

# Dieter Seebach

## List of Publications by Citations

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#	Paper	IF	Citations
470	Peptide Folding: When Simulation Meets Experiment. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 236-240	16.4	1258
469	Methods of Reactivity Umpolung. <i>Angewandte Chemie International Edition in English</i> , <b>1979</b> , 18, 239-258		975
468	The world of beta- and gamma-peptides comprised of homologated proteinogenic amino acids and other components. <i>Chemistry and Biodiversity</i> , <b>2004</b> , 1, 1111-239	2.5	824
467	β-Peptides: a surprise at every turn. <i>Chemical Communications</i> , <b>1997</b> , 2015-2022	5.8	687
466	Structure and Reactivity of Lithium Enolates. From Pinacolone to Selective C-Alkylations of Peptides. Difficulties and Opportunities Afforded by Complex Structures. <i>Angewandte Chemie International Edition in English</i> , <b>1988</b> , 27, 1624-1654		672
465	β-Peptides: Synthesis by Arndt-Eistert homologation with concomitant peptide coupling. Structure determination by NMR and CD spectroscopy and by X-ray crystallography. Helical secondary structure of a β-hexapeptide in solution and its stability towards pepsin. <i>Helvetica Chimica Acta</i> , <b>1996</b> , 79, 913-941	2	605
464	Beta-peptidic peptidomimetics. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 1366-75	24.3	592
463	Methoden der Reaktivitätsumpolung. <i>Angewandte Chemie</i> , <b>1979</b> , 91, 259-278	3.6	469
462	TADDOLs, Their Derivatives, and TADDOL Analogues: Versatile Chiral Auxiliaries. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 92-138	16.4	440
461	Organic Synthesis Where now?. <i>Angewandte Chemie International Edition in English</i> , <b>1990</b> , 29, 1320-1367		436
460	Self-Regeneration of Stereocenters (SRS) Applications, Limitations, and Abandonment of a Synthetic Principle. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 2708-2748		407
459	Synthesis of Open-Chain 2,3-Disubstituted 4-nitroketones by Diastereoselective Michael-addition of (E)-Enamines to (E)-Nitroolefins. A topological rule for C, C-bond forming processes between prochiral centres. Preliminary communication. <i>Helvetica Chimica Acta</i> , <b>1981</b> , 64, 1413-1423	2	353
458	Reversible peptide folding in solution by molecular dynamics simulation. <i>Journal of Molecular Biology</i> , <b>1998</b> , 280, 925-32	6.5	340
457	The Outstanding Biological Stability of β- and β-Peptides toward Proteolytic Enzymes: An In Vitro Investigation with Fifteen Peptidases. <i>ChemBioChem</i> , <b>2001</b> , 2, 445-455	3.8	335
456	Alkylation of amino acids without loss of the optical activity: preparation of α-substituted proline derivatives. A case of self-reproduction of chirality. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 5390-5398	16.4	334
455	Helices and other secondary structures of beta- and gamma-peptides. <i>Biopolymers</i> , <b>2006</b> , 84, 23-37	2.2	297
454	Probing the Helical Secondary Structure of Short-Chain β-Peptides. <i>Helvetica Chimica Acta</i> , <b>1996</b> , 79, 2043-2066	2	294

453	α- and β-Peptides with Proteinaceous Side Chains: Synthesis and solution structures of constitutional isomers, a novel helical secondary structure and the influence of solvation and hydrophobic interactions on folding. <i>Helvetica Chimica Acta</i> , <b>1998</b> , 81, 932-982	2	287
