Horst Kessler

List of Publications by Citations

587 papers	39,483 citations	99 h-index	174 g-index
608 ext. papers	42,136 ext. citations	7.7 avg, IF	7.16 L-index

#	Paper	IF	Citations
587	RGD modified polymers: biomaterials for stimulated cell adhesion and beyond. *Biomaterials*, **2003**, 24, 4385-415	15.6	2065
586	Activation of integrin function by nanopatterned adhesive interfaces. *ChemPhysChem*, **2004**, 5, 383-8	3.2	978
585	Conformation and Biological Activity of Cyclic Peptides. *Angewandte Chemie International Edition in English*, **1982**, 21, 512-523		758
584	Cell spreading and focal adhesion dynamics are regulated by spacing of integrin ligands. *Biophysical Journal*, **2007**, 92, 2964-74	2.9	746
583	N-Methylated cyclic RGD peptides as highly active and selective alpha(V)beta(3) integrin antagonists. *Journal of Medicinal Chemistry*, **1999**, 42, 3033-40	8.3	725
582	Structural and Functional Aspects of RGD-Containing Cyclic Pentapeptides as Highly Potent and Selective Integrin □□Antagonists. *Journal of the American Chemical Society*, **1996**, 118, 7461-7472	16.4	531
581	Detection of Hindered Rotation and Inversion by NMR Spectroscopy. *Angewandte Chemie International Edition in English*, **1970**, 9, 219-235		502
580	Arg-Gly-Asp constrained within cyclic pentapeptides. Strong and selective inhibitors of cell adhesion to vitronectin and laminin fragment P1. *FEBS Letters*, **1991**, 291, 50-4	3.8	463
579	Cilengitide: the first anti-angiogenic small molecule drug candidate design, synthesis and clinical evaluation. *Anti-Cancer Agents in Medicinal Chemistry*, **2010**, 10, 753-68	2.2	453
578	Impact of order and disorder in RGD nanopatterns on cell adhesion. *Nano Letters*, **2009**, 9, 1111-6	11.5	447
577	Selective recognition of cyclic RGD peptides of NMR defined conformation by alpha IIb beta 3, alpha V beta 3, and alpha 5 beta 1 integrins.. *Journal of Biological Chemistry*, **1994**, 269, 20233-20238	5.4	415
576	Noninvasive imaging of alpha(v)beta3 integrin expression using 18F-labeled RGD-containing glycopeptide and positron emission tomography. *Cancer Research*, **2001**, 61, 1781-5	10.1	411
575	N-methylation of peptides: a new perspective in medicinal chemistry. *Accounts of Chemical Research*, **2008**, 41, 1331-42	24.3	403
574	Noninvasive visualization of the activated alphavbeta3 integrin in cancer patients by positron emission tomography and [18F]Galacto-RGD. *PLoS Medicine*, **2005**, 2, e70	11.6	398
573	Nachweis gehinderter Rotationen und Inversionen durch NMR-Spektroskopie. *Angewandte Chemie*, **1970**, 82, 237-253	3.6	392
572	Stereoisomeric Peptide Libraries and Peptidomimetics for Designing Selective Inhibitors of the □□ Integrin for a New Cancer Therapy. *Angewandte Chemie International Edition in English*, **1997**, 36, 1374-1389		368
571	Two-Dimensional NMR Spectroscopy: Background and Overview of the Experiments [New Analytical Methods (36)]. *Angewandte Chemie International Edition in English*, **1988**, 27, 490-536		363

570	Carbohydrate-based mimetics in drug design: sugar amino acids and carbohydrate scaffolds. *Chemical Reviews*, **2002**, 102, 491-514	68.1	360
569	Separation of cross-relaxation and J cross-peaks in 2D rotating-frame NMR spectroscopy. *Journal of the American Chemical Society*, **1987**, 109, 607-609	16.4	350
568	Perspectives on NMR in drug discovery: a technique comes of age. *Nature Reviews Drug Discovery*, **2008**, 7, 738-45	64.1	318
567	Selective recognition of cyclic RGD peptides of NMR defined conformation by alpha IIb beta 3, alpha V beta 3, and alpha 5 beta 1 integrins. *Journal of Biological Chemistry*, **1994**, 269, 20233-8	5.4	318
566	Peptide conformations. Part 31. The conformation of cyclosporin a in the crystal and in solution. *Helvetica Chimica Acta*, **1985**, 68, 682-704	2	311
565	A conserved spider silk domain acts as a molecular switch that controls fibre assembly. *Nature*, **2010**, 465, 239-42	50.4	309
564	Lateral spacing of integrin ligands influences cell spreading and focal adhesion assembly. *European Journal of Cell Biology*, **2006**, 85, 219-24	6.1	305
563	Positron emission tomography using [18F]Galacto-RGD identifies the level of integrin alpha(v)beta3 expression in man. *Clinical Cancer Research*, **2006**, 12, 3942-9	12.9	304
562	N-methylation of peptides and proteins: an important element for modulating biological functions. *Angewandte Chemie - International Edition*, **2013**, 52, 254-69	16.4	296
561	A Comprehensive Evaluation of the Activity and Selectivity Profile of Ligands for RGD-binding Integrins. *Scientific Reports*, **2017**, 7, 39805	4.9	279
560	[18F]Galacto-RGD: synthesis, radiolabeling, metabolic stability, and radiation dose estimates. *Bioconjugate Chemistry*, **2004**, 15, 61-9	6.3	276
559	Improving oral bioavailability of peptides by multiple N-methylation: somatostatin analogues. *Angewandte Chemie - International Edition*, **2008**, 47, 2595-9	16.4	268
558	Induction of cell polarization and migration by a gradient of nanoscale variations in adhesive ligand spacing. *Nano Letters*, **2008**, 8, 2063-9	11.5	265
557	Surface coating with cyclic RGD peptides stimulates osteoblast adhesion and proliferation as well as bone formation. *ChemBioChem*, **2000**, 1, 107-14	3.8	265
556	Conformation/activity studies of rationally designed potent anti-adhesive RGD peptides. *FEBS Journal*, **1992**, 210, 911-21		262
555	Ligands for mapping alphavbeta3-integrin expression in vivo. *Accounts of Chemical Research*, **2009**, 42, 969-80	24.3	261
554	Radiolabeled alpha(v)beta3 integrin antagonists: a new class of tracers for tumor targeting. *Journal of Nuclear Medicine*, **1999**, 40, 1061-71	8.9	256
553	Glycosylated RGD-containing peptides: tracer for tumor targeting and angiogenesis imaging with improved biokinetics. *Journal of Nuclear Medicine*, **2001**, 42, 326-36	8.9	250

552	Targeting RGD recognizing integrins: drug development, biomaterial research, tumor imaging and targeting. *Current Pharmaceutical Design*, **2006**, 12, 2723-47	3.3	246
551	Multimeric cyclic RGD peptides as potential tools for tumor targeting: solid-phase peptide synthesis and chemoselective oxime ligation. *Chemistry - A European Journal*, **2003**, 9, 2717-25	4.8	234
550	Exploring the Role of RGD-Recognizing Integrins in Cancer. *Cancers*, **2017**, 9,	6.6	218
549	Epitope mapping of monoclonal antibodies directed to PAI-1 using PAI-1/PAI-2 chimera and PAI-1-derived synthetic peptides. *Thrombosis Research*, **2000**, 98, 73-81	8.2	212
548	The N-terminal domain of p53 is natively unfolded. *Journal of Molecular Biology*, **2003**, 332, 1131-41	6.5	203
547	Photoswitched cell adhesion on surfaces with RGD peptides. *Journal of the American Chemical Society*, **2005**, 127, 16107-10	16.4	199
546	Conformational dynamics detected by nuclear magnetic resonance NOE values and J coupling constants. *Journal of the American Chemical Society*, **1988**, 110, 3393-3396	16.4	195
545	Asymmetric activation of the hsp90 dimer by its cochaperone aha1. *Molecular Cell*, **2010**, 37, 344-54	17.6	193
544	The Kinetic and Mechanistic Evaluation of NMR Spectra. New analytical methods (18). *Angewandte Chemie International Edition in English*, **1980**, 19, 411-428		183
543	Protein repellent properties of covalently attached PEG coatings on nanostructured SiO(2)-based interfaces. *Biomaterials*, **2007**, 28, 4739-47	15.6	181
542	Radiolabelled RGD peptides for imaging and therapy. *European Journal of Nuclear Medicine and Molecular Imaging*, **2012**, 39 Suppl 1, S126-38	8.8	180
541	WT p53, but not tumor-derived mutants, bind to Bcl2 via the DNA binding domain and induce mitochondrial permeabilization. *Journal of Biological Chemistry*, **2006**, 281, 8600-6	5.4	179
540	Nanomolar small molecule inhibitors for alphav(beta)6, alphav(beta)5, and alphav(beta)3 integrins. *Journal of Medicinal Chemistry*, **2002**, 45, 1045-51	8.3	174
539	Two-step methodology for high-yield routine radiohalogenation of peptides: (18)F-labeled RGD and octreotide analogs. *Journal of Nuclear Medicine*, **2004**, 45, 892-902	8.9	173
538	Synthesis and Conformational Analysis of Linear and Cyclic Peptides Containing Sugar Amino Acids. *Journal of the American Chemical Society*, **1996**, 118, 10156-10167	16.4	171
537	An unfolded CH1 domain controls the assembly and secretion of IgG antibodies. *Molecular Cell*, **2009**, 34, 569-79	17.6	170
536	Tumor Targeting via Integrin Ligands. *Frontiers in Oncology*, **2013**, 3, 222	5.3	164
535	The architecture of functional modules in the Hsp90 co-chaperone Sti1/Hop. *EMBO Journal*, **2012**, 31, 1506-17	13	161

534	The RGD motif in fibronectin is essential for development but dispensable for fibril assembly. *Journal of Cell Biology*, **2007**, 178, 167-78	7.3	158
533	Cell adhesion and proliferation on RGD-modified recombinant spider silk proteins. *Biomaterials*, **2012**, 33, 6650-9	15.6	157
532	Cell interactions with hierarchically structured nano-patterned adhesive surfaces. *Soft Matter*, **2009** , 5, 72-77	3.6	156
531	Cell adhesion strength is controlled by intermolecular spacing of adhesion receptors. *Biophysical Journal*, **2010**, 98, 543-51	2.9	155
530	Imaging of integrin alpha(v)beta(3) expression in patients with malignant glioma by [18F] Galacto-RGD positron emission tomography. *Neuro-Oncology*, **2009**, 11, 861-70	1	154
529	Intestinal permeability of cyclic peptides: common key backbone motifs identified. *Journal of the American Chemical Society*, **2012**, 134, 12125-33	16.4	153
528	PET of CXCR4 expression by a (68)Ga-labeled highly specific targeted contrast agent. *Journal of Nuclear Medicine*, **2011**, 52, 1803-10	8.9	153
527	Peptide conformations. Part 30. Assignment of the 1H-, 13C-, and 15N-NMR spectra of cyclosporin A in CDCl3 and C6D6 by a combination of homo- and heteronuclear two-dimensional techniques. *Helvetica Chimica Acta*, **1985**, 68, 661-681	2	153
526	The structures of integrins and integrin-ligand complexes: implications for drug design and signal transduction. *Angewandte Chemie - International Edition*, **2002**, 41, 3767-74	16.4	147
525	Disclosing the CXCR4 expression in lymphoproliferative diseases by targeted molecular imaging. *Theranostics*, **2015**, 5, 618-30	12.1	135
524	HETLOC, an Efficient Method for Determining Heteronuclear Long-Range Couplings with Heteronuclei in Natural Abundance. *Angewandte Chemie International Edition in English*, **1991**, 30, 1329-1331		131
523	Peptide conformations. 28. Relayed heteronuclear correlation spectroscopy and conformational analysis of cyclic hexapeptides containing the active sequence of somatostatin. *Journal of the American Chemical Society*, **1983**, 105, 6944-6952	16.4	130
522	Hsp90 is regulated by a switch point in the C-terminal domain. *EMBO Reports*, **2009**, 10, 1147-53	6.5	129
521	Scalar Coupling Constants—Their Analysis and Their Application for the Elucidation of Structures. *Angewandte Chemie International Edition in English*, **1995**, 34, 1671-1695		126
520	Peptide conformations. 46. Conformational analysis of a superpotent cytoprotective cyclic somatostatin analog. *Journal of the American Chemical Society*, **1988**, 110, 1033-1049	16.4	124
519	Hsp12 is an intrinsically unstructured stress protein that folds upon membrane association and modulates membrane function. *Molecular Cell*, **2010**, 39, 507-20	17.6	123
518	Stereoisomerism and Biological Activity of the Selective and Superactive αvβ3 Integrin Inhibitor cyclo(-RGDfV-) and Its Retro-Inverso Peptide. *Journal of the American Chemical Society*, **1997**, 119, 1328-1335	16.4	123
517	Cyclic RGD Peptides Containing β-Turn Mimetics. *Journal of the American Chemical Society*, **1996**, 118, 7881-7891	16.4	122

