

Gerhard Wenz

List of Publications by Year in descending order

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120
papers

7,807
citations

76196

40
h-index

49773

87
g-index

121
all docs

121
docs citations

121
times ranked

5863
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclodextrins as Building Blocks for Supramolecular Structures and Functional Units. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 803-822.	4.4	1,281
2	Cyclodextrin Rotaxanes and Polyrotaxanes. <i>Chemical Reviews</i> , 2006, 106, 782-817.	23.0	1,222
3	Threading Cyclodextrin Rings on Polymer Chains. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 197-199.	4.4	344
4	Structure of poly(diacetylenes) in solution. <i>Macromolecules</i> , 1984, 17, 837-850.	2.2	275
5	Nanoparticles made from novel starch derivatives for transdermal drug delivery. <i>Journal of Controlled Release</i> , 2010, 141, 85-92.	4.8	257
6	An Improved Method for the Assembly of Amino-Terminated Monolayers on SiO ₂ and the Vapor Deposition of Gold Layers. <i>Langmuir</i> , 1999, 15, 4520-4523.	1.6	231
7	Cyclodextrine als Bausteine supramolekularer Strukturen und Funktionseinheiten. <i>Angewandte Chemie</i> , 1994, 106, 851-870.	1.6	204
8	Ultrathin films of cellulose on silicon wafers. <i>Advanced Materials</i> , 1993, 5, 919-922.	11.1	201
9	Controlled Orientation of Cyclodextrin Derivatives Immobilized on Gold Surfaces. <i>Journal of the American Chemical Society</i> , 1996, 118, 5039-5046.	6.6	166
10	Kinetics and Thermodynamics of the Inclusion of Ionene-6,10 in β -Cyclodextrin in an Aqueous Solution. <i>Macromolecules</i> , 1997, 30, 4966-4972.	2.2	154
11	Modified Cyclodextrins-Novel, Highly Enantioselective Stationary Phases for Gas Chromatography. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 979-980.	4.4	112
12	New polymers with disc-shaped mesogenic groups in the main chain. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1985, 6, 577-584.	1.1	95
13	Association thickener by host guest interaction of a β -cyclodextrin polymer and a polymer with hydrophobic side-groups. <i>Macromolecular Rapid Communications</i> , 1997, 18, 1117-1123.	2.0	90
14	Cyclodextrin sidechain polyesters – synthesis and inclusion of adamantan derivatives. <i>Macromolecular Rapid Communications</i> , 1996, 17, 731-736.	2.0	86
15	Synthesis of Water-Soluble Inclusion Compounds from Polyamides and Cyclodextrins by Solid-State Polycondensation. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 2139-2141.	4.4	84
16	Molecular Recognition of Polymers by Cyclodextrin Vesicles. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2066-2070.	7.2	84
17	Cyclodextrins as chiral stationary phases in capillary gas chromatography. Part III: Hexakis(3-O-acetyl-2,6-di-O-pentyl)- β -cyclodextrin. <i>Journal of High Resolution Chromatography</i> , 1988, 11, 621-625.	2.0	83
18	Synthesis of a Lipophilic Cyclodextrin- β -[2]-Rotaxane. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 783-785.	4.4	82