452	Poly(hydroxyalkanoates): A Fifth Class of Physiologically Important Organic Biopolymers?. <i>Angewandte Chemie International Edition in English</i> , <b>1993</b> , 32, 477-502		286
451	Beta2-amino acids-syntheses, occurrence in natural products, and components of beta-peptides <sup>1,2</sup> . <i>Biopolymers</i> , <b>2004</b> , 76, 206-43	2.2	274
450	Struktur und Reaktivität von Lithiumenolaten, vom Pinakolon zur selektiven C-Alkylierung von Peptiden Schwierigkeiten und Möglichkeiten durch komplexe Strukturen. <i>Angewandte Chemie</i> , <b>1988</b> , 100, 1685-1715	3.6	272
449	Alkylation of heterosubstituted carboxylic acids without racemization. <i>Tetrahedron</i> , <b>1984</b> , 40, 1313-1324		245
448	. <i>European Journal of Organic Chemistry</i> , <b>2000</b> , 2000, 1-15	3.2	240
447	Chirale Alkoxytitan(IV)-Komplexe für enantioselektive nucleophile Additionen an Aldehyde und als Lewis-Säuren in Diels-Alder-Reaktionen. <i>Helvetica Chimica Acta</i> , <b>1987</b> , 70, 954-974	2	238
446	The Unambiguous Specification of the Steric Course of Asymmetric Syntheses. <i>Angewandte Chemie International Edition in English</i> , <b>1982</b> , 21, 654-660		235
445	Titanate-Mediated Transesterifications with Functionalized Substrates. <i>Synthesis</i> , <b>1982</b> , 1982, 138-141	2.9	233
444	Herstellung von Hilfsstoffen für die asymmetrische Synthese aus Weinsäure. Addition von Butyllithium an Aldehyde in chiraalem Medium. <i>Helvetica Chimica Acta</i> , <b>1977</b> , 60, 301-325	2	233
443	Pleated Sheets and Turns of α-Peptides with Proteinogenic Side Chains. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 1595-1597	16.4	228
442	Organometallic Compounds of Titanium and Zirconium as Selective Nucleophilic Reagents in Organic Synthesis. <i>Angewandte Chemie International Edition in English</i> , <b>1983</b> , 22, 31-45		223
441	Are Oxazolidinones Really Unproductive, Parasitic Species in Proline Catalysis? Thoughts and Experiments Pointing to an Alternative View. <i>Helvetica Chimica Acta</i> , <b>2007</b> , 90, 425-471	2	211
440	On the Mechanisms of Enantioselective Reactions Using (R,R)-2-Tetraaryl-1,3-dioxolane-4,5-dimethanol(TADDOL)-Derived Titanates: Differences between C2- and C1-symmetrical TADDOLs Facts, implications and generalizations. <i>Helvetica Chimica Acta</i> , <b>1992</b> , 75, 2171-2206	2	206
439	β-Peptides Forming More Stable Secondary Structures than α-Peptides: Synthesis and helical NMR-solution structure of the hexapeptide analog of H-(Val-Ala-Leu) <sub>2</sub> -OH. <i>Helvetica Chimica Acta</i> , <b>1998</b> , 81, 983-1002	2	203
438	Cyclo-β-peptides: Structure and tubular stacking of cyclic tetramers of 3-aminobutanoic acid as determined from powder diffraction data. <i>Helvetica Chimica Acta</i> , <b>1997</b> , 80, 173-182	2	193
437	Polymer- and Dendrimer-Bound Ti-TADDOLates in Catalytic (and Stoichiometric) Enantioselective Reactions: Are pentacoordinate cationic Ti complexes the catalytically active species?. <i>Helvetica Chimica Acta</i> , <b>1996</b> , 79, 1710-1740	2	190
436	α-Peptides as Inhibitors of Small-Intestinal Cholesterol and Fat Absorption. <i>Helvetica Chimica Acta</i> , <b>1999</b> , 82, 1774-1783	2	188

435	Spezifikation des sterischen Verlaufs von asymmetrischen Synthesen. <i>Angewandte Chemie</i> , <b>2006</b> , 94, 696-702	3.6	180
434	Addition of Chiral Glycine, Methionine, and Vinylglycine Enolate Derivatives to Aldehydes and Ketones in the Preparation of Enantiomerically Pure $\alpha$ -Amino- $\beta$ -Hydroxy Acids. <i>Helvetica Chimica Acta</i> , <b>1987</b> , 70, 237-261	2	179
