

# Volkmar Vill

## List of Publications by Year in descending order

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66  
papers

1,293  
citations

361413

20  
h-index

395702

33  
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72  
all docs

72  
docs citations

72  
times ranked

866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on liquid-crystalline glycosides. <i>Liquid Crystals</i> , 1989, 6, 349-356.	2.2	147
2	Carbohydrate liquid crystals: structure–property relationship of thermotropic and lyotropic glycolipids. <i>Current Opinion in Colloid and Interface Science</i> , 2002, 7, 395-409.	7.4	111
3	Conformational and Thermal Phase Behavior of Oligomethylene Chains Constrained by Carbohydrate Hydrogen-Bond Networks. <i>Journal of the American Chemical Society</i> , 2000, 122, 12327-12333.	13.7	73
4	Convergent Synthesis of Columnar Twins and Tetramers from Triphenylene Building Blocks – The First Example of a Columnar Spiro-Twin. <i>European Journal of Organic Chemistry</i> , 1998, 1998, 2499-2506.	2.4	52
5	Self-Organisation, Thermotropic and Lyotropic Properties of Glycolipids Related to their Biological Implications. <i>The Open Biochemistry Journal</i> , 2015, 9, 49-72.	0.5	35
6	An Optically Active Diarylethene Having Cholesterol Units: A Dopant for Photoswitching of Liquid Crystal Phases. <i>Chemistry Letters</i> , 2000, 29, 654-655.	1.3	34
7	Investigation of the influence of carbohydrate amphiphiles on the complex catalysed asymmetric hydrogenation of (Z)-methyl $\pm$ -acetamidocinnamate in water. <i>Journal of Molecular Catalysis A</i> , 1997, 116, 231-236.	4.8	33
8	Structures of micelles formed by synthetic alkyl glycosides with unsaturated alkyl chains. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 704-713.	9.4	32
9	Nematic and Smectic a Phases in Ortho-Hydroxy-Para-Hexadecanoyloxybenzylidene-Para-Substituted Anilines. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 452, 63-72.	0.9	30
10	Re-entrant and induced mesophases: Mixed systems showing re-entrant TGB <sub>A</sub> and re-entrant cholesteric phases. <i>Liquid Crystals</i> , 1996, 20, 547-552.	2.2	27
11	Liquid–Crystalline D-Glucose Dialkyl Acetals and Dodecyl D-Glucosides. <i>Chemische Berichte</i> , 1994, 127, 1065-1068.	0.2	26
12	Synthesis and properties of sulfated alkyl glycosides. <i>Carbohydrate Research</i> , 1992, 230, 245-256.	2.3	24
13	Vorlander's wheel. <i>Liquid Crystals</i> , 1997, 23, 813-819.	2.2	24
14	Mixed Micelles Formed by SDS and a Bolaamphiphile with Carbohydrate Headgroups. <i>Langmuir</i> , 2005, 21, 6707-6711.	3.5	24
15	Sign inversion of the helical pitch in carbohydrate-based liquid crystals. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 2443-2446.	1.8	23
16	Carbohydrate-based liquid crystals: new compounds showing re-entrant TGBA and cholesteric phases and dopant-induced TGBA, SA and SC* phases. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1047.	2.0	23
17	Homologous Series of Liquid Crystalline Steroidal Lipids. <i>Journal of Physical and Chemical Reference Data</i> , 1997, 26, 291-333.	4.2	22
18	The stereochemistry of glycolipids. A key for understanding membrane functions?. <i>Liquid Crystals</i> , 2006, 33, 1351-1358.	2.2	22