516	PET imaging of CXCR4 receptors in cancer by a new optimized ligand. *ChemMedChem*, **2011**, 6, 1789-91	3.7	120
515	Impact of local versus global ligand density on cellular adhesion. *Nano Letters*, **2011**, 11, 1469-76	11.5	120
514	The Redox Potential of Selenocystine in Unconstrained Cyclic Peptides. *Angewandte Chemie International Edition in English*, **1997**, 36, 883-885		120
513	Stretched poly(dimethylsiloxane) gels as NMR alignment media for apolar and weakly polar organic solvents: an ideal tool for measuring RDCs at low molecular concentrations. *Journal of the American Chemical Society*, **2004**, 126, 14690-1	16.4	118
512	Mimicking cellular environments by nanostructured soft interfaces. *Nano Letters*, **2007**, 7, 1413-8	11.5	117
511	PET/CT imaging of integrin □□ expression in human carotid atherosclerosis. *JACC: Cardiovascular Imaging*, **2014**, 7, 178-87	8.4	116
510	Design, synthesis, and NMR structure of linear and cyclic oligomers containing novel furanoid sugar amino acids. *Chemistry - A European Journal*, **2002**, 8, 4365-76	4.8	115
509	RGD-peptides for tissue engineering of articular cartilage. *Biomaterials*, **2002**, 23, 3455-63	15.6	115
508	Structure refinement using time-averaged J-coupling constant restraints. *Journal of Biomolecular NMR*, **1993**, 3, 55-66	3	114
507	Docking studies on alphavbeta3 integrin ligands: pharmacophore refinement and implications for drug design. *Journal of Medicinal Chemistry*, **2003**, 46, 4393-404	8.3	111
506	Carbohydrate Derivatives for Use in Drug Design: Cyclic alpha(v)-Selective RGD Peptides This work was supported by the Fonds der Chemischen Industrie, the Deutsche Forschungsgemeinschaft, and the Sanderstiftung. The authors thank M. Urzinger, B. Cordes, M. Kranawetter, M. Wolff, and A. Zeller for technical assistance. *Angewandte Chemie - International Edition*, **2000**, 39, 2761-2764	16.4	111
505	Measurement of fast proton exchange rates in isotopically labeled compounds. *Journal of the American Chemical Society*, **1993**, 115, 11620-11621	16.4	111
504	An easy and scalable method for the partial alignment of organic molecules for measuring residual dipolar couplings. *Angewandte Chemie - International Edition*, **2004**, 43, 1092-4	16.4	110
503	The effect of multiple N-methylation on intestinal permeability of cyclic hexapeptides. *Molecular Pharmaceutics*, **2011**, 8, 479-87	5.6	109
502	Peptide flexibility and calculations of an ensemble of molecules. *Journal of the American Chemical Society*, **1994**, 116, 1042-1049	16.4	109
501	pH-dependent dimerization and salt-dependent stabilization of the N-terminal domain of spider dragline silk--implications for fiber formation. *Angewandte Chemie - International Edition*, **2011**, 50, 310-3	16.4	107
500	Assessment of alphavbeta3 integrin expression after myocardial infarction by positron emission tomography. *Cardiovascular Research*, **2008**, 78, 395-403	9.9	107
499	3-Substituted indolizine-1-carbonitrile derivatives as phosphatase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 59-63	2.9	107

498	Selective RGD-Mediated Adhesion of Osteoblasts at Surfaces of Implants. *Angewandte Chemie - International Edition*, **1999**, 38, 560-562	16.4	107
497	PET Imaging of Integrin Expression. *Theranostics*, **2011**, 1, 48-57	12.1	107
496	N-methylated cyclic pentaalanine peptides as template structures. *Journal of the American Chemical Society*, **2006**, 128, 15164-72	16.4	106
495	A Sugar Amino Acid as a Novel Peptidomimetic. *Angewandte Chemie International Edition in English*, **1994**, 33, 687-689		104
494	Cooperativity in adhesion cluster formation during initial cell adhesion. *Biophysical Journal*, **2008**, 95, 5424-31	2.9	103
493	Applications of NMR in drug discovery. *Current Opinion in Chemical Biology*, **2001**, 5, 285-91	9.7	101
492	Optimized selective N-methylation of peptides on solid support. *Journal of Peptide Science*, **2006**, 12, 213-9	2.1	100
491	First (18)F-labeled tracer suitable for routine clinical imaging of sst receptor-expressing tumors using positron emission tomography. *Clinical Cancer Research*, **2004**, 10, 3593-606	12.9	99
490	Stretched gelatin gels as chiral alignment media for the discrimination of enantiomers by NMR spectroscopy. *Angewandte Chemie - International Edition*, **2005**, 44, 3145-7	16.4	99
489	Reinvestigation of the Conformation of Cyclosporin A in Chloroform. *Helvetica Chimica Acta*, **1990**, 73, 1818-1832	2	99
488	Peptide conformations. 42. Conformation of side chains in peptides using heteronuclear coupling constants obtained by two-dimensional NMR spectroscopy. *Journal of the American Chemical Society*, **1987**, 109, 6927-6933	16.4	99
487	Structural analysis of the interaction between Hsp90 and the tumor suppressor protein p53. *Nature Structural and Molecular Biology*, **2011**, 18, 1086-93	17.6	97
486	Synthesis of N-methylated cyclic peptides. *Nature Protocols*, **2012**, 7, 432-44	18.8	96
485	Titanium implant materials with improved biocompatibility through coating with phosphonate-anchored cyclic RGD peptides. *ChemBioChem*, **2005**, 6, 2034-40	3.8	92
484	Solid-phase synthesis of a nonpeptide RGD mimetic library: new selective alphavbeta3 integrin antagonists. *Journal of Medicinal Chemistry*, **2001**, 44, 1938-50	8.3	91
483	Conformation of cyclic peptides. Principle concepts and the design of selectivity and superactivity in bioactive sequences by 'spatial screening'. *Pure and Applied Chemistry*, **1996**, 68, 1201-1205	2.1	91
482	Improving oral bioavailability of cyclic peptides by N-methylation. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 2766-2773	3.4	90
481	The solution structure of VAT-N reveals a 'missing link' in the evolution of complex enzymes from a simple betaalphabetabeta element. *Current Biology*, **1999**, 9, 1158-68	6.3	90

480	Peptoids—A New Approach to the Development of Pharmaceuticals. *Angewandte Chemie International Edition in English*, **1993**, 32, 543-544		89
479	Beta VI turns in peptides and proteins: a model peptide mimicry. *Proteins: Structure, Function and Bioinformatics*, **1993**, 15, 235-51	4.2	89
478	Introducing lasso peptides as molecular scaffolds for drug design: engineering of an integrin antagonist. *Angewandte Chemie - International Edition*, **2011**, 50, 8714-7	16.4	87
477	Cyclic RGD peptides ameliorate ischemic acute renal failure in rats. *Kidney International*, **1994**, 46, 1050-8	9.9	87
476	Stereoselective Synthesis of a C?Glycosidic Analog of N-Glucoasparagine. *Angewandte Chemie International Edition in English*, **1997**, 36, 1191-1192		86
475	The urokinase plasminogen activator system as a novel target for tumour therapy. *Fibrinolysis and Proteolysis*, **2000**, 14, 114-132		86
474	Probing integrin selectivity: rational design of highly active and selective ligands for the alpha5beta1 and alphavbeta3 integrin receptor. *Angewandte Chemie - International Edition*, **2007**, 46, 3571-4	16.4	85
473	p53--a natural cancer killer: structural insights and therapeutic concepts. *Angewandte Chemie - International Edition*, **2006**, 45, 6440-60	16.4	85
472	First Poly(2-oxazoline)s with Pendant Amino Groups. *Macromolecular Chemistry and Physics*, **2006**, 207, 183-192	2.6	85
471	NMR investigation of the multidrug transporter EmrE, an integral membrane protein. *FEBS Journal*, **1998**, 254, 610-9		84
470	68Ga-NODAGA-RGD is a suitable substitute for (18)F-Galacto-RGD and can be produced with high specific activity in a cGMP/GRP compliant automated process. *Nuclear Medicine and Biology*, **2012**, 39, 777-84	2.1	82
469	Cellular unbinding forces of initial adhesion processes on nanopatterned surfaces probed with magnetic tweezers. *Nano Letters*, **2006**, 6, 398-402	11.5	82
468	Stretched poly(vinyl acetate) gels as NMR alignment media for the measurement of residual dipolar couplings in polar organic solvents. *Angewandte Chemie - International Edition*, **2005**, 44, 423-6	16.4	82
467	Convenient synthesis of N-methylamino acids compatible with Fmoc solid-phase peptide synthesis. *Journal of Organic Chemistry*, **2005**, 70, 5183-9	4.2	80
466	Cyclic homooligomers from sugar amino acids: synthesis, conformational analysis, and significance. *Journal of the American Chemical Society*, **2001**, 123, 8189-96	16.4	80
465	Thiocyclosporins: Preparation, Solution and Crystal Structure, and Immunosuppressive Activity. *Helvetica Chimica Acta*, **1991**, 74, 1953-1990	2	79
464	Novel backbone conformation of cyclosporin A: the complex with lithium chloride. *Journal of the American Chemical Society*, **1992**, 114, 2676-2686	16.4	79
463	Automated backbone assignment of labeled proteins using the threshold accepting algorithm. *Journal of Biomolecular NMR*, **1998**, 11, 31-43	3	78

462	Structure refinement of cyclosporin A in chloroform by using RDCs measured in a stretched PDMS-gel. *ChemBioChem*, **2005**, 6, 1672-8	3.8	78
461	Combined Approach of NMR and Molecular Dynamics within a biphasic Membrane Mimetic: Conformation and Orientation of the Bradykinin Antagonist Hoe 140. *Journal of the American Chemical Society*, **1994**, 116, 7532-7540	16.4	78
460	Molecular dynamics with dimethyl sulfoxide as a solvent. Conformation of a cyclic hexapeptide. *Journal of the American Chemical Society*, **1991**, 113, 9466-9470	16.4	77
459	Design, synthesis, and functionalization of dimeric peptides targeting chemokine receptor CXCR4. *Journal of Medicinal Chemistry*, **2011**, 54, 7648-62	8.3	76
458	The solution structure and dynamics of human neutrophil gelatinase-associated lipocalin. *Journal of Molecular Biology*, **1999**, 289, 139-57	6.5	76
457	Recognition of NMR proton spin systems of cyclosporin A via heteronuclear proton-carbon long-range couplings. *Journal of the American Chemical Society*, **1985**, 107, 1083-1084	16.4	76
456	□3- or □1-Integrin-Selective Peptidomimetics for Surface Coating. *Angewandte Chemie - International Edition*, **2016**, 55, 7048-67	16.4	76
455	Multiple N-methylation of MT-II backbone amide bonds leads to melanocortin receptor subtype hMC1R selectivity: pharmacological and conformational studies. *Journal of the American Chemical Society*, **2010**, 132, 8115-28	16.4	75
454	Design and chemical synthesis of integrin ligands. *Methods in Enzymology*, **2007**, 426, 463-503	1.7	74
453	Transmembrane signal transduction of the alpha(IIb)beta(3) integrin. *Protein Science*, **2002**, 11, 1800-12	6.3	73
452	Complete Sequence Determination and Localisation of One Imino and Three Sulfide Bridges of the Nonadecapeptide Ro 09□198 by Homonuclear 2D-NMR Spectroscopy. The DQF-RELAYED-NOESY-Experiment. *Helvetica Chimica Acta*, **1987**, 70, 726-741	2	72
451	Thermal isomerization about double bonds. *Tetrahedron*, **1974**, 30, 1861-1870	2.4	72
450	Novel Solid-Phase Synthesis of Azapeptides and Azapeptoides via Fmoc-Strategy and Its Application in the Synthesis of RGD-Mimetics. *Journal of Organic Chemistry*, **1999**, 64, 7388-7394	4.2	71
449	Functionalizing □3- or □1-selective integrin antagonists for surface coating: a method to discriminate integrin subtypes in vitro. *Angewandte Chemie - International Edition*, **2013**, 52, 1572-5	16.4	70
448	Conformational control of integrin-subtype selectivity in isoDGR peptide motifs: a biological switch. *Angewandte Chemie - International Edition*, **2010**, 49, 9278-81	16.4	70
447	Ligand binding analysis for human alpha5beta1 integrin: strategies for designing new alpha5beta1 integrin antagonists. *Journal of Medicinal Chemistry*, **2005**, 48, 4204-7	8.3	70
446	NMR chemical shift perturbation study of the N-terminal domain of Hsp90 upon binding of ADP, AMP-PNP, geldanamycin, and radicicol. *ChemBioChem*, **2003**, 4, 870-7	3.8	70
445	Nomenclature for Intramolecular Exchange Processes. *Angewandte Chemie International Edition in English*, **1971**, 10, 570-572		70