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19	Über das Auffädeln von Cyclodextrin-Ringen auf Polymerketten. <i>Angewandte Chemie</i> , 1992, 104, 201-204.	1.6	82
20	Modifizierte Cyclodextrine – neue, hochemantioselektive Trennphasen für die Gaschromatographie. <i>Angewandte Chemie</i> , 1988, 100, 989-990.	1.6	79
21	Cyclodextrins as chiral stationary phases in capillary gas chromatography I. Pentylated β -cyclodextrin. <i>Journal of Chromatography A</i> , 1988, 447, 193-197.	1.8	79
22	Supramolecular control of the photochemistry of stilbenes by cyclodextrins. <i>Chemical Communications</i> , 1997, , 1709-1710.	2.2	75
23	Immobilization Kinetics of Cyclodextrins at Gold Surfaces. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17893-17900.	2.9	72
24	Recognition of Ionic Guests by Ionic β -Cyclodextrin Derivatives. <i>Chemistry - A European Journal</i> , 2008, 14, 7202-7211.	1.7	72
25	Molecular weight distribution and solution properties of a poly(diacetylene). <i>Die Makromolekulare Chemie Rapid Communications</i> , 1982, 3, 231-237.	1.1	67
26	Ultrathin layers and supramolecular architecture of isopentylcellulose. <i>Macromolecules</i> , 1995, 28, 1221-1228.	2.2	64
27	Photochemical Synthesis of Polyrotaxanes from Stilbene Polymers and Cyclodextrins. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2511-2514.	4.4	64
28	Threading of cyclodextrins onto a polyester of octanedicarboxylic acid and polyethylene glycol. <i>Macromolecular Rapid Communications</i> , 1997, 18, 1109-1115.	2.0	58
29	Improved Cyclodextrin-Based Receptors for Camptothecin by Inverse Virtual Screening. <i>Chemistry - A European Journal</i> , 2007, 13, 6801-6809.	1.7	57
30	Solid state polycondensation within cyclodextrin channels leading to watersoluble polyamide rotaxanes. <i>Tetrahedron</i> , 1997, 53, 15575-15592.	1.0	56
31	Synthesis, control of substitution pattern and phase transitions of 2,3-di-O-methylcellulose. <i>Carbohydrate Research</i> , 2000, 326, 67-79.	1.1	56
32	Betulin Complex in β -Cyclodextrin Derivatives: Properties and Antineoplastic Activities in In Vitro and In Vivo Tumor Models. <i>International Journal of Molecular Sciences</i> , 2012, 13, 14992-15011.	1.8	55
33	A Hydrophobic Starch Polymer for Nanoparticle-Mediated Delivery of Docetaxel. <i>Macromolecular Bioscience</i> , 2012, 12, 184-194.	2.1	55
34	Space filling of β -cyclodextrin and γ -cyclodextrin derivatives by volatile hydrophobic guests. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1185-1191.	1.3	55
35	Gas Chromatographic Separation of Enantiomeric Olefins. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 1556-1558.	4.4	49
36	Improved gas chromatographic separation of enantiomeric carbohydrate derivatives using a new chiral stationary phase. <i>Carbohydrate Research</i> , 1988, 183, 11-17.	1.1	47

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37	Nanoparticles of anionic starch and cationic cyclodextrin derivatives for the targeted delivery of drugs. <i>Polymer Chemistry</i> , 2011, 2, 209-215.	1.9	45
38	Cylindrical Polymer Brushes by Atom Transfer Radical Polymerization from Cyclodextrin-PEG Polyrotaxanes: Synthesis and Mechanical Stability. <i>Macromolecules</i> , 2013, 46, 2-7.	2.2	45
39	Spectroscopic and surface-analytical characterization of self-assembled layers on Au. <i>Biosensors and Bioelectronics</i> , 1995, 10, 903-916.	5.3	44
40	An Overview of Host-Guest Chemistry and its Application to Nonsteroidal Anti-Inflammatory Drugs. <i>Clinical Drug Investigation</i> , 2000, 19, 21-25.	1.1	44
41	Solubilizing steroidal drugs by β -cyclodextrin derivatives. <i>International Journal of Pharmaceutics</i> , 2017, 531, 559-567.	2.6	43
42	Topochemical Aspects of the Formation of Networks in Layered Langmuir-Blodgett (LB) Assemblies. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 340-343.	4.4	40
43	Guest-host interactions with immobilized cyclodextrins. <i>Sensors and Actuators B: Chemical</i> , 1997, 38, 58-67.	4.0	40
44	Influence of intramolecular hydrogen bonds on the binding potential of methylated β -cyclodextrin derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1890-1895.	1.3	40
45	Adsorption of Polymeric Inclusion Compounds on Muscovite Mica. <i>Macromolecules</i> , 1996, 29, 718-723.	2.2	39
46	Enhanced cellular delivery of idarubicin by surface modification of propyl starch nanoparticles employing pteric acid conjugated polyvinyl alcohol. <i>International Journal of Pharmaceutics</i> , 2011, 420, 147-155.	2.6	38
47	Cellular delivery of polynucleotides by cationic cyclodextrin polyrotaxanes. <i>Journal of Controlled Release</i> , 2012, 164, 387-393.	4.8	38
48	Fabrication of poly(p-phenylene vinylene) (PPV) nanoheterocomposite films via layer-by-layer adsorption. <i>Supramolecular Science</i> , 1995, 2, 199-207.	0.7	35
49	Thermoreversible Networks by Diels-Alder Reaction of Cellulose Furoates With Bismaleimides. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 182-186.	1.1	35
50	Gaschromatographische Trennung enantiomerer Olefine. <i>Angewandte Chemie</i> , 1988, 100, 1614-1615.	1.6	34
51	Synthesis and characterisation of some lipophilic per(2,6-di-O-alkyl)cyclomalto-oligosaccharides. <i>Carbohydrate Research</i> , 1991, 214, 257-265.	1.1	34
52	Speed control for cyclodextrin rings on polymer chains. <i>Macromolecular Symposia</i> , 1994, 87, 11-16.	0.4	33
53	Kinetics of Threading β -Cyclodextrin onto Cationic and Zwitterionic Poly(bola-amphiphiles). <i>Macromolecules</i> , 2006, 39, 8021-8026.	2.2	33
54	One Pot Synthesis of a Polyisoprene Polyrotaxane and Conversion to a Slide-Ring Gel. <i>Macromolecular Rapid Communications</i> , 2016, 37, 67-72.	2.0	33

