bifunctional Thiourea Catalyst? A Vibrational CD Study on Carboxylic Acid Binding. Chemistry - A European Journal, 2018, 24, 17855-17855.	3.3	0
44	Câ^'H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. Angewandte Chemie, 2018, 130, 14446-14450.	2.0	43
45	How Do Substrates Bind to a Bifunctional Thiourea Catalyst? A Vibrational CD Study on Carboxylic Acid Binding. Chemistry - A European Journal, 2018, 24, 17948-17954.	3.3	27
46	Câ^'H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. Angewandte Chemie - International Edition, 2018, 57, 14250-14254.	13.8	93
47	IR, Raman, and Vibrational Optical Activity Spectra of Methyl Glycidate in Chloroform and Water: The Clustersâ€inâ€câ€liquid Solvation Model. ChemPhysChem, 2018, 19, 2234-2242.	2.1	21
48	Enantioselective reduction of sulfur-containing cyclic imines through biocatalysis. Nature Communications, 2018, 9, 1949.	12.8	37
49	Enantiokonvergente biokatalytische Redoxisomerisierung. Angewandte Chemie, 2018, 130, 12328-12333.	2.0	7
50	Enantioconvergent Biocatalytic Redox Isomerization. Angewandte Chemie - International Edition, 2018, 57, 12151-12156.	13.8	22
51	Explicit Solvation of Carboxylic Acids for Vibrational Circular Dichroism Studies: Limiting the Computational Efforts without Losing Accuracy. Journal of Physical Chemistry B, 2018, 122, 8056-8064.	2.6	29
52	Photoisomerization of a Chiral Imine Molecular Switch Followed by Matrixâ€Isolation VCD Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 1925-1928.	13.8	25
53	General Enantioselective Câ^'H Activation with Efficiently Tunable Cyclopentadienyl Ligands. Angewandte Chemie - International Edition, 2017, 56, 2429-2434.	13.8	287
54	General Enantioselective Câ^'H Activation with Efficiently Tunable Cyclopentadienyl Ligands. Angewandte Chemie, 2017, 129, 2469-2474.	2.0	117

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55	Asymmetric Synthesis of Carbocyclic Propellanes. Organic Letters, 2017, 19, 2310-2313.	4.6	39
56	Solvation of a chiral carboxylic acid: effects of hydrogen bonding on the IR and VCD spectra of Î±-methoxyphenylacetic acid. Physical Chemistry Chemical Physics, 2017, 19, 18948-18956.	2.8	48
57	Chirality Induction from a Chiral Guest to the Hydrogenâ€Bonding Network of Its Hexameric Resorcinarene Host Capsule. ChemPhysChem, 2017, 18, 1987-1991.	2.1	20
58	Vibrational optical activity as probe for intermolecular interactions. Physical Chemistry Chemical Physics, 2017, 19, 18803-18812.	2.8	68
59	Stereochemical assignment of fusiccocadiene from NMR shielding constants and vibrational circular dichroism spectroscopy. Chirality, 2017, 29, 409-414.	2.6	9
60	Antiprotozoal Linear Furanosesterterpenoids from the Marine Sponge Ircinia oros. Journal of Natural Products, 2017, 80, 2566-2571.	3.0	14
61	Intraâ€versus Intermolecular Hydrogen Bonding: Solventâ€Dependent Conformational Preferences of a Common Supramolecular Binding Motif from ¹Hâ€…NMR and Vibrational Circular Dichroism Spectra. Chemistry - A European Journal, 2017, 23, 17915-17922.	3.3	27
62	Photoisomerisierung eines Schalters auf Basis eines chiralen Imins: Verfolgung durch Matrixisolationsâ€VCDâ€Spektroskopie. Angewandte Chemie, 2017, 129, 1952-1955.	2.0	7
63	Biology-Oriented Synthesis of Decahydro-4,8-epoxyazulene Scaffolds. Synlett, 2017, 28, 2918-2922.	1.8	5
64	Intra- versus Intermolecular Hydrogen Bonding: Solvent-Dependent Conformational Preferences of a Common Supramolecular Binding Motif from 1 Hâ€…NMR and Vibrational Circular Dichroism Spectra. Chemistry - A European Journal, 2017, 23, 17840-17840.	3.3	1
65	Solution and solid state conformational preferences of a family of cyclic disulphide bridged tetrapeptides. Biopolymers, 2017, 107, 28-34.	2.4	13