444	The Structure of the Polycyclic Nonadecapeptide Ro 09-0198. *Helvetica Chimica Acta*, **1988**, 71, 1924-1929	2	69
443	Nachweis innermolekularer beweglichkeit durch NMR-spektroskopie XV. *Tetrahedron*, **1970**, 26, 1805-1820	2.4	69
442	Orally Active Peptides: Is There a Magic Bullet?. *Angewandte Chemie - International Edition*, **2018**, 57, 14414-14438	16.4	67
441	Rational design of highly active and selective ligands for the alpha5beta1 integrin receptor. *ChemBioChem*, **2008**, 9, 1397-407	3.8	67
440	Multiple N-methylation by a designed approach enhances receptor selectivity. *Journal of Medicinal Chemistry*, **2007**, 50, 5878-81	8.3	67
439	NMR spectroscopy reveals the solution dimerization interface of p53 core domains bound to their consensus DNA. *Journal of Biological Chemistry*, **2001**, 276, 49020-7	5.4	67
438	Molecular targeting with peptides or peptide-polymer conjugates: just a question of size?. *Journal of Nuclear Medicine*, **2005**, 46, 1940-5	8.9	67
437	Hsp90 regulates the dynamics of its cochaperone Sti1 and the transfer of Hsp70 between modules. *Nature Communications*, **2015**, 6, 6655	17.4	66
436	Mimicking bone extracellular matrix: integrin-binding peptidomimetics enhance osteoblast-like cells adhesion, proliferation, and differentiation on titanium. *Colloids and Surfaces B: Biointerfaces*, **2015**, 128, 191-200	6	66
435	Structure and dynamics of synthetic O-glycosylated cyclopeptide in solution determined by NMR spectroscopy and MD calculations. *Journal of the American Chemical Society*, **1992**, 114, 4805-4818	16.4	66
434	Polymeric substrates with tunable elasticity and nanoscopically controlled biomolecule presentation. *Langmuir*, **2010**, 26, 15472-80	4	65
433	Cell adhesion and polarisation on molecularly defined spacing gradient surfaces of cyclic RGDfK peptide patches. *European Journal of Cell Biology*, **2008**, 87, 743-50	6.1	65
432	An efficient strategy for assignment of cross-peaks in 3D heteronuclear NOESY experiments. *Journal of Biomolecular NMR*, **1999**, 15, 177-80	3	65
431	BclxL changes conformation upon binding to wild-type but not mutant p53 DNA binding domain. *Journal of Biological Chemistry*, **2010**, 285, 3439-50	5.4	64
430	Telethonin deficiency is associated with maladaptation to biomechanical stress in the mammalian heart. *Circulation Research*, **2011**, 109, 758-69	15.7	64
429	Orientational properties of stretched polystyrene gels in organic solvents and the suppression of their residual 1H NMR signals. *Journal of the American Chemical Society*, **2005**, 127, 6459-65	16.4	64
428	Ovarian cancer cell proliferation and motility is induced by engagement of integrin alpha(v)beta3/Vitronectin interaction. *Biological Chemistry*, **2003**, 384, 1073-83	4.5	64
427	Mediating specific cell adhesion to low-adhesive diblock copolymers by instant modification with cyclic RGD peptides. *Biomaterials*, **2005**, 26, 2333-41	15.6	64

426	Solid-phase-assisted synthesis of targeting peptide-PEG-oligo(ethane amino)amides for receptor-mediated gene delivery. *Organic and Biomolecular Chemistry*, **2012**, 10, 3258-68	3.9	63
425	Determination of Connectivities via Small Proton-Carbon Couplings with a New Two-Dimensional NMR Technique. *Angewandte Chemie International Edition in English*, **1984**, 23, 444-445		62
424	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, VI. Konformation und gehinderte Rotation in Disulfiden und Diseleniden. *Chemische Berichte*, **1968**, 101, 3350-3357		62
423	Biselectivity of isoDGR peptides for fibronectin binding integrin subtypes 51 and 8: conformational control through flanking amino acids. *Journal of Medicinal Chemistry*, **2013**, 56, 1509-19	8.3	61
422	Synthesis of novel 1,4,7,10-tetraazacyclodecane-1,4,7,10-tetraacetic acid (DOTA) derivatives for chemoselective attachment to unprotected polyfunctionalized compounds. *Chemistry - A European Journal*, **2007**, 13, 6082-90	4.8	61
421	Intrinsic inhibition of the Hsp90 ATPase activity. *Journal of Biological Chemistry*, **2006**, 281, 11301-11	5.4	61
420	NMR-based screening technologies. *Drug Discovery Today*, **2003**, 8, 803-10	8.8	61
419	N-Methylierung von Peptiden und Proteinen: ein wichtiges Element f die Regulation biologischer Funktionen. *Angewandte Chemie*, **2013**, 125, 268-283	3.6	60
418	Synthesis of C-Glycopeptides via Free Radical Addition of Glycosyl Bromides to Dehydroalanine Derivatives. *Angewandte Chemie International Edition in English*, **1992**, 31, 902-904		60
417	Nachweis innermolekularer beweglichkeit durch NMR-spektroskopie XVI. *Tetrahedron*, **1969**, 25, 5127-5145		60
416	Mesomere Kationen. IV13C-NMR-Spektren von Uronium-, Thiouronium- und Guanidiniumsalzen, sowie einigen Guanidinen. *Magnetic Resonance in Chemistry*, **1975**, 7, 128-136		59
415	Mesomere Kationen: III13C-Fourier-Transform-NMR-Spektren von Harnstoffen, Thioharnstoffen und Guanidinen. *Magnetic Resonance in Chemistry*, **1974**, 6, 305-312		59
414	Integrin modulators: a patent review. *Expert Opinion on Therapeutic Patents*, **2013**, 23, 1273-95	6.8	58
413	Urokinase-type plasminogen activator (uPA) and its receptor (uPAR): development of antagonists of uPA/uPAR interaction and their effects in vitro and in vivo. *Current Pharmaceutical Design*, **2003**, 9, 1529-43	3.3	58
412	Sugar amino acid containing somatostatin analogues that induce apoptosis in both drug-sensitive and multidrug-resistant tumor cells. *Organic Letters*, **2001**, 3, 3723-5	6.2	58
411	Stereoselective Synthesis of C-Glycoside with a Glycosyl Dianion. *Angewandte Chemie International Edition in English*, **1993**, 32, 1091-1093		57
410	A backbone-cyclic, receptor 5-selective somatostatin analogue: synthesis, bioactivity, and nuclear magnetic resonance conformational analysis. *Journal of Medicinal Chemistry*, **1998**, 41, 919-29	8.3	56
409	Conformational analysis of furanoid epsilon-sugar amino acid containing cyclic peptides by NMR spectroscopy, molecular dynamics simulation, and X-ray crystallography: evidence for a novel turn structure. *Journal of the American Chemical Society*, **2003**, 125, 10822-9	16.4	55

408	Selective adhesion of endothelial cells to artificial membranes with a synthetic RGD-lipopeptide. *Chemistry - A European Journal*, **2001**, 7, 1095-101	4.8	55
407	Systematic mutational analysis of the receptor-binding region of the human urokinase-type plasminogen activator. *FEBS Journal*, **1996**, 237, 743-51		55
406	Conformational Analysis of a Cyclic RGD Peptide Containing a .psi.[CH2-NH] Bond: A Positional Shift in Backbone Structure Caused by a Single Dipeptide Mimetic. *Journal of the American Chemical Society*, **1994**, 116, 7735-7743	16.4	55
405	Conformational Prerequisites for the in vitro Inhibition of Cholate Uptake in Hepatocytes by Cyclic Analogues of Antamanide and Somatostatin. *Angewandte Chemie International Edition in English*, **1986**, 25, 997-999		55
404	Rational improvement of the affinity and selectivity of integrin binding of grafted lasso peptides. *Journal of Medicinal Chemistry*, **2014**, 57, 5829-34	8.3	54
403	The solution structure of the N-terminal domain of riboflavin synthase. *Journal of Molecular Biology* , **2001**, 309, 949-60	6.5	54
402	C-Glycoside Analogues of N4-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-L-asparagine: Synthesis and conformational analysis of a cyclic C-glycopeptide. *Helvetica Chimica Acta*, **1996**, 79, 1519-1532	2	54
401	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, XVII. Lineare Hammett-Korrelation von Aktivierungsbarrieren der Rotation um CC-Dopple-und-Einfachbindungen und CN-Einfachbindungen in Ketenaminalen. *Chemische Berichte*, **1970**, 103, 973-985		54
400	Interface Immobilization Chemistry of RGD-based Peptides Regulates Integrin Mediated Cell Adhesion. *Advanced Functional Materials*, **2014**, 24, 943-956	15.6	53
399	Conformational preference and potential templates of N-methylated cyclic pentaalanine peptides. *Chemistry - A European Journal*, **2008**, 14, 1508-17	4.8	53
398	Diffusion NMR spectroscopy: folding and aggregation of domains in p53. *ChemBioChem*, **2005**, 6, 1550-65	3.8	53
397	Reversible backbone protection enables combinatorial solid-phase ring-closing metathesis reaction (RCM) in peptides. *Organic Letters*, **2002**, 4, 59-62	6.2	53
396	Pharmacophore refinement of gpIIb/IIIa antagonists based on comparative studies of antiadhesive cyclic and acyclic RGD peptides. *Journal of Computer-Aided Molecular Design*, **1994**, 8, 709-30	4.2	53
395	Improvement of drug-like properties of peptides: the somatostatin paradigm. *Expert Opinion on Drug Discovery*, **2010**, 5, 655-71	6.2	52
394	On the dependence of molecular conformation on the type of solvent environment: a molecular dynamics study of cyclosporin A. *Biopolymers*, **1990**, 29, 1669-87	2.2	52
393	Behavior of primary human osteoblasts on trimmed and sandblasted Ti6Al4V surfaces functionalized with integrin αvβ3-selective cyclic RGD peptides. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 87-97	5.4	51
392	Introduction of functional groups into peptides via N-alkylation. *Organic Letters*, **2008**, 10, 2015-8	6.2	51
391	ADAM15 decreases integrin alphavbeta3/vitronectin-mediated ovarian cancer cell adhesion and motility in an RGD-dependent fashion. *International Journal of Biochemistry and Cell Biology*, **2005**, 37, 590-603	5.6	51

390	Human integrin alphavbeta5: homology modeling and ligand binding. *Journal of Medicinal Chemistry*, **2004**, 47, 4166-77	8.3	51
389	Does a Molecule have the Same Conformation in the Crystalline State and in Solution? Comparison of NMR Results for the Solid State and Solution with those of the X-ray Structural Determination. *Angewandte Chemie International Edition in English*, **1981**, 20, 1053-1055		51
388	Direct observation of recombination barriers of ion pairs by dynamic NMR spectroscopy. *Accounts of Chemical Research*, **1982**, 15, 2-8	24.3	51
387	Peptide conformations. 20. Conformational analysis of proline rings from proton spin-spin coupling constants and force-field calculations: application to three cyclic tripeptides. *Journal of the American Chemical Society*, **1983**, 105, 2237-2246	16.4	50
386	Stable Peptides Instead of Stapled Peptides: Highly Potent αvβ6-Selective Integrin Ligands. *Angewandte Chemie - International Edition*, **2016**, 55, 1535-9	16.4	49
385	Hydrogel micropillars with integrin selective peptidomimetic functionalized nanopatterned tops: a new tool for the measurement of cell traction forces transmitted through αvβ3- or α5β1-integrins. *Advanced Materials*, **2013**, 25, 5869-74	24	49
384	Two novel probes reveal tubular and vascular Arg-Gly-Asp (RGD) binding sites in the ischemic rat kidney. *Kidney International*, **1997**, 52, 93-102	9.9	49
383	A computational model of transmembrane integrin clustering. *Structure*, **2004**, 12, 1109-16	5.2	49
382	Integrin alpha(v)beta(3)/vitronectin interaction affects expression of the urokinase system in human ovarian cancer cells. *Journal of Biological Chemistry*, **2001**, 276, 26340-8	5.4	49
381	Conformation of cyclic analogs of substance P: NMR and molecular dynamics in dimethyl sulfoxide. *Journal of the American Chemical Society*, **1992**, 114, 4818-4827	16.4	49
380	An unexpected cis peptide bond in the minor conformation of a cyclic hexapeptide containing only secondary amide bonds. *Journal of the American Chemical Society*, **1990**, 112, 5908-5916	16.4	49
379	A molecular toolkit for the functionalization of titanium-based biomaterials that selectively control integrin-mediated cell adhesion. *Chemistry - A European Journal*, **2013**, 19, 9218-23	4.8	48
378	Can N-methylated amino acids serve as substitutes for prolines in conformational design of cyclic pentapeptides?. *Journal of Peptide Science*, **2009**, 15, 141-6	2.1	48
377	Spatial Screening for the Identification of the Bioactive Conformation of Integrin Ligands **2006**, 1-50		48
376	Cyclopropane-derived peptidomimetics. Design, synthesis, evaluation, and structure of novel HIV-1 protease inhibitors. *Journal of Medicinal Chemistry*, **1998**, 41, 1581-97	8.3	48
375	Design of superactive and selective integrin receptor antagonists containing the RGD sequence. *International Journal of Peptide Research and Therapeutics*, **1995**, 2, 155-160		48
374	The conformation of cyclo(-D-Pro-Ala4-) as a model for cyclic pentapeptides of the DL4 type. *Journal of the American Chemical Society*, **2006**, 128, 13806-14	16.4	46
373	Solid-phase synthesis of 1,3-azole-based peptides and peptidomimetics. *Organic Letters*, **2006**, 8, 2417-20	6.2	46