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19	Dichroic photo- and electroluminescence of oligo p-(phenylene vinylene) derivatives. <i>Synthetic Metals</i> , 2007, 157, 222-227.	3.9	20
20	Synthese und Eigenschaften kalamitischer Flüssigkristalle aus desoxygenierten Kohlenhydratä€Derivaten. <i>Chemische Berichte</i> , 1990, 123, 1129-1135.	0.2	19
21	Liquid crystals derived from carbohydrates: Synthesis and properties of oxadecaline compounds. <i>Liebigs Annalen</i> , 1995, 1995, 1055-1059.	0.8	19
22	Cellulose-Based Polymers with Long-Chain Pendant Ferrocene Derivatives as Organometallic Chromophoresä€. <i>Organometallics</i> , 2004, 23, 3853-3864.	2.3	19
23	<scp>D</scp>ä€GalacturonsÄurederivate, VI. <scp>D</scp>ä€GalacturonsÄurederivate mit flÄ¼ssigkristallinen Eigenschaften. <i>Liebigs Annalen Der Chemie</i> , 1992, 1992, 1171-1177.	0.8	18
24	Structural variation of liquid crystalline trioxadecalins. <i>Journal of Materials Chemistry</i> , 1996, 6, 739.	6.7	18
25	Synthesis and Photochemical Behaviour of 3-(Estran-16-yl)acrylates and 2-(Estran-16-yl)vinyl Ketonesä€. <i>Journal of Chemical Research Synopses</i> , 1997, , 248-249.	0.3	18
26	Micellar structure of a sugar based bolaamphiphile in pure solution and destabilizing effects in mixtures of glycolipids. <i>Chemical Physics Letters</i> , 2004, 392, 105-109.	2.6	17
27	Prediction of Material Properties from Chemical Structures. The Clearing Temperature of Nematic Liquid Crystals Derived from Their Chemical Structures by Artificial Neural Networks. <i>Journal of Chemical Information and Computer Sciences</i> , 1996, 36, 1173-1177.	2.8	16
28	Hexakis(terthiophenylthio)benzene as a New Class Liquid Crystalline Molecule. <i>Journal of Chemical Research Synopses</i> , 1999, , 596-597.	0.3	15
29	Preliminary communication : Development of an incremental system for the prediction of the nematic-isotropic phase transition temperature of liquid crystals with two aromatic rings. <i>Liquid Crystals</i> , 1997, 22, 519-523.	2.2	14
30	Cholesteric helix inversion: investigations on the influence of the terminal group on the inversion of the helical pitch in trioxadecalins. <i>Journal of Materials Chemistry</i> , 1997, 7, 893-899.	6.7	13
31	Stereospecific Synthesis of New Trioxadecalin-Derived Liquid Crystals Bearing Halogen Substituents on the Phenyl Ring. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 375-381.	2.4	13
32	Sugar Amphiphiles as Revealing Dopants for Induced Chiral Nematic Lyotropic Liquid Crystals. <i>Journal of Colloid and Interface Science</i> , 2001, 236, 108-115.	9.4	12
33	Dimeric liquid crystals with two troponoid mesogenic moieties: effect of the direction of the carbonyl group on the mesomorphic properties. <i>Liquid Crystals</i> , 2002, 29, 687-695.	2.2	12
34	Antiferroelectric ordering of amphiphilic glycolipids in bent-core liquid crystals. <i>Physical Review E</i> , 2004, 69, 021703.	2.1	12
35	Cholesteric helix inversion: Novel nitro compounds showing unusual changes of the cholesteric helical pitch. <i>Liquid Crystals</i> , 1996, 20, 449-452.	2.2	11
36	Novel Nitronyl Nitroxides: Synthesis and Properties. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2002, 57, 677-684.	0.7	11

