

Richard M Kellogg

List of Publications by Year in descending order

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61857

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114
all docs

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of a Single Solid Chiral State from a Nearly Racemic Amino Acid Derivative. <i>Journal of the American Chemical Society</i> , 2008, 130, 1158-1159.	6.6	424
2	Cyclic Bis-Urea Compounds as Gelators for Organic Solvents. <i>Chemistry - A European Journal</i> , 1999, 5, 937-950.	1.7	346
3	Conformational study of cinchona alkaloids. A combined NMR, molecular mechanics and x-ray approach. <i>Journal of the American Chemical Society</i> , 1989, 111, 8069-8076.	6.6	275
4	Efficient Intermolecular Charge Transport in Self-Assembled Fibers of Mono- and Bithiophene Bisurea Compounds. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1393-1397.	7.2	274
5	Chiral Recognition in Bis-Urea-Based Aggregates and Organogels through Cooperative Interactions. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 613-616.	7.2	260
6	Self-Assembly of Bisurea Compounds in Organic Solvents and on Solid Substrates. <i>Chemistry - A European Journal</i> , 1997, 3, 1238-1243.	1.7	235
7	An assessment of the causes of the "cesium effect". <i>Journal of Organic Chemistry</i> , 1987, 52, 4230-4234.	1.7	224
8	Complete chiral symmetry breaking of an amino acid derivative directed by circularly polarized light. <i>Nature Chemistry</i> , 2009, 1, 729-732.	6.6	210
9	The Family Approach to the Resolution of Racemates. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2349-2354.	7.2	196
10	Rheology and Thermotropic Properties of Bis-Urea-Based Organogels in Various Primary Alcohols. <i>Langmuir</i> , 2000, 16, 9249-9255.	1.6	186
11	From Ostwald Ripening to Single Chirality. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9600-9606.	7.2	183
12	Geminal Bis-ureas as Gelators for Organic Solvents: Gelation Properties and Structural Studies in Solution and in the Gel State. <i>Chemistry - A European Journal</i> , 2000, 6, 2633-2643.	1.7	181
13	The molecules R ₂ CXCR ₂ including azomethine, carbonyl and thiocarbonyl ylides. Their syntheses, properties and reactions. <i>Tetrahedron</i> , 1976, 32, 2165-2184.	1.0	163
14	Conformational study of cinchona alkaloids. A combined NMR and molecular orbital approach. <i>Journal of Organic Chemistry</i> , 1990, 55, 6121-6131.	1.7	158
15	Cesium carboxylates in dimethyl formamide. Reagents for introduction of hydroxyl groups by nucleophilic substitution and for inversion of configuration of secondary alcohols. <i>Journal of Organic Chemistry</i> , 1981, 46, 4321-4323.	1.7	156
16	The Driving Mechanism Behind Attrition-Enhanced Deracemization. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8435-8438.	7.2	139
17	Preparation of macrocyclic lactones by ring closure of cesium carboxylates. <i>Journal of the American Chemical Society</i> , 1981, 103, 5183-5189.	6.6	133
18	Pasteur's Tweezers Revisited: On the Mechanism of Attrition-Enhanced Deracemization and Resolution of Chiral Conglomerate Solids. <i>Journal of the American Chemical Society</i> , 2012, 134, 12629-12636.	6.6	130