66	Bifurcatriol, a New Antiprotozoal Acyclic Diterpene from the Brown Alga Bifurcaria bifurcata. Marine Drugs, 2017, 15, 245.	4.6	41
67	Das Zusammenspiel zwischen einer multifunktionalen Dehydrataseâ€DomÃne und einer Câ€Methyltransferase bewirkt die Doppelbindungsverschiebung in der Ambruticinâ€Biosynthese. Angewandte Chemie, 2016, 128, 13787-13790.	2.0	5
68	The Interplay between a Multifunctional Dehydratase Domain and a Câ€Methyltransferase Effects Olefin Shift in Ambruticin Biosynthesis. Angewandte Chemie - International Edition, 2016, 55, 13589-13592.	13.8	26
69	Towards an Observation of Active Conformations in Asymmetric Catalysis: Interactionâ€Induced Conformational Preferences of a Chiral Thiourea Model Compound. Chemistry - A European Journal, 2016, 22, 12455-12463.	3.3	25
70	Solvation of N,C-Protected Valine: Interactions with DMSO and a Chiral Solvating Agent. Journal of Physical Chemistry B, 2016, 120, 9434-9442.	2.6	24
71	Intermolecular Interactions of a Chiral Amine Borane Adduct Revealed by VCD Spectroscopy. Journal of Physical Chemistry A, 2016, 120, 4108-4115.	2.5	14
72	Conformational distortion of Î±-phenylethyl amine in cryogenic matrices â€“ a matrix isolation VCD study. Physical Chemistry Chemical Physics, 2016, 18, 13496-13502.	2.8	24

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73	Controlled Flexible Coordination in Tripodal Iron(II) Phosphane Complexes: Effects on Reactivity. Inorganic Chemistry, 2016, 55, 1183-1191.	4.0	19
74	Stereochemical Communication within a Chiral Ion Pair Catalyst. Angewandte Chemie - International Edition, 2015, 54, 8841-8845.	13.8	58
75	Catalytic Aerobic Oxidation and Tandem Enantioselective Cycloaddition in Cascade Multicomponent Synthesis. Chemistry - A European Journal, 2015, 21, 4913-4917.	3.3	17
76	Contrasting Reactivities of Silicon and Germanium Complexes Supported by an N-Heterocyclic Guanidine Ligand. Inorganic Chemistry, 2015, 54, 2040-2049.	4.0	57
77	Modulating Sonogashira Cross-Coupling Reactivity in Four-Coordinate Nickel Complexes by Using Geometric Control. European Journal of Inorganic Chemistry, 2015, 2015, 2139-2144.	2.0	22
78	Rhodium(II)â€Catalyzed Enantioselective Synthesis of Troponoids. Angewandte Chemie - International Edition, 2015, 54, 7653-7656.	13.8	18
79	Assignment of absolute configurations of highly flexible linear diterpenes from the brown alga Bifurcaria bifurcata by VCD spectroscopy. Chemical Communications, 2015, 51, 16217-16220.	4.1	30
80	Solvent-induced conformational changes in cyclic peptides: a vibrational circular dichroism study. Physical Chemistry Chemical Physics, 2014, 16, 5627-5633.	2.8	62
81	Synthesis and Luminescent Properties of Lewis Base-Appended Borafluorenes. Inorganic Chemistry, 2014, 53, 1475-1486.	4.0	72
82	Identification of the specific, shutter-like conformational reorientation in a chiroptical switching polycarbodiimide by VCD spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 11456.	2.8	28
83	Evidence of Dihydrogen Bonding of a Chiral Amineâ€“Borane Complex in Solution by VCD Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 9940-9943.	13.8	30
84	Strong Solvent-Dependent Preference of Î” and Î› Stereoisomers of a Tris(diamine)nickel(II) Complex Revealed by Vibrational Circular Dichroism Spectroscopy. Inorganic Chemistry, 2014, 53, 3177-3182.	4.0	56
85	Coaxing Solidâ€State Phosphorescence from Tellurophenes. Angewandte Chemie - International Edition, 2014, 53, 4587-4591.	13.8	150