433	Über die Wechselwirkung zwischen Lithium-enolaten und sekundären Aminen in Lösung und im Kristall. <i>Helvetica Chimica Acta</i> , <b>1985</b> , 68, 1373-1393	2	175
432	The beta-peptide hairpin in solution: conformational study of a beta-hexapeptide in methanol by NMR spectroscopy and MD simulation. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 2393-404	16.4	174
431	Organocatalyzed Michael Addition of Aldehydes to Nitro Alkenes – Generally Accepted Mechanism Revisited and Revised. <i>Helvetica Chimica Acta</i> , <b>2011</b> , 94, 719-745	2	173
430	Enantio- and diastereoselective titanium-TADDOLate catalyzed addition of diethyl and bis(3-buten-1-yl) zinc to aldehydes a full account with preparative details. <i>Tetrahedron</i> , <b>1994</b> , 50, 4363-4384	2.4	170
429	Resolution and use in $\alpha$ -amino acid synthesis of imidazolidinone glycine derivatives. <i>Tetrahedron</i> , <b>1988</b> , 44, 5277-5292	2.4	169
428	A Useful Modification of the Evans Auxiliary: 4-Isopropyl-5,5-diphenyloxazolidin-2-one. <i>Helvetica Chimica Acta</i> , <b>1998</b> , 81, 2093-2126	2	168
427	Umpolung of Amine Reactivity. Nucleophilic $\alpha$ -(Secondary Amino)-alkylation via Metalated Nitrosamines. <i>Angewandte Chemie International Edition in English</i> , <b>1975</b> , 14, 15-32		165
426	Ti-TADDOLate-catalyzed, highly enantioselective addition of alkyl- and aryl-titanium derivatives to aldehydes. <i>Tetrahedron</i> , <b>1994</b> , 50, 7473-7484	2.4	162
425	Synthesis and Biological Evaluation of a Cyclo- $\beta$ -tetrapeptide as a Somatostatin Analogue. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 1223-1226	16.4	159
424	Über die Depolymerisierung von Poly-(R)-3-hydroxy-buttersäureester (PHB). <i>Helvetica Chimica Acta</i> , <b>1982</b> , 65, 495-503	2	158
423	Organische Synthese – wohin?. <i>Angewandte Chemie</i> , <b>1990</b> , 102, 1363-1409	3.6	155
422	Isolation and X-Ray Structures of Reactive Intermediates of Organocatalysis with Diphenylprolinol Ethers and with Imidazolidinones. <i>Helvetica Chimica Acta</i> , <b>2008</b> , 91, 1999-2034	2	153
421	Organometallverbindungen von Titan und Zirconium als selektive nucleophile Reagentien für die Organische Synthese. <i>Angewandte Chemie</i> , <b>1983</b> , 95, 12-26	3.6	152
420	$\beta$ -Mixed- $\beta$ -peptides: A unique helical secondary structure in solution. Preliminary communication. <i>Helvetica Chimica Acta</i> , <b>1997</b> , 80, 2033-2038	2	151
419	Structures of the Reactive Intermediates in Organocatalysis with Diarylprolinol Ethers. <i>Helvetica Chimica Acta</i> , <b>2009</b> , 92, 1225-1259	2	148
418	Can one derive the conformational preference of a beta-peptide from its CD spectrum?. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12972-8	16.4	147

417	Peptide folding induces high and selective affinity of a linear and small beta-peptide to the human somatostatin receptor 4. <i>Journal of Medicinal Chemistry</i> , <b>2001</b> , 44, 2460-8	8.3	147
416	Stereoselektive Alkylierung an C(β) von Serin, Glycerinsäure, Threonin und Weinsäure über heterocyclische Enolate mit exocyclischer Doppelbindung. <i>Helvetica Chimica Acta</i> , <b>1987</b> , 70, 1194-1216	2	147
415	Preparation of N-Fmoc-Protected α- and β-Amino Acids and their use as building blocks for the solid-phase synthesis of α-peptides. <i>Helvetica Chimica Acta</i> , <b>1998</b> , 81, 187-206	2	145