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37	Liquid Crystalline 6-Deoxy Glycosides. <i>Journal of Carbohydrate Chemistry</i> , 1991, 10, 771-786.	1.1	10
38	Flüssigkristalline 4,6-O-(n-Alkyliden)-D-glucofuranose. <i>Journal für Praktische Chemie</i> , 1991, 333, 173-175.	0.2	10
39	Synthesis and mesomorphic properties of glycosyl dialkyl- and diacyl-glycerols bearing saturated, unsaturated and methyl branched fatty acid and fatty alcohol chains. <i>Chemistry and Physics of Lipids</i> , 2005, 135, 1-14.	3.2	10
40	Synthesis and mesomorphic properties of glycosyl dialkyl- and diacyl-glycerols bearing saturated, unsaturated and methyl branched fatty acid and fatty alcohol chains. <i>Chemistry and Physics of Lipids</i> , 2005, 135, 15-26.	3.2	10
41	Comparison of the Supramolecular Structures of Two Glyco Lipids with Chiral and Nonchiral Methyl-Branched Alkyl Chains from Natural Sources. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1599-1608.	2.6	10
42	Structural preferences of dioleoyl glycolipids with mono- and disaccharide head groups. <i>Chemistry and Physics of Lipids</i> , 2007, 149, 52-58.	3.2	10
43	Structural polymorphism of hydrated ether-linked dimyristyl maltoside and melibioside. <i>Chemistry and Physics of Lipids</i> , 2008, 151, 18-29.	3.2	9
44	Predicting the transition temperature of smectic liquid crystalline compounds from their structure using artificial neural networks. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996, , 1685-1689.	0.9	8
45	Grey levels in the history of liquid crystals. <i>Liquid Crystals</i> , 1998, 24, 21-24.	2.2	8
46	Enantiopure Trioxadecalin Derived Liquid Crystals: Influence of the Nature of the Phenyl Substituent on the Mesogenic Properties. <i>Journal of Carbohydrate Chemistry</i> , 2003, 22, 685-703.	1.1	8
47	The Development of Liquid Crystal Research. <i>Advanced Materials</i> , 1994, 6, 527-528.	21.0	7
48	Tannin-Mordant Coloration with Matcha ( <i>Camellia sinensis</i> ) and Iron(II)-Lactate on Human Hair Tresses. <i>Molecules</i> , 2021, 26, 829.	3.8	7
49	Mesomorphic derivatives of the 6-amino-6-deoxy-D-galactose. <i>Journal of Materials Chemistry</i> , 1995, 5, 2073.	6.7	6
50	Synthesis and Properties of Bis(5-alkoxytropolonato) Metallomesogens. <i>Chemistry Letters</i> , 1998, 27, 601-602.	1.3	6
51	New Twin-Type Troponoid Liquid Crystals with a Smectic C Phase. <i>Chemistry Letters</i> , 1998, 27, 617-618.	1.3	6
52	Steroidal ether lipids with liquid crystalline properties. <i>Chemistry and Physics of Lipids</i> , 1991, 58, 105-110.	3.2	5
53	Mesogenic Properties of Bis(5-Alkoxytropolonato)Metals. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 332, 127-134.	0.3	5
54	Structural polymorphism of hydrated monoacylated maltose glycolipids. <i>Chemistry and Physics of Lipids</i> , 2008, 155, 31-37.	3.2	5

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55	Synthesis and molecular structure of asymmetric 2,2â€²-(4-(alkyloxy)-1,3-phenylene)bis(1-(4-substitutedphenyl)diazene): Crystal structure of 2,2â€²-(4-(octyloxy)-1,3-phenylene)bis(1-(4-chlorophenyl)diazene). Journal of Molecular Structure, 2008, 882, 1-8.	3.6	5
56	Use of glucose as a trifunctional building block for chiral liquid crystals. Journal of Materials Chemistry, 1995, 5, 2283.	6.7	4
57	An Improved Synthetic Procedure for the Preparation of Nâ€™Acyl (2â€™aminoethyl)â€™glycopyranoside Lipids and Characterization of Their Mesogenic Properties. Journal of Carbohydrate Chemistry, 2006, 25, 615-632.	1.1	4
58	Liquid Crystalline Cholestanyl and Cholesteryl Ether Lipids. Molecular Crystals and Liquid Crystals, 1994, 250, 73-83.	0.3	3
59	ENANTIOPURE TRIOXADECALIN DERIVED LIQUID CRYSTALS: INFLUENCE OF PHENYL SUBSTITUTION ON THE MESOGENIC PROPERTIES. Journal of Carbohydrate Chemistry, 2001, 20, 315-327.	1.1	3
60	Synthesis and Mesogenic Properties of Enantiopure Trioxadecalin Derivatives Bearing an n-Alkylphenyl Substituent. Journal of Chemical Research, 2001, 2001, 461-462.	1.3	3
61	Chemical Structures and Polymorphism. , 2001, , 101-114.		2
62	Cholest-5-en-3Î²-yl 3-(4-ethoxyphenyl)prop-2-enoate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2064-o2064.	0.2	1
63	Liquid Crystalline Trioxadecalins: The Mesogenic Chirality as Sensor for Molecular Conformation and Orientation. ACS Symposium Series, 2001, , 206-213.	0.5	0
64	Directional Effects of the Carbonyl Group on the Mesogenic Properties of Twin Troponoids. Molecular Crystals and Liquid Crystals, 2001, 365, 1-5.	0.3	0
65	Enantiopure Trioxadecalin Derived Liquid Crystals: Influence of the Nature of the Phenyl Substituent on the Mesogenic Properties.. ChemInform, 2004, 35, no.	0.0	0
66	Crystal structure of cholest-5-en-3Î²-yl 3-(2,4-dimethoxy-3-methylphenyl)prop-2-enoate. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o92-o93.	0.5	0