372	Adhesion of Arg-Gly-Asp (RGD) Peptide Vesicles onto an Integrin Surface: Visualization of the Segregation of RGD Ligands into the Adhesion Plaques by Fluorescence. *Langmuir*, **2003**, 19, 835-841	4	46
371	First Step Toward the Quantitative Identification of Peptide 310-Helix Conformation with NMR Spectroscopy:NMR and X-ray Diffraction Structural Analysis of a Fully-Developed 310-Helical Peptide Standard. *Journal of the American Chemical Society*, **1998**, 120, 4763-4770	16.4	46
370	Structures, Dynamics, and Biological Activities of 15 Cyclic Hexapeptide Analogs of the .alpha.-Amylase Inhibitor Tendamistat (HOE 467) in Solution. *Journal of the American Chemical Society*, **1995**, 117, 3347-3359	16.4	46
369	Solution structure of FK506 from nuclear magnetic resonance and molecular dynamics. *Journal of the American Chemical Society*, **1990**, 112, 9434-9436	16.4	46
368	Complexation and medium effects on the conformation of cyclosporin A studied by NMR spectroscopy and molecular dynamics calculations. *Biochemical Pharmacology*, **1990**, 40, 169-73	6	46
367	Correlation of the 13C-NMR Chemical Shifts of Carbonyl and Thiocarbonyl Groups. *Angewandte Chemie International Edition in English*, **1974**, 13, 90-91		46
366	Guiding plant virus particles to integrin-displaying cells. *Nanoscale*, **2012**, 4, 3698-705	7.7	45
365	Increasing selectivity of the anti-angiogenic drug cilengitide by N-methylation. *Angewandte Chemie - International Edition*, **2011**, 50, 9496-500	16.4	45
364	Urokinase induces proliferation of human ovarian cancer cells: characterization of structural elements required for growth factor function. *FEBS Letters*, **1998**, 438, 101-5	3.8	44
363	Design of selective peptidomimetic agonists for the human orphan receptor BRS-3. *Journal of Medicinal Chemistry*, **2003**, 46, 1918-30	8.3	44
362	Use of one-bond C.alpha.-H.alpha. coupling constants as restraints in MD simulations. *Journal of the American Chemical Society*, **1992**, 114, 8283-8284	16.4	44
361	Epitope-mapped monoclonal antibodies as tools for functional and morphological analyses of the human urokinase receptor in tumor tissue. *American Journal of Pathology*, **1997**, 150, 1231-44	5.8	44
360	Specific integrin labeling in living cells using functionalized nanocrystals. *Small*, **2007**, 3, 1560-5	11	43
359	Isothiocyanate-functionalized RGD peptides for tailoring cell-adhesive surface patterns. *Biomaterials*, **2008**, 29, 3004-13	15.6	43
358	Design and synthesis of potent and selective alpha(4)beta(7) integrin antagonists. *Journal of Medicinal Chemistry*, **2001**, 44, 2586-92	8.3	43
357	Conformational Analysis of the cis- and trans-Isomers of FK506 by NMR and Molecular Dynamics. *Helvetica Chimica Acta*, **1991**, 74, 1027-1047	2	43
356	Determination of heteronuclear long-range couplings to heteronuclei in natural abundance by two- and three-dimensional NMR spectroscopy. *Journal of Biomolecular NMR*, **1991**, 1, 403-20	3	43
355	Dynamic Forcing, a Method for Evaluating Activity and Selectivity Profiles of RGD (Arg-Gly-Asp) Peptides. *Angewandte Chemie International Edition in English*, **1992**, 31, 326-328		43

354	Peptide conformation. 17. cyclo-(L-Pro-L-Pro-D-Pro). Conformational analysis by 270- and 500-MHZ one- and two-dimensional proton NMR spectroscopy. *Journal of the American Chemical Society*, **1982**, 104, 6297-6304	16.4	43
353	Benefits of NOPO as chelator in gallium-68 peptides, exemplified by preclinical characterization of (68)Ga-NOPO-c(RGDfK). *Molecular Pharmaceutics*, **2014**, 11, 1687-95	5.6	42
352	A conformationally frozen peptoid boosts CXCR4 affinity and anti-HIV activity. *Angewandte Chemie - International Edition*, **2012**, 51, 8110-3	16.4	42
351	Cooperative binding of p53 to DNA: regulation by protein-protein interactions through a double salt bridge. *Angewandte Chemie - International Edition*, **2005**, 44, 5247-51	16.4	42
350	High-affinity urokinase-derived cyclic peptides inhibiting urokinase/urokinase receptor-interaction: effects on tumor growth and spread. *FEBS Letters*, **2002**, 528, 212-6	3.8	42
349	Peptide conformations. 15. One- and two-dimensional proton, carbon-13 and nitrogen-15 NMR studies of cyclo(Pro-Phe-Gly-Phe-Gly)n (n = 1, 2): selective complexation of lithium ions (n = 1) and potassium ions (n = 2). *Journal of the American Chemical Society*, **1982**, 104, 4534-4540	16.4	42
348	NMR-studien an chinonanilen. *Tetrahedron*, **1967**, 23, 3723-3732	2.4	42
347	Selective imaging of the angiogenic relevant integrins □1 and □□. *Angewandte Chemie - International Edition*, **2013**, 52, 11656-9	16.4	41
346	Induced tissue integration of bone implants by coating with bone selective RGD-peptides in vitro and in vivo studies. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 837-9	4.5	41
345	A stereoselective synthesis of 2-acetamido-2-deoxy-C-glucosides: Glycosyl dianions as key intermediates. *Tetrahedron Letters*, **1994**, 35, 6067-6070	2	41
344	Heteronuclear NMR of DNA with the heteronucleus in natural abundance: facilitated assignment and extraction of coupling constants. *Nucleic Acids Research*, **1992**, 20, 4747-51	20.1	41
343	Neuropeptide Y. Optimized solid-phase synthesis and conformational analysis in trifluoroethanol. *FEBS Journal*, **1992**, 206, 39-48		41
342	Selective Inhibition of Trypanosomal Triosephosphate Isomerase by a Thiopeptide. *Angewandte Chemie International Edition in English*, **1992**, 31, 328-330		41
341	Substrate engagement of integrins □1 and □□ is necessary, but not sufficient, for high directional persistence in migration on fibronectin. *Scientific Reports*, **2016**, 6, 23258	4.9	41
340	Integrin □1 and p53 convergent pathways in the control of anti-apoptotic proteins PEA-15 and survivin in high-grade glioma. *Cell Death and Differentiation*, **2016**, 23, 640-53	12.7	40
339	J-Spectroscopy in the presence of residual dipolar couplings: determination of one-bond coupling constants and scalable resolution. *Journal of Biomolecular NMR*, **2007**, 37, 231-43	3	40
338	New oxazole-based peptidomimetics: useful building blocks for the synthesis of orthogonally protected macrocyclic scaffolds. *Organic Letters*, **2003**, 5, 4567-70	6.2	40
337	Synthesis and NMR studies of cyclopeptides containing a sugar amino Acid. *Organic Letters*, **2002**, 4, 2501-4	6.2	40

336	Preparation and Transmetallation of a Triphenylstannyl β-D-Glucopyranoside: A highly stereoselective route to β-D-C-glycosides via glycosyl dianions. *Helvetica Chimica Acta*, **1994**, 77, 2060-2069	2	40
335	Conformational Analysis of Didemnins. A multidisciplinary approach by means of X-Ray, NMR, molecular-dynamics, and molecular-mechanics techniques. *Helvetica Chimica Acta*, **1989**, 72, 530-555	2	40
334	Structure of a stereoregular phosphorothioate DNA/RNA duplex. *Nature Structural Biology*, **1998**, 5, 271-6		39
333	Die Verbesserung der oralen Bioverfügbarkeit von Peptiden durch multiple N-Methylierung: Somatostatin-Analoga. *Angewandte Chemie*, **2008**, 120, 2633-2637	3.6	39
332	Synthesis, solution structure, and biological evaluation of urokinase type plasminogen activator (uPA)-derived receptor binding domain mimetics. *Journal of Medicinal Chemistry*, **2002**, 45, 4984-94	8.3	39
331	The state of the art of chemical biology. *ChemBioChem*, **2009**, 10, 16-29	3.8	38
330	Stimulation of cell adhesion at nanostructured teflon interfaces. *Advanced Materials*, **2010**, 22, 5499-5062	24	38
329	NMR studies reveal structural differences between the gallium and yttrium complexes of DOTA-D-Phe1-Tyr3-octreotide. *Journal of Medicinal Chemistry*, **2005**, 48, 1506-14	8.3	38
328	Improving implant materials by coating with nonpeptidic, highly specific integrin ligands. *Angewandte Chemie - International Edition*, **2004**, 43, 6649-52	16.4	38
327	Reproducability and transferability of topological properties; experimental charge density of the hexapeptide cyclo-(D,L-Pro)2-(L-Ala)4 monohydrate. *Acta Crystallographica Section B: Structural Science*, **2002**, 58, 721-7		38
326	Stereoselective Syntheses of Retro-Isomers of N-Glucoasparagine. *Angewandte Chemie International Edition in English*, **1995**, 34, 2026-2028		38
325	In Vivo PET Imaging of the Cancer Integrin αvβ3 Using Ga-Labeled Cyclic RGD Nonapeptides. *Journal of Nuclear Medicine*, **2017**, 58, 671-677	8.9	37
324	The cyclic cystine ladder of theta-defensins as a stable, bifunctional scaffold: A proof-of-concept study using the integrin-binding RGD motif. *ChemBioChem*, **2014**, 15, 451-9	3.8	37
323	Comparison of the conformation of active and nonactive backbone cyclic analogs of substance P as a tool to elucidate features of the bioactive conformation: NMR and molecular dynamics in DMSO and water. *Journal of Medicinal Chemistry*, **1994**, 37, 2145-52	8.3	37
322	Photolactonisierung: Ein neuer synthetischer Zugang zu Makroliden. *Helvetica Chimica Acta*, **1987**, 70, 771-861	2	37
321	Das ausmass sterischer hinderung in substituierten triarylmethanen und triarylmethyl-radikalen. *Tetrahedron*, **1969**, 25, 287-293	2.4	37
320	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, XXIII. Mechanismus der syn-anti-Isomerisierung in Iminen. Diastereotopie und Enantiotopie. *Chemische Berichte*, **1971**, 104, 2143-2157		37
319	9-fluorenylmethyl esters as carboxyl protecting group. *Tetrahedron Letters*, **1983**, 24, 281-282	2	36