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55	Synthesis of a cellulose thiosulfate and its immobilization on gold surfaces. <i>Polymer</i> , 1999, 40, 1593-1601.	1.8	32
56	Thickness Recognition of Bolaamphiphiles by β -Cyclodextrin. <i>Chemistry - A European Journal</i> , 2007, 13, 2218-2223.	1.7	32
57	Polymerization of TS-12 diacetylene crystals: Crystal structures of monomer and polymer and spectroscopy of reaction intermediates. <i>Chemical Physics</i> , 1982, 72, 201-212.	0.9	31
58	Synthesis of glycosylated peptides by NCA polymerization for recognition of human T-cells. <i>Polymer Chemistry</i> , 2011, 2, 2239.	1.9	31
59	An integrated optical Mach-Zehnder interferometer functionalized by β -cyclodextrin to monitor binding reactions. <i>Sensors and Actuators B: Chemical</i> , 2001, 80, 116-124.	4.0	30
60	Towards porous silica materials via nanocasting of stable pseudopolyrotaxanes from β -cyclodextrin and polyamines. <i>Microporous and Mesoporous Materials</i> , 2003, 66, 127-132.	2.2	30
61	Synthese eines lipophilen Cyclodextrin- β -Rotaxans. <i>Angewandte Chemie</i> , 1992, 104, 758-761.	1.6	29
62	Dynamic effects in friction and adhesion through cooperative rupture and formation of supramolecular bonds. <i>Nanoscale</i> , 2015, 7, 7674-7681.	2.8	28
63	Switching adhesion and friction by light using photosensitive guest-host interactions. <i>Chemical Communications</i> , 2015, 51, 1830-1833.	2.2	27
64	Molecular solubilization of fullerene C ₆₀ in water by β -cyclodextrin thioethers. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1644-1651.	1.3	25
65	Preparation and characterization of per-O-pentylated cyclodextrins. <i>Journal of High Resolution Chromatography</i> , 1990, 13, 724-728.	2.0	24
66	Investigation of molecular superstructure of hairy rodlike polymers by X-ray reflection. <i>Thin Solid Films</i> , 1992, 210-211, 397-400.	0.8	24
67	A comparison investigation on the solubilization of betulin and betulinic acid in cyclodextrin derivatives. <i>Natural Product Communications</i> , 2012, 7, 289-91.	0.2	24
68	Inclusion of chemotherapeutic agents in substituted β -cyclodextrin derivatives. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 69, 303-307.	1.6	23
69	Transfection of luciferase DNA into various cells by cationic cyclodextrin polyrotaxanes derived from ionene-11. <i>Journal of Materials Chemistry</i> , 2012, 22, 8558.	6.7	23
70	Carboxylated polymers functionalized by cyclodextrins for the stabilization of highly efficient rhodium(0) nanoparticles in aqueous phase catalytic hydrogenation. <i>Dalton Transactions</i> , 2012, 41, 13359.	1.6	23
71	Synthese wasserlöslicher Einschlußverbindungen aus Polyamiden und Cyclodextrinen durch Festkörperpolykondensation. <i>Angewandte Chemie</i> , 1996, 108, 2274-2277.	1.6	22
72	Cyclodextrin polyrotaxanes assembled from a molecular construction kit in aqueous solution. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6333-6341.	2.5	18