86	Absolute Configuration and Predominant Conformations of a Chiral Crown Etherâ€Based Colorimetric Sensor: A Vibrational Circular Dichroism Spectroscopy and DFT Study of Chiral Recognition. Chirality, 2013, 25, 294-300.	2.6	10
87	Anharmonicity Effects in the Vibrational CD Spectra of Propylene Oxide. Journal of Physical Chemistry Letters, 2013, 4, 3424-3428.	4.6	46
88	Mutual Influence Between Adhesion and Molecular Conformation: Molecular Geometry is a Key Issue in Interphase Formation. Journal of Adhesion, 2013, 89, 77-95.	3.0	12
89	Matrix Isolationâ€Vibrational Circular Dichroism Spectroscopy of 3â€Butynâ€2â€ol and its Binary Aggregates. ChemPhysChem, 2013, 14, 213-219.	2.1	25
90	A comparative vibrational CD study of homo- and heteroleptic complexes of the type [Cu(trans-1,2-diaminocyclohexane)2L](ClO4)2. Dalton Transactions, 2013, 42, 10572-10578.	3.3	15

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91	Track by Track: The Structure of Single Tracks of Atmospheric Pressure Plasma Polymerized Hexamethyl Disiloxane (HMDSO) Analyzed by Infrared Microscopy. Plasma Processes and Polymers, 2013, 10, 60-68.	3.0	9
92	Chirality Transfer in a Methyl Lactateâ€“Ammonia Complex Observed by Matrixâ€Isolation Vibrational Circular Dichroism Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 2073-2076.	13.8	49
93	Effects of electron configuration and coordination number on the vibrational circular dichroism spectra of metal complexes of trans-1,2-diaminocyclohexane. Physical Chemistry Chemical Physics, 2012, 14, 12884.	2.8	40
94	Vibrational circular dichroism spectroscopy of two chiral binaphthyl diphosphine ligands and their palladium complexes in solution. Dalton Transactions, 2012, 41, 10817.	3.3	18
95	Simultaneous Resonance Raman Optical Activity Involving Two Electronic States. Journal of Physical Chemistry A, 2012, 116, 7329-7336.	2.5	41
96	Comparative Study of Measured and Computed Raman Optical Activity of a Chiral Transition Metal Complex. ChemPhysChem, 2011, 12, 1419-1421.	2.1	19
97	Determination of the Helical Screw Sense and Sideâ€Group Chirality of a Synthetic Chiral Polymer from Raman Optical Activity. Angewandte Chemie - International Edition, 2011, 50, 9973-9976.	13.8	27
98	Fast functionalization of multi-walled carbon nanotubes by an atmospheric pressure plasma jet. Journal of Colloid and Interface Science, 2011, 359, 311-317.	9.4	50
99	VCD study of Î±â€methylbenzyl amine derivatives: Detection of the unchanged chiral motif. Chirality, 2010, 22, 754-761.	2.6	13
100	Vibrational circular dichroism of 3â€(trifluoroacetyl)â€camphor and its interaction with chiral amines. Chirality, 2010, 22, 772-777.	2.6	9
101	Observation of resonance electronic and nonâ€resonanceâ€enhanced vibrational natural Raman optical activity. Journal of Raman Spectroscopy, 2010, 41, 1563-1565.	2.5	30
102	FTIR Imaging of Poly(3â€hydroxybutyrate) and Isotactic Poly(propylene oxide) Spherulites. Macromolecular Chemistry and Physics, 2010, 211, 1627-1631.	2.2	12
103	Conformational analysis and vibrational circular dichroism study of a chiral metallocene catalyst. Journal of Molecular Structure, 2010, 970, 101-105.	3.6	9
104	Structural Examination of Dissolved and Solid Helical Chiral Poly(trityl methacrylate) by VCD Spectroscopy. Macromolecules, 2010, 43, 8373-8378.	4.8	37
105	Determining the structure of Î±-phenylethyl isocyanide in chloroform by VCD spectroscopy and DFT calculationsâ€”simple case or challenge?. Physical Chemistry Chemical Physics, 2010, 12, 11635.	2.8	38
106	Vibrational Circular Dichroism Spectroscopy of Solid Polymer Films: Effects of Sample Orientation. Applied Spectroscopy, 2008, 62, 901-905.	2.2	56
107	The Pseudoâ€Natural Product Rhonin Targets RHOGDI. Angewandte Chemie, 0, , .	2.0	2