318	Sterisch gehinderte rotation um □bindungen (1,2). *Tetrahedron Letters*, **1969**, 10, 1227-1230	2	36
317	Cyclic aza-peptide integrin ligand synthesis and biological activity. *Journal of Organic Chemistry*, **2012**, 77, 5271-8	4.2	35
316	Combination of an SRC kinase inhibitor with a novel pharmacological antagonist of the urokinase receptor diminishes in vitro colon cancer invasiveness. *Clinical Cancer Research*, **2004**, 10, 1545-55	12.9	35
315	Molecular Dynamics Study on Microheterogeneity and Preferential Solvation in Methanol/Chloroform Mixtures. *Journal of Physical Chemistry B*, **1998**, 102, 2027-2031	3.4	35
314	Enantiomeric cyclic peptides with different Caco-2 permeability suggest carrier-mediated transport. *Chemistry - A European Journal*, **2015**, 21, 8023-7	4.8	34
313	FOSL1 controls the assembly of endothelial cells into capillary tubes by direct repression of □ and □ integrin transcription. *Molecular and Cellular Biology*, **2013**, 33, 1198-209	4.8	34
312	The structure of a folding intermediate provides insight into differences in immunoglobulin amyloidogenicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 13373-8	11.5	34
311	Chemical conjugation of linear and cyclic RGD moieties to a recombinant elastin-mimetic polypeptide--a versatile approach towards bioactive protein hydrogels. *Macromolecular Bioscience*, **2008**, 8, 577-88	5.5	34
310	Nachweis innermolekularer beweglichkeit durch nmr-spektrometrie-III. *Tetrahedron*, **1968**, 24, 1857-1867	2.4	34
309	Influence of the internal disulfide bridge on the folding pathway of the CL antibody domain. *Journal of Molecular Biology*, **2007**, 365, 1232-44	6.5	33
308	Peptidkonformationen, II: 1H-NMR-Untersuchungen zur Konformation von cyclo(-Phe3Gly2-). *Chemische Berichte*, **1978**, 111, 1045-1057		33
307	NMR-Spektroskopische Untersuchungen zur Kinetik und Thermodynamik reversibler Dissoziationsreaktionen, V. Das Gleichgewicht zwischen Kontaktionenpaaren des Tropyliumisothiocyanats und kovalentem 7-Isothiocyanatocycloheptatrien □H- und 13C-NMR-Messungen. *Chemische Berichte*, **1978**, 111, 2947-2959		33
306	Pharmacophoric modifications lead to superpotent □□ integrin ligands with suppressed □□ activity. *Journal of Medicinal Chemistry*, **2014**, 57, 3410-7	8.3	32
305	A cyclen-based tetraphosphinate chelator for the preparation of radiolabeled tetrameric bioconjugates. *Chemistry - A European Journal*, **2013**, 19, 7748-57	4.8	32
304	Improved Accuracy of NMR Structures by a Modified NOESY-HSQC Experiment. *Journal of Magnetic Resonance Series B*, **1995**, 106, 86-88		32
303	Totalsynthese des Pseudoguaianolids (+)-Confertin. *Liebigs Annalen Der Chemie*, **1988**, 1988, 283-315		32
302	Ist die Konformation eines Molekü□s im Kristall und in Lö□ung gleich? NMR-Befunde an Festkö□per und Lö□ung im Vergleich zur Rö□tgen-Strukturbestimmung. *Angewandte Chemie*, **1981**, 93, 1085-1086	3.6	32
301	Selective binding and lateral clustering of □□ and □□ integrins: Unraveling the spatial requirements for cell spreading and focal adhesion assembly. *Cell Adhesion and Migration*, **2016**, 10, 505-515	3.2	31

300	Segregation versus colocalization: orthogonally functionalized binary micropatterned substrates regulate the molecular distribution in focal adhesions. *Advanced Materials*, **2015**, 27, 3737-47	24	31
299	Breaking the dogma of the metal-coordinating carboxylate group in integrin ligands: introducing hydroxamic acids to the MIDAS to tune potency and selectivity. *Angewandte Chemie - International Edition*, **2009**, 48, 4436-40	16.4	31
298	Solution structure, dimerization, and dynamics of a lipophilic alpha/3(10)-helical, C alpha-methylated peptide. Implications for folding of membrane proteins. *Journal of the American Chemical Society*, **2001**, 123, 6678-86	16.4	31
297	Structure of cobra cardiotoxin CTX I as derived from nuclear magnetic resonance spectroscopy and distance geometry calculations. *Journal of Molecular Biology*, **1994**, 240, 445-58	6.5	31
296	2,6-Substituted homotropilidenes. Influence of substituents on valence topomerization. *Journal of the American Chemical Society*, **1976**, 98, 5014-5016	16.4	31
295	Structure of Rapamycin: An NMR and Molecular-Dynamics Investigation. *Helvetica Chimica Acta*, **1993**, 76, 117-130	2	30
294	Solution structure of a synthetic N-glycosylated cyclic hexapeptide determined by NMR spectroscopy and MD calculations. *Journal of the American Chemical Society*, **1991**, 113, 7550-7563	16.4	30
293	NMR spectroscopic studies on kinetics and thermodynamics of reversible dissociation reactions. 6. Ionization of tropylium azide in liquid sulfur dioxide and selective migration of the azide ligand in less polar solvents. *Journal of the American Chemical Society*, **1979**, 101, 1943-1950	16.4	30
292	Cyclic hexapeptides derived from the human thymopoietin III. *International Journal of Peptide and Protein Research*, **1992**, 39, 36-40		29
291	Coupling constants and hydrogen bonds as experimental restraints in a distance geometry refinement protocol. *International Journal of Peptide and Protein Research*, **1994**, 44, 325-31		29
290	A stereoselective synthesis of a C-glycosylated peptoid building block. *Tetrahedron Letters*, **1998**, 39, 253-254	2	29
289	Determination of the configuration and conformation of .alpha.-, .beta.-, and isotripiperideine carbon-13 nuclear magnetic resonance spectroscopy. *Journal of Organic Chemistry*, **1977**, 42, 66-72	4.2	29
288	Synthesis of Binary Nanopatterns on Hydrogels for Initiating Cellular Responses. *Chemistry of Materials*, **2016**, 28, 1806-1815	9.6	28
287	Therapeutic potential of RGD peptides in acute renal injury. *Kidney International*, **1997**, 51, 1487-92	9.9	28
286	Cyclic Heptapeptides Axinastatin 2, 3, and 4: Conformational analysis and evaluation of the biological potential. *Helvetica Chimica Acta*, **1997**, 80, 1338-1354	2	28
285	Strukturen von Integrinen und ihren Ligandkomplexen Implikationen f das Medikamenten-Design und die Signaltransduktion. *Angewandte Chemie*, **2002**, 114, 3919-3927	3.6	28
284	Determination of Backbone Conformation of Isotopically Enriched Proteins Based on Coupling Constants. *Journal of Magnetic Resonance Series B*, **1994**, 104, 172-179		28
283	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, XXIV. Hammett-Beziehung und sterische Einfl se auf die Rotationen um partielle CN-Doppelbindungen in aromatischen Guanidiniumsalzen. *Chemische Berichte*, **1971**, 104, 2158-2169		28

282	Complementary, Selective PET Imaging of Integrin Subtypes □5□1 and □v□3 Using 68Ga-Aquibeprin and 68Ga-Avebetrin. *Journal of Nuclear Medicine*, **2016**, 57, 460-6	8.9	27
281	Unusual thionation of a cyclic hexapeptide. Conformational changes and dynamics. *International Journal of Peptide and Protein Research*, **1992**, 40, 25-40		27
280	Rationales Design von hoch aktiven und selektiven Liganden f□□5□1- und □v□3-Integrine. *Angewandte Chemie*, **2007**, 119, 3641-3644	3.6	27
279	Zur Konformation geschü□zter Aminosü□ren, III. NMR- und IR-Untersuchungen von Boc-L-□-Aminosü□ren. *Chemische Berichte*, **1975**, 108, 2176-2188		27
278	Nachweis innermolekularer beweglichkeit durch NMR-spektroskopie□XXV. *Tetrahedron*, **1971**, 27, 1687-1697	2.7	27
277	Minimal synthetic cells to study integrin-mediated adhesion. *Angewandte Chemie - International Edition*, **2015**, 54, 12472-8	16.4	26
276	Tuning Mesenchymal Stem Cell Response onto Titanium-Niobium-Hafnium Alloy by Recombinant Fibronectin Fragments. *ACS Applied Materials & Interfaces*, **2016**, 8, 2517-25	9.5	26
275	cis-Peptide Bonds: A Key for Intestinal Permeability of Peptides? . *Chemistry - A European Journal*, **2015**, 21, 15148-52	4.8	26
274	Calculating three-dimensional molecular structure from atom-atom distance information: cyclosporin A. *International Journal of Peptide and Protein Research*, **1989**, 33, 281-8		26
273	Lipoconjugates: structure-activity studies for pheromone analogues of Ustilago maydis with varied lipophilicity. *International Journal of Peptide and Protein Research*, **1996**, 48, 377-90		26
272	Synthesis and stereochemical assignment of DNA spore photoproduct analogues. *Chemistry - A European Journal*, **2006**, 12, 6081-94	4.8	26
271	Solution structure of Escherichia coli Par10: The prototypic member of the Parvulin family of peptidyl-prolyl cis/trans isomerases. *Protein Science*, **2004**, 13, 2378-87	6.3	26
270	Nonpeptidic □Integrin Antagonist Libraries: On-Bead Screening and Mass Spectrometric Identification without Tagging. *Angewandte Chemie - International Edition*, **2001**, 40, 165-169	16.4	26
269	Selektive RGD-vermittelte Adhü□ion von Osteoblasten an Implantat-Oberflü□hen. *Angewandte Chemie*, **1999**, 111, 587-590	3.6	26
268	S-Glycosylated Cyclic Peptides. *Angewandte Chemie International Edition in English*, **1993**, 32, 269-271		26
267	Bioconjugation of Supramolecular Metallacages to Integrin Ligands for Targeted Delivery of Cisplatin. *Bioconjugate Chemistry*, **2018**, 29, 3856-3865	6.3	26
266	Synthesis and conformational analysis of efrapeptins. *Chemistry - A European Journal*, **2012**, 18, 478-87	4.8	25
265	Towards the cell-instructive bactericidal substrate: exploring the combination of nanotopographical features and integrin selective synthetic ligands. *Scientific Reports*, **2017**, 7, 16363	4.9	25

264	Konformative Kontrolle über Integrin-Subtyp-Selektivitäten in isoDGR-Peptidmotiven: ein biologischer Schalter. *Angewandte Chemie*, **2010**, 122, 9465-9468	3.6	25
263	A structural model of EmrE, a multi-drug transporter from Escherichia coli. *Biophysical Journal*, **2004**, 86, 3335-48	2.9	25
262	Conformation of Antamanide. *Liebigs Annalen Der Chemie*, **1989**, 1989, 913-928		25
261	tert-Butoxycarbonyl-L-phenylalanin. Kristallstruktur und Konformationsumwandlungen in Lösung. *Chemische Berichte*, **1980**, 113, 520-530		25
260	Conformation of protected amino acids. V. Application of lanthanide-shift reagents for conformational studies of tert-butoxycarbonyl alpha-amino acid esters: equilibrium changes and kinetics of the isomerization. *Journal of the American Chemical Society*, **1976**, 98, 5969-73	16.4	25
259	Fibronectin promotes directional persistence in fibroblast migration through interactions with both its cell-binding and heparin-binding domains. *Scientific Reports*, **2017**, 7, 3711	4.9	24
258	Overcoming the Lack of Oral Availability of Cyclic Hexapeptides: Design of a Selective and Orally Available Ligand for the Integrin αvβ3. *Angewandte Chemie - International Edition*, **2017**, 56, 16405-16409	16.4	24
257	Surface functionalization of amorphous silicon and silicon suboxides for biological applications. *Thin Solid Films*, **2003**, 427, 201-207	2.2	24
256	A cyclo peptide activates signaling events and promotes growth and the production of the bone matrix. *Peptides*, **2003**, 24, 1349-57	3.8	24
255	Transcriptional regulation by antitermination. Interaction of RNA with NusB protein and NusB/NusE protein complex of Escherichia coli. *Journal of Molecular Biology*, **2002**, 316, 875-85	6.5	24
254	1H-15N NMR dynamic study of an isolated α-helical peptide (1-36)- bacteriorhodopsin reveals the equilibrium helix-coil transitions. *Journal of Biomolecular NMR*, **1999**, 14, 345-356	3	24
253	Enhanced sensitivity of rapidly exchanging amide protons by improved phase cycling and the constructive use of radiation damping. *Journal of Biomolecular NMR*, **1994**, 4, 735-40	3	24
252	Substituenteneinfluß auf sigmatrope Reaktionen, II. 13C-DNMR-Untersuchungen zur Kinetik der Valenz-isomerisierung von 3,4-Homotropiliden und seines 3-Methylderivates. *Chemische Berichte*, **1975**, 108, 3151-3158		24
251	Synthesis and biological evaluation of phosphino dipeptide isostere inhibitor of human beta-secretase (BACE1). *Bioorganic and Medicinal Chemistry*, **2007**, 15, 4136-43	3.4	23
250	NMR-based screening: a powerful tool in fragment-based drug discovery. *Molecular BioSystems*, **2006**, 2, 318		23
249	Peptoide Schlüsselverbindungen für einen neuen Weg zur Entwicklung von pharmazeutischen Wirkstoffen. *Angewandte Chemie*, **1993**, 105, 572-573	3.6	23
248	Solution Structure of [Me-L-Leu7]Didemnin B Determined by NMR Spectroscopy and Refined by MD Calculation. *Helvetica Chimica Acta*, **1990**, 73, 25-47	2	23
247	Peptide conformation. 12. Conformation of cyclo-(L-Pro3) in solution. *Journal of Organic Chemistry*, **1981**, 46, 3892-3895	4.2	23