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19	Synthesis of (racemization prone) optically active thiols by SN2 substitution using cesium thiocarboxylates. <i>Journal of Organic Chemistry</i> , 1986, 51, 3664-3671.	1.7	125
20	Highly Enantioselective and Regioselective Biocatalytic Azidolysis of Aromatic Epoxides. <i>Organic Letters</i> , 2001, 3, 41-43.	2.4	119
21	Attrition-Enhanced Deracemization of an Amino Acid Derivative That Forms an Epitaxial Racemic Conglomerate. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7226-7229.	7.2	118
22	Explanation for the Emergence of a Single Chiral Solid State during Attrition-Enhanced Ostwald Ripening: Survival of the Fittest. <i>Crystal Growth and Design</i> , 2008, 8, 1675-1681.	1.4	118
23	Remarkable Polymorphism in Gels of New Azobenzene Bis-urea Gelators. <i>Langmuir</i> , 2002, 18, 7136-7140.	1.6	117
24	Attrition-Enhanced Deracemization in the Synthesis of Clopidogrel - A Practical Application of a New Discovery. <i>Organic Process Research and Development</i> , 2009, 13, 1195-1198.	1.3	115
25	Chemistry of dihydropyridines. 9. Hydride transfer from 1,4-dihydropyridines to sp ³ -hybridized carbon in sulfonium salts and activated halides. Studies with NAD(P)H models. <i>Journal of Organic Chemistry</i> , 1979, 44, 4953-4962.	1.7	109
26	Complete Deracemization by Attrition-Enhanced Ostwald Ripening Elucidated. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6445-6447.	7.2	106
27	Reductions of activated carbonyl compounds with chiral-bridged 1,4-dihydropyridines. An investigation of scope and structural effects. <i>Journal of the American Chemical Society</i> , 1985, 107, 3981-3997.	6.6	92
28	Fast Attrition-Enhanced Deracemization of Naproxen by a Gradual In-Situ Feed. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4581-4583.	7.2	91
29	Nonionic Bolaamphiphiles and Gemini Surfactants Based on Carbohydrates. <i>Langmuir</i> , 1997, 13, 6857-6860.	1.6	79
30	Complete Chiral Resolution Using Additive-Induced Crystal Size Bifurcation During Grinding. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3278-3280.	7.2	71
31	Photochemistry of thiophenes. IV. Scope of arylthiophene rearrangements. <i>Journal of the American Chemical Society</i> , 1967, 89, 3487-3494.	6.6	69
32	Dutch Resolution: Separation of Enantiomers with Families of Resolving Agents. A Status Report. <i>Synthesis</i> , 2003, 2003, 1626-1638.	1.2	69
33	Conformational analysis of some chiral catalysts of the cinchona ¹ and ephedra ² family. The alkaloid catalyzed addition of aromatic thiols to cyclic α,β -unsaturated ketones. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1989, 108, 195-204.	0.0	67
34	New methodologies for enantiomeric excess (ee) determination based on phosphorus NMR. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1995, 114, 115-138.	0.0	64
35	The Role of Nucleation Inhibition in Optical Resolutions with Families of Resolving Agents. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4281-4286.	7.2	60
36	Mesogenic sugars. From aldoses to liquid crystals and surfactants. <i>Chemical Society Reviews</i> , 2000, 29, 183-199.	18.7	58