414	Enantioselective Aldol and Michael Additions of Achiral Enolates in the Presence of Chiral Lithium Amides and Amines. <i>Synthesis</i> , <b>1993</b> , 1993, 1271-1290	2.9	144
413	N,O-Acetals from Pivalaldehyde and Amino Acids for the α-Alkylation with Self-Reproduction of the Center of Chirality. Enolates of 3-Benzoyl-2-(tert-butyl)-1,3-oxazolidin-5-ones. <i>Helvetica Chimica Acta</i> , <b>1985</b> , 68, 1243-1250	2	139
412	Enantioselective Generation and Diastereoselective Reactions of Chiral Enolates Derived from β-Heterosubstituted Carboxylic Acids. Preliminary Communication. <i>Helvetica Chimica Acta</i> , <b>1981</b> , 64, 2704-2708	2	138
411	Brom-Lithium-Austausch an Vinyl- und Aryl-bromiden mit tert-Butyllithium Zur Ringerweiterung über Dibromcarbenaddukte. <i>Chemische Berichte</i> , <b>1974</b> , 107, 847-853		132
410	Catalytic and Stoichiometric Enantioselective Addition of Diethylzinc to Aldehydes Using a Novel Chiral Spirotitanate. <i>Angewandte Chemie International Edition in English</i> , <b>1991</b> , 30, 99-101		131
409	Gamma2-, gamma3-, and gamma(2,3,4)-amino acids, coupling to gamma-hexapeptides: CD spectra, NMR solution and X-ray crystal structures of gamma-peptides. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 573-84	4.8	130
408	TADDOLe, ihre Derivate und Analoga Vielseitige chirale Hilfsstoffe. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 96-142	3.6	129
407	cis-Stilbene and (1 alpha,2 beta,3 alpha)-(2-ethenyl-3-methoxycyclopropyl)benzene as mechanistic probes in the Mn(III)(salen)-catalyzed epoxidation: influence of the oxygen source and the counterion on the diastereoselectivity of the competitive concerted and radical-type oxygen transfer. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 5068-73	16.4	129
406	On the Ti-TADDOLate-Catalyzed Diels-Alder Addition of 3-Butenoyl-1,3-oxazolidin-2-one to Cyclopentadiene. General Features of Ti-BINOLate- and Ti-TADDOLate-Mediated Reactions. <i>Journal of Organic Chemistry</i> , <b>1995</b> , 60, 1788-1799	4.2	128
405	Brom/Lithium-Austausch an Vinylbromiden mit 2 Moläquiv. tert-Butyllithium. Umsetzungen von Vinylolithiumverbindungen mit Hetero- und Kohlenstoff-Elektrophilen. <i>Chemische Berichte</i> , <b>1978</b> , 111, 2785-2812		127
404	Cellular uptake studies with beta-peptides. <i>ChemBioChem</i> , <b>2002</b> , 3, 257-9	3.8	126
403	Enantioselective Preparation of α-Amino Acid Derivatives for α-Peptide Synthesis. <i>Synthesis</i> , <b>2009</b> , 2009, 1-32	2.9	124
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401	Asymmetrische Michael-Additionen. Praktisch vollständig diastereo- und enantioselective Alkylierungen des Enamins aus Cyclohexanon und Prolinylmethyläther durch β-Nitrostyrole zu α-2-(1-aryl-2-nitroethyl)cyclohexanon. <i>Helvetica Chimica Acta</i> , <b>1982</b> , 65, 1637-1654	2	118
400	Preparation and Structural Analysis of Several New β,β-Tetraaryl-1,3-dioxolane-4,5-dimethanols (TADDOL's) and TADDOL analogs, their evaluation as titanium ligands in the enantioselective addition of methyltitanium and diethylzinc reagents to benzaldehyde, and refinement of the mechanistic hypothesis. <i>Helvetica Chimica Acta</i> , <b>1994</b> , 77, 2071-2110	2	116

- 399 Studying the Stability of a Helical  $\alpha$ -Heptapeptide by Molecular Dynamics Simulations. *Chemistry - A European Journal*, **1997**, 3, 1410-1417 4.8 109