246	Selective Targeting of Integrin □□ by a Highly Active Cyclic Peptide. *Journal of Medicinal Chemistry*, **2019**, 62, 2024-2037	8.3	23
245	From a Helix to a Small Cycle: Metadynamics-Inspired □□ Integrin Selective Ligands. *Angewandte Chemie - International Edition*, **2018**, 57, 14645-14649	16.4	22
244	The influence of different metal-chelate conjugates of pentixafor on the CXCR4 affinity. *EJNMMI Research*, **2016**, 6, 36	3.6	22
243	Solution structure of the antitermination protein NusB of Escherichia coli: a novel all-helical fold for an RNA-binding protein. *EMBO Journal*, **1998**, 17, 4092-100	13	22
242	Phosphorus NMR spectroscopy as a versatile tool for compound library screening. *Angewandte Chemie - International Edition*, **2008**, 47, 2608-11	16.4	22
241	Expression of the GM2-activator protein in the methylotrophic yeast Pichia pastoris, purification, isotopic labeling, and biophysical characterization. *Protein Expression and Purification*, **2004**, 34, 147-57	2	22
240	Synthesis and NMR investigation of cyclic pentapeptide analogues of thymopentin. *Tetrahedron Letters*, **1985**, 26, 177-180	2	22
239	Caveolin-1-negative head and neck squamous cell carcinoma primary tumors display increased epithelial to mesenchymal transition and prometastatic properties. *Oncotarget*, **2015**, 6, 41884-901	3.3	22
238	Small Cause, Great Impact: Modification of the Guanidine Group in the RGD Motif Controls Integrin Subtype Selectivity. *Angewandte Chemie - International Edition*, **2016**, 55, 1540-3	16.4	21
237	The glycophorin A transmembrane sequence within integrin □□ creates a non-signaling integrin with low basal affinity that is strongly adhesive under force. *Journal of Molecular Biology*, **2013**, 425, 2988-3006	6.5	21
236	Conformational analysis of a cyclic thymopoietin-analogue by 1H n.m.r. spectroscopy and restrained molecular dynamics simulations. *International Journal of Peptide and Protein Research*, **1987**, 30, 404-14		21
235	S- and C-glycopeptide derivatives of an LH-RH agonist. *International Journal of Peptide and Protein Research*, **1996**, 48, 59-70		21
234	Structure□Activity Relationships by NMR: A New Procedure for Drug Discovery by a Combinatorial□Rational Approach. *Angewandte Chemie International Edition in English*, **1997**, 36, 829-831		21
233	Michael-type additions in the synthesis of □O- and -S-2-deoxyglycosides. *Tetrahedron Letters*, **1996**, 37, 3453-3456	2	21
232	Synthesis and Solvent Effects on the Conformation of Hymenistatin 1. *Helvetica Chimica Acta*, **1993**, 76, 1649-1666	2	21
231	Facile Synthesis of a □(1-3)-Linked gal-galactal Disaccharide and Its Use in N-Iodosuccinimide-Activated O-Glycopeptide Synthesis. *Angewandte Chemie International Edition in English*, **1990**, 29, 425-427		21
230	The Elucidation of the Constitution of Glycopeptides by the NMR Spectroscopic COLOC Technique. *Angewandte Chemie International Edition in English*, **1986**, 25, 342-344		21
229	Zweidimensionale NMR-Spektroskopie. *Nachrichten Aus Der Chemie*, **1982**, 30, 488-497		21

228	13C-NMR-Spektroskopie von Norbornanderivaten, I: Gerüstabhängige Verschiebungseffekte und ihre Nichtadditivität als Indikator für intramolekulare Wechselwirkungen. *Chemische Berichte*, **1978**, 111, 3200-3214		21
227	Conformational equilibrium in the backbone of cyclic tripeptides. *Journal of the American Chemical Society*, **1978**, 100, 2548-2550	16.4	21
226	Nachweis innermolekularer beweglichkeit durch NMR-spektroskopie XXVIII. *Tetrahedron*, **1974**, 30, 1137-1144	2.4	21
225	Variation of Specific Activities of 68Ga-Aquibeprin and 68Ga-Avebetrin Enables Selective PET Imaging of Different Expression Levels of Integrins α5β1 and αvβ3. *Journal of Nuclear Medicine*, **2016**, 57, 1618-1624	8.9	21
224	Single cell tracking assay reveals an opposite effect of selective small non-peptidic α5β1 or αvβ3/β5 integrin antagonists in U87MG glioma cells. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 2978-87	4	20
223	Structure-activity relationship studies optimizing the antiproliferative activity of novel cyclic somatostatin analogues containing a restrained cyclic beta-amino acid. *Journal of Medicinal Chemistry*, **2005**, 48, 2916-26	8.3	20
222	Binding of small mono- and oligomeric integrin ligands to membrane-embedded integrins monitored by surface plasmon-enhanced fluorescence spectroscopy. *Analytical Chemistry*, **2006**, 78, 4524-33	7.8	20
221	Inter-domain motions of the N-domain of the KdpFABC complex, a P-type ATPase, are not driven by ATP-induced conformational changes. *Journal of Molecular Biology*, **2004**, 342, 1547-58	6.5	20
220	Synthese von cyclischen Pentapeptidanalogen des Thymopoietins. Cyclisierungen mit Carbodiimid und 4-(Dimethylamino)pyridin. *Liebigs Annalen Der Chemie*, **1986**, 1986, 869-892		20
219	NOESY-TOCSY, an Advantageous 2D NMR Technique for the Analysis of Peptide Sequences. *Angewandte Chemie International Edition in English*, **1988**, 27, 564-566		20
218	Inversion am doppelt gebundenen stickstoffatom in phenylguanidinen (1). *Tetrahedron Letters*, **1968**, 9, 2041-2045	2	20
217	RGD-Binding Integrins Revisited: How Recently Discovered Functions and Novel Synthetic Ligands (Re-)Shape an Ever-Evolving Field. *Cancers*, **2021**, 13,	6.6	20
216	Kohlenhydratderivate im Wirkstoffdesign am Beispiel von cyclischen αv-selektiven RGD-Peptiden. *Angewandte Chemie*, **2000**, 112, 2868-2871	3.6	19
215	Calculation of Molecular Dynamics for Peptides in Dimethyl Sulfoxide: Elimination of Vacuum Effects. *Angewandte Chemie International Edition in English*, **1992**, 31, 210-212		19
214	Peptide Conformation from Coupling Constants: Scalar Couplings as Restraints in MD Simulations. *Helvetica Chimica Acta*, **1992**, 75, 2583-2592	2	19
213	Synthese des Benzylethers von Virginiamycin S1. *Liebigs Annalen Der Chemie*, **1986**, 1986, 1-20		19
212	2-(2-pyridyl-)ethyl esters A new carboxyl protecting group in peptide synthesis. *Tetrahedron Letters*, **1984**, 25, 3971-3974	2	19
211	Synthese der cyclischen Pentapeptide aus L-Phenylalanin und Glycin. *Chemische Berichte*, **1978**, 111, 1029-1044		19

210	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, XXX. Simultane Beobachtung dreier reversibler Austauschprozesse im Diphenylborins□re-diethanolaminester □eine 1H- und 13C-DNMR-spektroskopische Untersuchung. *Chemische Berichte*, **1978**, 111, 2605-2614		19
209	Rational Design of Cyclic Peptide Inhibitors of U2AF Homology Motif (UHM) Domains To Modulate Pre-mRNA Splicing. *Journal of Medicinal Chemistry*, **2016**, 59, 10190-10197	8.3	18
208	In vivo biokinetic and metabolic characterization of the □a-labelled 5□-selective peptidomimetic FR366. *European Journal of Nuclear Medicine and Molecular Imaging*, **2016**, 43, 953-963	8.8	18
207	The regulatory domain stabilizes the p53 tetramer by intersubunit contacts with the DNA binding domain. *Journal of Molecular Biology*, **2013**, 425, 144-55	6.5	18
206	Synthesis of Unnatural Lipohilic N-(9H-Fluoren-9-ylmethoxy)carbonyl-Substituted □Amino Acids and Their Incorporation into Cyclic RGD-Peptides: A structure-activity study. *Helvetica Chimica Acta*, **1997**, 80, 1280-1300	2	18
205	C-glycosides: A stereoselective synthesis of □and □C-galactosides with glycosyl dianions. *Tetrahedron Letters*, **1998**, 39, 7699-7702	2	18
204	Synthesis and structure-activity relationship of mannose-based peptidomimetics selectively blocking integrin alpha4beta7 binding to mucosal addressin cell adhesion molecule-1. *Journal of Medicinal Chemistry*, **2003**, 46, 5752-62	8.3	18
203	Evidence for hetero-association of transmembrane helices of integrins. *FEBS Letters*, **2004**, 557, 253-8	3.8	18
202	Bibliotheken niedermolekularer □□-Integrinantagonisten: On-Bead-Screening und massenspektrometrische Identifizierung ohne Codierung. *Angewandte Chemie*, **2001**, 113, 169-173	3.6	18
201	Conformation of cyclo[pro-phe-gly-phe-gly]1). *Tetrahedron Letters*, **1976**, 17, 2801-2804	2	18
200	Peptidkonformationen, VI. Festlegung von intramolekularen Wasserstoffbr□ken in cyclo(-Phe-Gly-Xxx-Val-Ala-) durch 1H-NMR-Spektroskopie. *Chemische Berichte*, **1979**, 112, 3538-3551		18
199	Receptor-bound conformation of cilengitide better represented by its solution-state structure than the solid-state structure. *Chemistry - A European Journal*, **2014**, 20, 14201-6	4.8	17
198	Design of Cyclic Peptides **2009**, 133-176		17
197	The holo-form of the nucleotide binding domain of the KdpFABC complex from Escherichia coli reveals a new binding mode. *Journal of Biological Chemistry*, **2006**, 281, 9641-9	5.4	17
196	Efficient enantioselective synthesis of condensed and aromatic-ring-substituted tyrosine derivatives. *Journal of Organic Chemistry*, **2006**, 71, 5625-30	4.2	17
195	Combinatorial and rational strategies to develop nonpeptidic alpha4beta7-integrin antagonists from cyclic peptides. *Angewandte Chemie - International Edition*, **2002**, 41, 3007-11	16.4	17
194	31P-CP-MAS NMR studies on TPP+ bound to the ion-coupled multidrug transport protein EmrE. *FEBS Letters*, **2000**, 480, 127-31	3.8	17
193	Conformation of DifferentS-Deoxo-Xaa3-amaninamide Analogues in DMSO Solution as Determined by NMR Spectroscopy. Strong CD Effects Induced by □, □ Conformational Change. *Journal of the American Chemical Society*, **1996**, 118, 4380-4387	16.4	17

192	3D Heteronuclear NMR techniques for carbon-13 in natural abundance. *Journal of the American Chemical Society*, **1990**, 112, 8599-8600	16.4	17
191	Peptidkonformationen, 39. NMR-Studien zur Konformation von Cyclopentapeptidanalogen des Thymopoietins. *Liebigs Annalen Der Chemie*, **1986**, 1986, 893-913		17
190	Nonhydrogen tautomerism and other chemical rate processes in cyclohexadienones. *Journal of the American Chemical Society*, **1968**, 90, 6566-6567	16.4	17
189	Die katalysierte homologisierung des phenanthrens mit diazomethan zum dibenzonorcaradien. *Tetrahedron Letters*, **1965**, 6, 423-428	2	17
188	Zur Kenntnis des chinoiden Zustandes IX. *Tetrahedron*, **1968**, 24, 5133-5144	2.4	17
187	Development of Novel Melanocortin Receptor Agonists Based on the Cyclic Peptide Framework of Sunflower Trypsin Inhibitor-1. *Journal of Medicinal Chemistry*, **2018**, 61, 3674-3684	8.3	16
186	Enhancing Oral Bioavailability of Cyclic RGD Hexa-peptides by the Lipophilic Prodrug Charge Masking Approach: Redirection of Peptide Intestinal Permeability from a Paracellular to Transcellular Pathway. *Molecular Pharmaceutics*, **2018**, 15, 3468-3477	5.6	16
185	Investigation of early cell-surface interactions of human mesenchymal stem cells on nanopatterned type titanium-niobium alloy surfaces. *Interface Focus*, **2014**, 4, 20130046	3.9	16
184	Funktionalisierung 3- oder 51-selektiver Integrinantagonisten f die Oberfl henbeschichtung: ein Hilfsmittel zur Unterscheidung von Integrinsubtypen in vitro. *Angewandte Chemie*, **2013**, 125, 1612-1616	3.6	16
183	N-Methylated sst2 Selective Somatostatin Cyclic Peptide Analogue as a Potent Candidate for Treating Neurogenic Inflammation. *ACS Medicinal Chemistry Letters*, **2011**, 2, 509-14	4.3	16
182	Prolonged stability by cyclization: Macrocyclic phosphino dipeptide isostere inhibitors of beta-secretase (BACE1). *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 4427-31	2.9	16
181	C-glycosides: A stereoselective synthesis of C-galactosamines with a glycosyl dianion. *Tetrahedron Letters*, **1998**, 39, 255-256	2	16
180	NMR studies on the substrate-binding domains of the thermosome: structural plasticity in the protrusion region. *Journal of Molecular Biology*, **2004**, 336, 717-29	6.5	16
179	NMR spectroscopy in drug design. *Pure and Applied Chemistry*, **2001**, 73, 1429-1436	2.1	16
178	Assignment of All Proton, Carbon, and Nitrogen NMR Signals of Antamanide in Chloroform Solution. *Liebigs Annalen Der Chemie*, **1989**, 1989, 903-912		16
177	Short and Efficient Synthesis of Statine and Isostatine Derivatives. *Synthesis*, **1990**, 1990, 457-458	2.9	16
176	The Structure of the Lichen Macrolide (+)-Aspicilin. *Angewandte Chemie International Edition in English*, **1985**, 24, 987-988		16
175	Monitoring and optimization of deprotection reactions of peptides by direct sampling with fast atom bombardment mass spectrometry. *Journal of Organic Chemistry*, **1986**, 51, 483-486	4.2	16