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37	Chiral Macrocycles as Reagents and Catalysts. <i>Angewandte Chemie International Edition in English</i> , 1984, 23, 782-794.	4.4	54
38	Spontaneous Deracemization. <i>Israel Journal of Chemistry</i> , 2011, 51, 1034-1040.	1.0	49
39	The scope and limitations of liquid-crystalline behaviour in monosaccharide amphiphiles Comparison of the thermal behaviour of several homologous series of D-glucose derived compounds with an amino-linked alkyl chain. <i>Liquid Crystals</i> , 1990, 8, 109-121.	0.9	46
40	Dutch Resolution of Racemates and the Roles of Solid Solution Formation and Nucleation Inhibition. <i>Topics in Current Chemistry</i> , 2007, 269, 159-197.	4.0	46
41	Synthesis of β -crown ether TM macrocyclic bislactones using caesium carboxylates of pyridine and of benzene dicarboxylic acids. <i>Journal of the Chemical Society Chemical Communications</i> , 1978, , 383-384.	2.0	45
42	Chiral (macrocyclic) sulfide- and sulfide/alkylamino-containing ligands for nickel-catalyzed Grignard cross-coupling reactions. <i>Journal of Organic Chemistry</i> , 1986, 51, 5169-5177.	1.7	43
43	Self-assembly of an asymmetrically functionalized [6]helicene at liquid/solid interfaces. <i>Chemical Communications</i> , 2013, 49, 2207.	2.2	43
44	Nontrivial Differentiation between Two Identical Functionalities within the Same Molecule Studied by STM. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8981-8987.	1.2	41
45	The Crystallization Behavior of Proline and Its Role in Asymmetric Organocatalysis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 494-497.	7.2	41
46	Enantioselective Symmetry Breaking Directed by the Order of Process Steps. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2539-2541.	7.2	41
47	Synthesis and mesogenic properties of several homologous series of aldose dialkyl dithioacetals. A model for their behaviour. <i>Liquid Crystals</i> , 1989, 5, 265-283.	0.9	40
48	Controlling the Effect of Chiral Impurities on Viedma Ripening. <i>Crystal Growth and Design</i> , 2013, 13, 4776-4780.	1.4	36
49	Van der Waals interactions in the self-assembly of 5-amino[6]helicene on Cu(100) and Au(111). <i>Chemical Communications</i> , 2014, 50, 13907-13909.	2.2	36
50	Caesium salts in crown ether synthesis. Preparation of crown ethers from catechol, resorcinol, salicylic acid, and 2,3-dihydropyridine. <i>Journal of the Chemical Society Chemical Communications</i> , 1979, , 285.	2.0	35
51	Improved Synthesis of C ₂ -Symmetrical Pyridinediols and Synthesis of C _s -Symmetrical Pyridinediols. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 2735-2743.	1.2	35
52	The Dutch Resolution Variant of the Classical Resolution of Racemates by Formation of Diastereomeric Salts: Family Behaviour in Nucleation Inhibition. <i>Chemistry - A European Journal</i> , 2005, 11, 5619-5624.	1.7	35
53	Remarkable O ₂ -Effect in 1,4-Additions of Diethylzinc to 6-Acyloxy-2H-pyran-3(6H)-ones and 6-Alkoxy-2H-pyran-3(6H)-ones. <i>Organic Letters</i> , 2000, 2, 1593-1595.	2.4	34
54	Methylphosphonic dichloride as reagent for the determination of the enantiomeric excess of chiral thiols. scope and limitations. <i>Tetrahedron</i> , 1987, 43, 123-130.	1.0	33

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55	A comparative study of the liquid-crystalline behavior of three homologous series of 1,2-propanediol derivatives. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1990, 109, 197-203.	0.0	33
56	Structural Aspects of Nucleation Inhibitors for Diastereomeric Resolutions and the Relationship to Dutch Resolution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1287-1290.	7.2	32
57	The Strecker reaction coupled to Viedma ripening: a simple route to highly hindered enantiomerically pure amino acids. <i>Chemical Communications</i> , 2018, 54, 10832-10834.	2.2	32
58	Diastereoselective Addition of Allylzinc Bromide to Imines Derived from (R)-Phenylglycine Amide. <i>Organic Letters</i> , 2001, 3, 3943-3946.	2.4	31
59	Attrition Induced Deracemisation of 2-Fluorophenylglycine. <i>Organic Process Research and Development</i> , 2015, 19, 302-308.	1.3	31
60	Chirale Makrocyclen als Reagentien und Katalysatoren. <i>Angewandte Chemie</i> , 1984, 96, 769-781.	1.6	29
61	A Simple One-Step Synthesis of Symmetrical Thiocrown Ethers and the Molecular Structure of an Unusual Sandwich-like Tetrametallic Silver Thiocrown Ether Complex. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 436-439.	4.4	27
62	A Viedma ripening route to an enantiopure building block for Levetiracetam and Brivaracetam. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 35-38.	1.5	25
63	Resolution of Omeprazole Using Coupled Preferential Crystallization: Efficient Separation of a Nonracemizable Conglomerate Salt under Near-Equilibrium Conditions. <i>Organic Process Research and Development</i> , 2013, 17, 946-950.	1.3	23
64	Combining Incompatible Processes for Deracemization of a Praziquantel Derivative under Flow Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5279-5282.	7.2	22
65	Synthesis of enantiomerically pure (R)- and (S)-2-sulfanylpropanoic acids (thiolactic acid™) from ethyl (S)-lactate using pig liver esterase. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995, , 1247-1249.	0.9	21
66	Synthesis, Properties, and Two-Dimensional Adsorption Characteristics of 5-Amino[6]hexahelicene. <i>Chemistry - A European Journal</i> , 2016, 22, 1484-1492.	1.7	21
67	Efficient Havinga-Kondepudi resolution of conglomerate amino acid derivatives by slow cooling and abrasive grinding. <i>CrystEngComm</i> , 2010, 12, 2051.	1.3	20
68	Solution-Phase Racemization in the Presence of an Enantiopure Solid Phase. <i>Chemistry - A European Journal</i> , 2010, 16, 4932-4937.	1.7	19
69	Stereochemical evidence for the formation of intermediates in the ene reaction of singlet oxygen with tetraalkyl-substituted alkenes. <i>Journal of Organic Chemistry</i> , 1982, 47, 1250-1257.	1.7	18
70	Practical Stereochemistry. <i>Accounts of Chemical Research</i> , 2017, 50, 905-914.	7.6	18
71	The Role of Nucleation Inhibition in Optical Resolutions with Families of Resolving Agents. <i>Angewandte Chemie</i> , 2002, 114, 4457-4462.	1.6	17
72	Palladium-catalyzed allylation of α -hydroxy acids. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1992, 111, 129-137.	0.0	17