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73	Cyclodextrin-based star polymers as a versatile platform for nanochemotherapeutics: Enhanced entrapment and uptake of idarubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 129, 30-38.	2.5	18
74	Optically Active Isoprene(tricarbonyl)iron(0) and Methyltrimethylenemethane(tricarbonyl)iron(0). <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 1657-1659.	4.4	17
75	Surface modification of thin polystyrene films. <i>Colloid and Polymer Science</i> , 1999, 277, 673-679.	1.0	17
76	Gaschromatographische Bestimmung der Enantiomerezusammensetzung von Epoxyalkoholen. <i>Angewandte Chemie</i> , 1989, 101, 180-181.	1.6	16
77	Synthesis of highly water-soluble cyclodextrin sulfonates by addition of hydrogen sulfite to cyclodextrin allyl ethers. <i>Carbohydrate Research</i> , 1999, 322, 153-165.	1.1	16
78	Enhanced uptake and siRNA-mediated knockdown of a biologically relevant gene using cyclodextrin polyrotaxane. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2590-2598.	2.9	16
79	Modification of Galactitol Dehydrogenase from <i>Rhodobacter sphaeroides</i> D for Immobilization on Polycrystalline Gold Surfaces. <i>Langmuir</i> , 2009, 25, 12380-12386.	1.6	15
80	Solubilization of Polycyclic Aromatics in Water by β -Cyclodextrin Derivatives. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2390-2399.	1.7	15
81	Association Thickener by Host-Guest Interaction of β -Cyclodextrin Polymers and Guest Polymers. <i>ACS Symposium Series</i> , 2000, , 271-283.	0.5	14
82	A Comparison Investigation on the Solubilization of Betulin and Betulinic Acid in Cyclodextrin Derivatives. <i>Natural Product Communications</i> , 2012, 7, 1934578X1200700.	0.2	14
83	Synthesis and SAM formation of water soluble functional carboxymethylcelluloses: thiosulfates and thioethers. <i>Cellulose</i> , 2005, 12, 85-96.	2.4	13
84	Site-specific conjugation of 8-ethynyl-BODIPY to a protein by [2 + 3] cycloaddition. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6728-6736.	1.5	13
85	Rotaxanation of Polyisoprene to Render it Soluble in Water. <i>Macromolecules</i> , 2017, 50, 1312-1318.	2.2	13
86	Synthesis and in vitro evaluation of cyclodextrin hyaluronic acid conjugates as a new candidate for intestinal drug carrier for steroid hormones. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 143, 105181.	1.9	12
87	Influence of the Ring Size on the Behavior of Polymeric Inclusion Compounds at Mica Surfaces. <i>Langmuir</i> , 2000, 16, 5311-5316.	1.6	11
88	Synthesis and SAM formation of water soluble functional carboxymethylcelluloses: thiosulfates and thioethers. <i>Cellulose</i> , 2005, 12, 85-96.	2.4	11
89	Self-assembly of biotin and thio-functionalized carboxymethyl celluloses on gold and molecular recognition of streptavidin detected by surface plasmon resonance. <i>Cellulose</i> , 2007, 14, 89-98.	2.4	11
90	Recognition of Monomers and Polymers by Cyclodextrins. <i>Advances in Polymer Science</i> , 2009, , 204-254.	0.4	11