174	Peptidkonformationen, XIII. cyclo-Enkephaline Synthese und Konformationsstudien. *Liebigs Annalen Der Chemie*, **1981**, 1981, 2028-2044		16
173	Organoids to Study Intestinal Nutrient Transport, Drug Uptake and Metabolism - Update to the Human Model and Expansion of Applications. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 577656	5.8	16
172	Differential Modulation of Platelet Adhesion and Spreading by Adhesive Ligand Density. *Nano Letters*, **2019**, 19, 1418-1427	11.5	16
171	Therapeutic Radiopharmaceuticals Targeting Integrin . *ACS Omega*, **2018**, 3, 2428-2436	3.9	15
170	Combining Adhesive Nanostructured Surfaces and Costimulatory Signals to Increase T Cell Activation. *Nano Letters*, **2018**, 18, 5899-5904	11.5	15
169	Polymer-free immobilization of a cyclic RGD peptide on a nitinol stent promotes integrin-dependent endothelial coverage of strut surfaces. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 637-45	3.5	15
168	The impact of amino acid side chain mutations in conformational design of peptides and proteins. *Chemistry - A European Journal*, **2010**, 16, 5385-90	4.8	15
167	A three-state mechanism of integrin activation and signal transduction for integrin alpha(v)beta(3). *ChemBioChem*, **2002**, 3, 470-3	3.8	15
166	Synthese von 2-Desoxy-O-glycopeptiden mit dem N-Iodsuccinimid-(NIS-) Verfahren. *Liebigs Annalen Der Chemie*, **1991**, 1991, 727-744		15
165	Inhibition of triosephosphate isomerase from Trypanosoma brucei with cyclic hexapeptides. *FEBS Journal*, **1992**, 207, 441-7		15
164	Peptide conformations, 23 NMR investigation of cyclic hexapeptides containing the active sequence of somatostatin. *Tetrahedron Letters*, **1982**, 23, 4685-4688	2	15
163	Peptide conformation, 24 homo- and heteronuclear 2D NMR spectroscopy of cyclic pentapeptides containing the active sequenceof somatostatin. *Tetrahedron Letters*, **1982**, 23, 4689-4692	2	15
162	NMR-spektroskopische untersuchungen zur kinetik und thermodynamik reversibler dissoziationsreaktionen. *Tetrahedron*, **1976**, 32, 1575-1579	2.4	15
161	13C-NMR-Spektroskopie von Norbornanderivaten, II: Einfluhomokonjugativer Wechselwirkungen auf die Carbonylverschiebung in Norbornanonsystemen. *Chemische Berichte*, **1978**, 111, 3215-3221		15
160	Integrin Subtypes and Nanoscale Ligand Presentation Influence Drug Sensitivity in Cancer Cells. *Nano Letters*, **2020**, 20, 1183-1191	11.5	15
159	Recruitment of integrin to integrin-induced clusters enables focal adhesion maturation and cell spreading. *Journal of Cell Science*, **2020**, 133,	5.3	15
158	Synthesis and solution structure of an S-glycosylated cyclic hexapeptide. Evidence for conformational change induced by glycosylation. *International Journal of Peptide and Protein Research*, **1994**, 43, 248-57		14
157	Competition of deprotonation and tin-lithium exchange in the generation of a glycosyl dianion. *Tetrahedron Letters*, **1997**, 38, 1903-1906	2	14

156	Development of a peptidomimetic ligand for efficient isolation and purification of factor VIII via affinity chromatography. *Journal of Medicinal Chemistry*, **2007**, 50, 4329-39	8.3	14
155	Designed Beta-Turn Mimic Based on the Allylic-Strain Concept: Evaluation of Structural and Biological Features by Incorporation into a Cyclic RGD Peptide (Cyclo(-L-arginylglycyl-L-□aspartyl-)). *Helvetica Chimica Acta*, **2002**, 85, 4442-4452	2	14
154	□Head-to-Tail□Cyclization of Hexapeptides Using Different Coupling Reagents. *Liebigs Annalen Der Chemie*, **1993**, 1993, 497-501		14
153	Synthetic immunogens. The effect of the conformational space on biological and immunological responses to dimeric hormone constructs. *FEBS Journal*, **1993**, 212, 325-33		14
152	syn-anti-Isomerism at the Carbon-Sulfur Double Bond in Isothiouronium Salts. *Angewandte Chemie International Edition in English*, **1970**, 9, 641-642		14
151	Nachweis innermolekularer beweglichkeit durch NMR-spektroskopie, XIX magnetische nicht□quivalenz als beweis f□ die inversion am stickstoff in iminen. *Tetrahedron Letters*, **1970**, 11, 1423-1426	2	14
150	Zur konformation gesch□zter aminos□ren□ *Tetrahedron*, **1974**, 30, 781-786	2.4	14
149	□ber die katalysierte homologisierung von naphthalin und phenanthren mit diazomethan. *Tetrahedron Letters*, **1964**, 5, 1525-1530	2	14
148	□3- oder □5□1-Integrin-selektive Peptidmimetika f□ die Oberfl□chenbeschichtung. *Angewandte Chemie*, **2016**, 128, 7162-7183	3.6	14
147	Fluorescence imaging of invasive head and neck carcinoma cells with integrin □6-targeting RGD-peptides: an approach to a fluorescence-assisted intraoperative cytological assessment of bony resection margins. *British Journal of Oral and Maxillofacial Surgery*, **2018**, 56, 972-978	1.4	14
146	N-Methylation of isoDGR Peptides: Discovery of a Selective □5□1-Integrin Ligand as a Potent Tumor Imaging Agent. *Journal of Medicinal Chemistry*, **2018**, 61, 2490-2499	8.3	13
145	Determination of cross relaxation rates by 3D NOE-NOE spectroscopy. *Journal of Biomolecular NMR* , **1991**, 1, 83-92	3	13
144	Chain Elongation of Thiodipeptides with Proteases. *Angewandte Chemie International Edition in English*, **1992**, 31, 1229-1230		13
143	Fast Heteronuclear 3D NMR Spectroscopy. *Angewandte Chemie International Edition in English*, **1990**, 29, 546-548		13
142	Homologisierung von aromaten mit diazomethan und kupfersalzen. *Tetrahedron Letters*, **1963**, 4, 1501-1503	2	13
141	Non-invasive assessment of inter-and intrapatient variability of integrin expression in metastasized prostate cancer by PET. *Oncotarget*, **2016**, 7, 28151-9	3.3	13
140	Cytoplasmic salt bridge formation in integrin □3 stabilizes its inactive state affecting integrin-mediated cell biological effects. *Cellular Signalling*, **2014**, 26, 2493-503	4.9	12
139	Orthogonally protected artificial amino acid as tripod ligand for automated peptide synthesis and labeling with [(99m)Tc(OH(2))(3)(CO)(3)](+). *Bioconjugate Chemistry*, **2013**, 24, 26-35	6.3	12

138	The HSP90 binding mode of a radicicol-like E-oxime determined by docking, binding free energy estimations, and NMR 15N chemical shifts. *Biophysical Chemistry*, **2009**, 143, 111-23	3.5	12
137	2-Fluoropyrimidine as an efficient reagent in solid-phase synthesis of N-aryl- and N-alkyl-N-pyrimidin-2-ylamines. *Tetrahedron Letters*, **2000**, 41, 1725-1728	2	12
136	Novel synthesis of a Phe-Gly E-alkene dipeptide isostere. *Tetrahedron Letters*, **1996**, 37, 5359-5362	2	12
135	Alanine containing analogues of cyclo(-d-pro-phe-thr-lys(z)-trp-phe-)- conformationally controlled structure-activity-relationships. *Tetrahedron*, **1988**, 44, 745-759	2.4	12
134	NMR-Spektroskopische Untersuchungen zur Kinetik und Thermodynamik reversibler Dissoziationsreaktionen, IV: Tris(4-methoxyphenyl)methyl-isothiocyanat □Direkte Beobachtung und Linienformanalyse der Ionisierung und der Ionenpaar-Rekombination. *Chemische Berichte*, **1978**, 111, 1659-1669		12
133	NMR-Spektroskopische Untersuchungen zur Kinetik und Thermodynamik reversibler Dissoziationsreaktionen, VII. Direkte Beobachtung der Ionisation und Ionenrekombination von Tritylchlorid in SO2. *Chemische Berichte*, **1979**, 112, 3715-3722		12
132	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, XXVI. L□ungsmittel- und s□urekatalysierte Z,E-Topomerisierung eines Hydrazons. *Chemische Berichte*, **1973**, 106, 1023-1032		12
131	Homologisierung von 5-ringaromaten mit diazomethan. *Tetrahedron Letters*, **1963**, 4, 1047-1049	2	12
130	Growth promoting in vitro effect of synthetic cyclic RGD-peptides on human osteoblast-like cells attached to cancellous bone. *International Journal of Molecular Medicine*, **2006**, 17, 1017-21	4.4	12
129	Integrin-Targeted Hybrid Fluorescence Molecular Tomography/X-ray Computed Tomography for Imaging Tumor Progression and Early Response in Non-Small Cell Lung Cancer. *Neoplasia*, **2017**, 19, 8-16	6.4	11
128	Systematic Backbone Conformational Constraints on a Cyclic Melanotropin Ligand Leads to Highly Selective Ligands for Multiple Melanocortin Receptors. *Journal of Medicinal Chemistry*, **2015**, 58, 6359-67	8.3	11
127	Bioactive compounds immobilized on Ti and TiNbHf: AFM-based investigations of biofunctionalization efficiency and cell adhesion. *Colloids and Surfaces B: Biointerfaces*, **2015**, 136, 704-11	6	11
126	Tailoring of integrin ligands: probing the charge capability of the metal ion-dependent adhesion site. *Journal of Medicinal Chemistry*, **2012**, 55, 871-82	8.3	11
125	Erh□ung der □3-Selektivit□ des Angiogenese hemmenden Wirkstoffs Cilengitid durch N-Methylierung. *Angewandte Chemie*, **2011**, 123, 9668-9672	3.6	11
124	Bruch mit dem Dogma metallkoordinierender Carbons□ren in Integrinliganden: □derung von Selektivit□ und Aktivit□ durch Hydroxams□ren als MIDAS-Binder. *Angewandte Chemie*, **2009**, 121, 4501-4506	3.6	11
123	A Spin System Labeled and Highly Resolved ed-H(CCO)NH-TOCSY Experiment for the Facilitated Assignment of Proton Side Chains in Partially Deuterated Samples. *Journal of Biomolecular NMR*, **1998**, 11, 191-8	3	11
122	The glucose transporter of Escherichia coli. Assignment of the 1H, 13C and 15N resonances and identification of the secondary structure of the soluble IIB domain. *FEBS Journal*, **1994**, 219, 945-52		11
121	Solution structure of phalloidin obtained by NMR spectroscopy in [D6]DMSO and molecular dynamics calculation in vacuo and in water. *Liebigs Annalen Der Chemie*, **1991**, 1991, 179-184		11