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73	Chiral expression of adsorbed (MP) 5-amino[6]helicenes: from random structures to dense racemic crystals by surface alloying. <i>Chemical Communications</i> , 2017, 53, 130-133.	2.2	17
74	Evidence for β -lactone formation in the thioacetylation of some α -hydroxy acids with the aid of <i>cis</i> -Mitsunobu-type reagent. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1987, 106, 539-542.	0.0	16
75	Application of the Mitsunobu reaction to ephedrine and some related amino alcohols. Aspects of intramolecular participation of the amino group. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1994, 113, 355-364.	0.0	16
76	The Resolution of 2-Hydroxy-5,5-dimethyl-4-phenyl-1,3,2-dioxaphosphorinan 2-Oxide (Phencyphos) by Preferential Crystallization. <i>Organic Process Research and Development</i> , 2009, 13, 1379-1381.	1.3	16
77	Solid state deracemisation of two imine-derivatives of phenylglycine derivatives <i>via</i> high-pressure homogenisation and temperature cycles. <i>CrystEngComm</i> , 2018, 20, 3828-3838.	1.3	15
78	Reaction of singlet oxygen with conformationally fixed cyclohexylidencyclohexanes. Failure of an all suprafacial mechanism. <i>Journal of Organic Chemistry</i> , 1975, 40, 2575-2576.	1.7	13
79	How to Use Pasteur's Tweezers. , 2015, , 421-443.		13
80	α -Aryl- β -dimethyl- γ -propanediols as chiral auxiliaries. Acetal formation with α -unsaturated aldehydes and analysis of the stereochemistry of cyclopropanation. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1990, 109, 552-560.	0.0	12
81	Easy preparation of enantiopure <i>cis</i> -symmetrical hydroxy and amino sulfides derived from ephedrine and their application in a Pd catalyzed coupling reaction. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1996, 115, 49-55.	0.0	11
82	Enantiospecific Solid Solution Formation Triggers the Propagation of Homochirality. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20885-20889.	7.2	11
83	Alkylation of the Si-S linkage. Towards lipophilic mono- and ditopic heavy-metal receptors containing trithiane building blocks. Molecular structure of <i>cis</i> -2,4,6-tribenzyl-1,3,5-trithiane. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1993, 112, 370-375.	0.0	10
84	A chiral switch: balancing between equilibrium and non-equilibrium states. <i>Chemical Communications</i> , 2019, 55, 6910-6913.	2.2	10
85	Attrition-enhanced total resolution leads to homochiral families of amino acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1191-1193.	1.8	9
86	Family of Conglomerate-Forming Systems Composed of Chlocyphos and Alkyl-amine. Assessment of Their Resolution Performances by Using Various Modes of Preferential Crystallization. <i>Crystal Growth and Design</i> , 2019, 19, 5173-5183.	1.4	9
87	Performance Analysis and Model-Free Design of Deracemization via Temperature Cycles. <i>Organic Process Research and Development</i> , 2020, 24, 1515-1522.	1.3	9
88	Cyclic Bis-Urea Compounds as Gelators for Organic Solvents. , 1999, 5, 937.		8
89	Asymmetric reduction and Meerwein-Ponndorf-Verley reaction of prochiral aromatic ketones in the presence of optically pure α -aryl- β -dimethylpropane- γ -diols. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1996, 115, 410-417.	0.0	7
90	A Chiral Self-Assembled Monolayer Derived from a Resolving Agent and its Performance as a Crystallization Template for an Organic Compound from Organic Solvents. <i>Chemistry - A European Journal</i> , 2012, 18, 15984-15993.	1.7	7