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91	Synthesis and Mechanical Properties of Organic-Inorganic Hybrid Materials from Lignin and Polysiloxanes. <i>ChemSusChem</i> , 2012, 5, 1778-1786.	3.6	11
92	Topochemical control of the photodimerization of aromatic compounds by β -cyclodextrin thioethers in aqueous solution. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1858-1866.	1.3	11
93	Single-molecule force spectroscopy of fast reversible bonds. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5239-5245.	1.3	11
94	Gas Chromatographic Determination of the Enantiomeric Composition of Epoxy Alcohols. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 178-179.	4.4	10
95	Topochemische Aspekte der Erzeugung von vernetzten Strukturen in Langmuir-Blodgett(LB)-Schichtsystemen. <i>Angewandte Chemie</i> , 1995, 107, 363-366.	1.6	10
96	Assembly of a fluorescent cyclodextrin polyrotaxane and its detection by fluorescence microscopy. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6223-6230.	2.5	10
97	Synthesis of uniform cyclodextrin thioethers to transport hydrophobic drugs. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2920-2927.	1.3	10
98	Polyester-idarubicin nanoparticles and a polymer-photosensitizer complex as potential drug formulations for cell-mediated drug delivery. <i>International Journal of Pharmaceutics</i> , 2014, 474, 70-79.	2.6	10
99	Synthesis of the anionic hydroxypropyl- β -cyclodextrin:poly(decamethylenephosphate) polyrotaxane and evaluation of its cholesterol efflux potential in Niemann-Pick C1 cells. <i>Journal of Materials Chemistry B</i> , 2019, 7, 528-537.	2.9	10
100	Multivalent Adhesion and Friction Dynamics Depend on Attachment Flexibility. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15888-15896.	1.5	9
101	Title is missing!. <i>Acta Polymerica</i> , 1997, 48, 142-148.	1.4	8
102	Friction Mediated by Redox-Active Supramolecular Connector Molecules. <i>Langmuir</i> , 2015, 31, 10708-10716.	1.6	7
103	One-pot synthesis of block-copolyrotaxanes through controlled <i>rotaxa</i> -polymerization. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1310-1315.	1.3	7
104	Photochemische Synthese von Polyrotaxanen aus Stilbenpolymeren und Cyclodextrinen. <i>Angewandte Chemie</i> , 1997, 109, 2618-2621.	1.6	6
105	Formation of dense cellulose monolayers on silver surfaces. <i>Journal of the Brazilian Chemical Society</i> , 2000, 11, 11.	0.6	6
106	Combined similarity and QSPR virtual screening for guest molecules of β -cyclodextrin. <i>New Journal of Chemistry</i> , 2007, 31, 1941.	1.4	6
107	Conjugates of methylated cyclodextrin derivatives and hydroxyethyl starch (HES): Synthesis, cytotoxicity and inclusion of anaesthetic actives. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 3087-3096.	1.3	6
108	Translocation of alkali metal cations by lipophilic cyclodextrin derivatives through black lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1368, 35-40.	1.4	5

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109	Water-soluble, cyclodextrin-functionalized semiconductor nanocrystals: Preparation and pH-dependent aggregation and emission properties. <i>Journal of Luminescence</i> , 2009, 129, 1428-1434.	1.5	5
110	Monolayers of reactive cellulose derivatives. <i>Macromolecular Symposia</i> , 2004, 210, 203-208.	0.4	4
111	Interactions between shape-persistent macromolecules as probed by AFM. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 938-951.	1.3	4
112	Molecular kinetics and cooperative effects in friction and adhesion of fast reversible bonds. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17170-17175.	1.3	4
113	Reversible immobilization of a protein to a gold surface through multiple host-guest interactions. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6148-6155.	2.9	4
114	Superstructures with cyclodextrins: Chemistry and applications II. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 271-272.	1.3	3
115	Superstructures with cyclodextrins: Chemistry and applications IV. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2157-2159.	1.3	3
116	Synthesis of Poly(Methyl Methacrylate)-Based Polyrotaxane via Reversible Addition-Fragmentation Chain Transfer Polymerization. <i>ACS Macro Letters</i> , 2020, 9, 1853-1857.	2.3	3
117	Solvent Extraction of Alkali Metal Picrates by Lipophilic Cyclodextrin Derivatives. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1997, 28, 349-358.	1.6	2
118	Directed Immobilisation of Modified Galactitol-Dehydrogenase on Gold Electrodes for Electrochemical Cofactor Regeneration. <i>ECS Transactions</i> , 2010, 25, 13-20.	0.3	2
119	Superstructures with cyclodextrins: chemistry and applications III. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 937-938.	1.3	1
120	Characterization of Cyclodextrin Derivatives by the Reductive-Cleavage Method. , 1988, , 145-149.		1