- 398 2,2-Dimethyl- $\beta$ , $\beta$ -tetrakis( $\beta$ -naphthyl)-1,3-dioxolan-4,5-dimethanol (DINOL) for the Titanate-Mediated Enantioselective Addition of Diethylzinc to Aldehydes. *Angewandte Chemie International Edition in English*, **1991**, 30, 1321-1323 108
- 397 Generation of secondary, tertiary, and quaternary centers by geminal disubstitution of carbonyl oxygens. *Angewandte Chemie - International Edition*, **2011**, 50, 96-101 16.4 107
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- 390 Alkylation of serine with self-reproduction of the center of chirality. *Tetrahedron Letters*, **1984**, 25, 2545-2548 2 102
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- 388 Preparation and Structure of  $\alpha$ -Peptides Consisting of Geminally Disubstituted  $\alpha$ , $\alpha$ - and  $\beta$ , $\beta$ -Amino Acids: A Turn Motif for  $\alpha$ -Peptides. *Helvetica Chimica Acta*, **1998**, 81, 2218-2243 2 98
- 387 Resolution of racemic carboxylic acid derivatives by Ti-TADDOLate mediated esterification reactions: a general method for the preparation of enantiopure compounds. *Tetrahedron*, **1997**, 53, 7539-7556 2.4 97
- 386 The proteolytic stability of 'designed' beta-peptides containing alpha-peptide-bond mimics and of mixed alpha,beta-peptides: application to the construction of MHC-binding peptides. *Chemistry and Biodiversity*, **2005**, 2, 591-632 2.5 96
- 385 Elektrochemische Decarboxylierung von L.-Threonin- und Oligopeptid-Derivaten unter Bildung von N-Acyl-N, O-acetalen: Herstellung von Oligopeptiden mit Carboxamid- oder Phosphonat-C-Terminus. *Helvetica Chimica Acta*, **1989**, 72, 401-425 2 94
- 384 Titanate-Catalyzed Enantioselective Addition of Dialkylzinc Compounds Generated in situ from Grignard Reagents in Ether to Aldehydes. *Angewandte Chemie International Edition in English*, **1991**, 30, 1008-1009 93
- 383 Antibiotic and hemolytic activity of a beta2/beta3 peptide capable of folding into a 12/10-helical secondary structure. *ChemBioChem*, **2003**, 4, 1345-7 3.8 92
- 382 On the antimicrobial and hemolytic activities of amphiphilic beta-peptides. *ChemBioChem*, **2001**, 2, 771-3.8 91

- 381 Synthesis, Crystal Structures, and Modelling of  $\beta$ -Oligopeptides Consisting of 1-(Aminomethyl)cyclopropanecarboxylic Acid: Ribbon-Type Arrangement of Eight-Membered H-Bonded Rings. *Helvetica Chimica Acta*, **1999**, 82, 1559-1571 2 91
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- 379 Preparation of TADOOH, a Hydroperoxide from TADDOL, and Use in Highly Enantioface- and Enantiomer-Differentiating Oxidations. *Helvetica Chimica Acta*, **2001**, 84, 187-207 2 89
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- 371 Stereochemical Models for Discussing Additions to  $\alpha$ -Unsaturated Aldehydes Organocatalyzed by Diarylprolinol or Imidazolidinone Derivatives Is There an (E)/(Z)-Dilemma? *Helvetica Chimica Acta*, **2010**, 93, 603-634 2 84
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- 368 Synthesis of a  $\beta$ -Hexapeptide from (R)-2-Aminomethyl-alkanoic Acids and Structural Investigations. *Synlett*, **1997**, 1997, 437-438 2.2 83
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- 362 Preparation by yeast reduction and determination of the sense of chirality of enantiomerically pure ethyl [(R)-4,4,4-trichloro-3-hydroxy- and (+)-4,4,4-trifluoro-3-hydroxybutanoate. *Helvetica Chimica Acta*, **1984**, 67, 1843-1853 2 82
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