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91	Synthesis, Properties, and Two-Dimensional Adsorption Characteristics of [6]Hexahelicene-7-carboxylic acid. <i>Chemistry - A European Journal</i> , 2016, 22, 14633-14639.	1.7	7
92	Evidence of Conglomerate with Partial Solid Solutions in Ethylammonium Chlocyphos. <i>Crystal Growth and Design</i> , 2020, 20, 2562-2569.	1.4	7
93	Nucleophilic substitutions using <i>O</i> -alkyl- <i>N,N</i> -dialkylisoureas. Applications to ephedrine. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1994, 113, 365-368.	0.0	6
94	Chemo- and diastereoselective cyclic ketalization of optically pure 1-caryla-2,2-dimethylpropane-1,3-diols with phenylglyoxal. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1996, 115, 407-409.	0.0	6
95	Near absolute regio-, diastereo-, and enantioselectivity in a palladium: Catalyzed alkylation using an uncommon chiral auxiliary. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1992, 111, 56-57.	0.0	5
96	Enantiospecific Solid Solution Formation Triggers the Propagation of Homochirality. <i>Angewandte Chemie</i> , 2020, 132, 21071-21075.	1.6	5
97	Nucleation inhibition in attrition-enhanced Pope-Peachey type of diastereomeric resolutions. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1363-1364.	1.8	4
98	(<i>S</i>)-2-chloropropanoyl chloride. A convenient reagent for the determination of the enantiomeric composition of \pm -substituted \pm -hydroxy acids. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1990, 109, 479-480.	0.0	4
99	The enantiomeric excess determination and dynamic behaviour of cyclic phosphoric acids used for resolution. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 1995, 114, 220-224.	0.0	3
100	Localized Crystallization of Enantiomeric Organic Compounds on Chiral Micro-patterns from Various Organic Solutions. <i>Chemistry - A European Journal</i> , 2014, 20, 10466-10474.	1.7	3
101	Efficient Intermolecular Charge Transport in Self-Assembled Fibers of Mono- and Bithiophene Bisurea Compounds. , 1999, 38, 1393.		3
102	Macroheterocycles: Synthesis and applications as complexing agents, enzyme mimics and catalysts. <i>Bulletin Des Sociétés Chimiques Belges</i> , 1990, 99, 703-705.	0.0	2
103	Combining Incompatible Processes for Deracemization of a Praziquantel Derivative under Flow Conditions. <i>Angewandte Chemie</i> , 2021, 133, 5339-5342.	1.6	2
104	Counteracting Enantiospecific Behavior of Tailor-Made Additives During Chiral Symmetry Breaking: Growth Inhibition versus Solid-Solution Formation. <i>Israel Journal of Chemistry</i> , 2021, 61, 645.	1.0	0
105	New Developments in Crystallization-Induced Resolution. , 2005, , 97-116.		0