120	Synthesis of O-(Glyco)peptides by the N-Iodosuccinimide Procedure. *Angewandte Chemie International Edition in English*, **1987**, 26, 888-890		11
119	Peptidkonformationen, 26 Ein- und zweidimensionale H-NMR-Untersuchungen zur Konformation der beiden cyclischen Pentapeptide cyclo-[Pro-Phe-Gly-Ser-Gly] und cyclo-[Pro-Ser-Gly-Phe-Gly]. *Liebigs Annalen Der Chemie*, **1983**, 1983, 316-329		11
118	Simplification of Spectra for the Determination of Coupling Constants from Homonuclear Correlated 2D NMR Spectra. *Angewandte Chemie International Edition in English*, **1985**, 24, 690-692		11
117	Assignments of the carbon resonances in tert-butylated 2-naphthols by the two-dimensional carbon-relayed hydrogen,carbon-COSY technique. *Journal of Organic Chemistry*, **1986**, 51, 596-601	4.2	11
116	Die Struktur des 2,6-Diphenylhomotropilidens. *Chemische Berichte*, **1980**, 113, 90-103		11
115	cyclo-Leu5-Enkephalin. *Angewandte Chemie International Edition in English*, **1981**, 20, 124-125		11
114	Substituenteneinflu auf sigmatrope Reaktionen, I. 3-Methylhomotropiliden. Synthese und Lage des Gleichgewichtes. *Chemische Berichte*, **1975**, 108, 2708-2721		11
113	5-Methoxysemibullvalen. *Chemische Berichte*, **1979**, 112, 2894-2902		11
112	Nachweis innermolekularer beweglichkeit durch nmr-spektroskopie XI (1) Isomerisierungen an der CN- und CS-doppelbindung in guanidinium- und thiuroniumsalzen (2). *Tetrahedron Letters*, **1969**, 10, 427-430	2	11
111	Stabile Peptide statt estapelte Peptide hochaffine -selektive Integrinliganden. *Angewandte Chemie*, **2016**, 128, 1559-1563	3.6	11
110	Multiparametric PET and MRI of myocardial damage after myocardial infarction: correlation of integrin expression and myocardial blood flow. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 48, 1070-1080	8.8	11
109	Oral aktive Peptide: Gibt es ein Patentrezept?. *Angewandte Chemie*, **2018**, 130, 14614-14640	3.6	10
108	Selektive Bildgebung der angiogenetisch relevanten Integrine und . *Angewandte Chemie*, **2013**, 125, 11870-11873	3.6	10
107	The transmembrane structure of integrin alphaIIbbeta3: significance for signal transduction. *Angewandte Chemie - International Edition*, **2009**, 48, 6590-3	16.4	10
106	Benzylprotected aromatic phosphonic acids for anchoring peptides on titanium. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 271-3	2.9	10
105	Mechanism of the Unfolding of Transmembrane Helical Segment (1 6)-Bacteriorhodopsin Studied by Molecular Dynamics Simulations. *Journal of Physical Chemistry B*, **1999**, 103, 7036-7043	3.4	10
104	Synthesis of the 4-Pyridine Analog of Kostanecki's Triketone. Determination of Constitution and Stereochemistry by 2D-NMR Spectroscopy and X-ray Structural Analysis. *Liebigs Annalen Der Chemie* , **1991**, 1991, 1337-1341		10
103	Peptide conformation. 18. Analysis of the conformational equilibrium of cyclo[Pro-NBGly2] by means of two-dimensional NMR spectroscopy. *Journal of the American Chemical Society*, **1982**, 104, 4486-4487	16.4	10

102	Notiz zur Rotationsisomerie bei p-Diphenochinonen. *Chemische Berichte*, **1969**, 102, 2147-2149		10
101	Dynamic NMR Measurements of Boc-amino Esters with Application of Lanthanoid Shift Reagents. *Angewandte Chemie International Edition in English*, **1973**, 12, 1011-1012		10
100	In vivo imaging of early stages of rheumatoid arthritis by 51-integrin-targeted positron emission tomography. *EJNMMI Research*, **2019**, 9, 87	3.6	10
99	Highly Ordered Gold Nanopatterned Indium Tin Oxide Electrodes for Simultaneous Optical and Electrochemical Probing Cell Interactions. *Analytical Chemistry*, **2017**, 89, 10054-10062	7.8	9
98	Structure and dynamic properties of the single disulfide-deficient alpha-amylase inhibitor [C45A/C73A]tendamistat: an NMR study. *Proteins: Structure, Function and Bioinformatics*, **1998**, 33, 285-94	4.2	9
97	Efficient factor VIII affinity purification using a small synthetic ligand. *Journal of Thrombosis and Haemostasis*, **2008**, 6, 470-7	15.4	9
96	Radio-Analytical Determination of the Coating Efficiency of Cyclic RGD Peptides. *Helvetica Chimica Acta*, **2006**, 89, 833-840	2	9
95	Heteronuclear two-and three-dimensional nmr spectroscopy of 13C in natural abundance by multiplicity selection and editing: Application to peptides. *Biopolymers*, **1991**, 31, 621-629	2.2	9
94	Determination of the HNH Coupling Constant in Large Isotopically Enriched Proteins. *Angewandte Chemie International Edition in English*, **1992**, 31, 1609-1611		9
93	Structural Investigations of 13-O-Demethyl-FK506 and Its Isomers Generated by in vitro Metabolism of FK506 Using Human-Liver Microsomes. *Helvetica Chimica Acta*, **1993**, 76, 2288-2302	2	9
92	Peptidkonformationen, 22. Die Konformation von cyclo-[Pro2-(NB)Gly] im Kristall und in Lsung durch Rntgenstrukturanalyse und ein- und zweidimensionale NMR-Spektroskopie. *Liebigs Annalen Der Chemie*, **1983**, 1983, 231-247		9
91	Peptidkonformationen, 27. cyclo-[L-Pro-(Bzl)Gly-D-Pro]. Synthese und Konformation im Kristall und in Lsung. *Chemische Berichte*, **1983**, 116, 3164-3181		9
90	Peptidkonformationen, 36 Konformationsuntersuchungen an vier cyclischen Heptapeptiden durch NMR-Spektroskopie. *Liebigs Annalen Der Chemie*, **1985**, 1985, 1145-1167		9
89	Solid-State 13C-NMR Spectra of Cyclotriprolines. *Angewandte Chemie International Edition in English*, **1982**, 21, 689-689		9
88	Empirische abschtzung von inversionsbarrieren, I inversionsbarrieren der pyramidalen inversion in N-halogen-substituierten stickstoffverbindungen. *Tetrahedron Letters*, **1970**, 11, 4289-4292	2	9
87	Empirische abschtzung von inversionsbarrieren, III der einfluss benachbarter stickstoffatome auf die inversionsbarriere und die natur des beobachteten prozesses in N-methyl- und N-chlor-piperidin. *Tetrahedron Letters*, **1970**, 11, 4297-4300	2	9
86	Nachweis innermolekularer beweglichkeit durch NMR-spektroskopie, XX Konformation und rotationsbarrieren in N,N?-diarylthioharnstoffen. *Tetrahedron Letters*, **1970**, 11, 1595-1598	2	9
85	Die kupfersalzkatalysierte homologisierung von pyren mit diazomethan. *Tetrahedron Letters*, **1965**, 6, 2673-2675	2	9

84	Kupfer-i-salz-katalysierte diazomethanreaktion mit hexamethyldewarbenzol. *Tetrahedron Letters*, **1968**, 9, 3037-3040	2	9
83	Simultaneous Targeting of RGD-Integrins and Dual Murine Double Minute Proteins in Glioblastoma Multiforme. *Journal of Medicinal Chemistry*, **2018**, 61, 4791-4809	8.3	9
82	Focal adhesion stabilization by enhanced integrin-cRGD binding affinity. *BioNanoMaterials*, **2017**, 18,		8
81	Control of stem cell response and bone growth on biomaterials by fully non-peptidic integrin selective ligands. *Biomaterials Science*, **2019**, 7, 1281-1285	7.4	8
80	Peptide conformations--49(1): synthesis and structure-activity relationships of side chain modified peptides of cyclo(-D-Pro-Phe-Thr-Lys-Trp-Phe.). *International Journal of Peptide and Protein Research*, **1988**, 32, 183-93		8
79	Verbesserte Implantatmaterialien durch die Beschichtung mit hochspezifischen, nichtpeptidischen Integrinliganden. *Angewandte Chemie*, **2004**, 116, 6818-6821	3.6	8
78	TMS Triflate-Promoted O-Glycosylation of Amino Acids and Peptides by L-Acosaminal and L-Ristosaminal. *Liebigs Annalen Der Chemie*, **1994**, 1994, 811-816		8
77	A simple way for sequential assignment in isotopically enriched proteins using a H(N)CACO correlation. *Journal of Biomolecular NMR*, **1993**, 3, 233	3	8
76	Synthese von Virginiamycin S1 und Virginiamycin S4. *Liebigs Annalen Der Chemie*, **1986**, 1986, 21-31		8
75	Ionization Barrier of Trityl Chloride in Sulfur Dioxide. *Angewandte Chemie International Edition in English*, **1977**, 16, 256-257		8
74	Nachweis innermolekularer Beweglichkeit durch NMR-Spektroskopie, XXIX. 13C-DNMR-Studie zur molekularen Beweglichkeit von Tripiperidein. *Chemische Berichte*, **1977**, 110, 2306-2315		8
73	Mesomere Kationen, V. Donoreigenschaften von Sauerstoff und Schwefel DNMR-Studien an aromatischen Uronium- und Thiouroniumsalzen zur Frage der planaren Inversion am Sauerstoff und Schwefel. *Chemische Berichte*, **1979**, 112, 1153-1167		8
72	Empirische abschtzung von inversionsbarrieren, II Stabilisierung der stickstoff - pyramide durch substitution mit sauerstoff. *Tetrahedron Letters*, **1970**, 11, 4293-4296	2	8
71	Direct Observation of the Dissociation Equilibrium of Tropylium Salts. *Angewandte Chemie International Edition in English*, **1973**, 12, 773-774		8
70	Kleine Ursache, groe Wirkung: Modifikation der Guanidiniumgruppe im RGD-Motiv reguliert die Integrinsubtypselektivitt. *Angewandte Chemie*, **2016**, 128, 1564-1568	3.6	7
69	Synthesis of a cyclic retro analogue of somatostatin suitable for photoaffinity labelling. *International Journal of Peptide and Protein Research*, **1987**, 29, 621-8		7
68	Structure-activity relationship of the ring portion in backbone-cyclic C-terminal hexapeptide analogs of substance P. NMR and molecular dynamics. *International Journal of Peptide and Protein Research*, **1996**, 48, 569-79		7
67	Secondary structure of the IIB domain of the Escherichia coli mannose transporter, a new fold in the class of alpha/beta twisted open-sheet structures. *FEBS Letters*, **1997**, 404, 45-50	3.8	7

66	Studies on the NusB protein of Escherichia coli--expression and determination of secondary-structure elements by multinuclear NMR spectroscopy. *FEBS Journal*, **1997**, 248, 338-46		7
65	Conformational Analysis of Drugs by Nuclear Magnetic Resonance Spectroscopy. *Methods and Principles in Medicinal Chemistry*, **2007**, 207-254	0.4	7
64	New backbone cyclic substance P analogs. *International Journal of Peptide Research and Therapeutics*, **1995**, 2, 121-124		7
63	Synthesis of axinastatins 2 5. *Tetrahedron Letters*, **1996**, 37, 5355-5358	2	7
62	Peptidkonformationen, 50. Synthese und Konformationsanalyse von cyclischen Alanin-Analogen des Thymopoietins durch NMR-Spektroskopie und Molecular-Dynamics-Rechnungen im Vakuum und in Lsung. *Liebigs Annalen Der Chemie*, **1989**, 1989, 269-294		7
61	Synthese des Streptogramin-B-analogen Cyclodepsipeptids cyclo[-(Boc)Ser-D-Abu-Pro-(Me)Phe-Pip-Phg-O-]. *Liebigs Annalen Der Chemie*, **1983**, 1983, 1541-1550		7
60	Anwendung der hochaufgelsten Festkper-NMR-Spektroskopie zur Bestimmung der Ring-Ketten-Tautomerie. *Chemische Berichte*, **1984**, 117, 702-709		7
59	Z,E-Isomerie aromatischer diazoketone. *Tetrahedron Letters*, **1973**, 14, 393-396	2	7
58	Ungewnlicher Verlauf einer Acetalhydrolyse bei einer Homotropiliden-Synthese. *Chemische Berichte*, **1974**, 107, 3053-3069		7
57	Direkter nackweis der rotation um die zentrale C-C-doppelbindung im 3,3?,5,5?-tetra-tert.-butyl-diphenochinon-(2,4?) durch NMR-spektrometrie. *Tetrahedron Letters*, **1966**, 7, 5257-5262	2	7
56	Magnetische nichtquivalenz und konformationen in a thyl-, benzyl- und isopropyl-substituierten 3H-Indolen. *Tetrahedron*, **1968**, 24, 6825-6831	2.4	7
55	Surface Co-presentation of BMP-2 and integrin selective ligands at the nanoscale favors integrin-mediated adhesion. *Biomaterials*, **2021**, 267, 120484	15.6	7
54	The integrin ligand c(RGDf(NMe)Nal) reduces neointimal hyperplasia in a polymer-free drug-eluting stent system. *ChemMedChem*, **2014**, 9, 1413-8	3.7	6
53	Influence of serine in position i on conformation and dynamics of reverse turns. *International Journal of Peptide and Protein Research*, **1995**, 45, 430-40		6
52	Synthesis of Dolastatin 15 mimetic peptoids. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 385-8	2.9	6
51	Modified Triple Resonance NMR Experiments with Optimized Sensitivity for Rapidly Exchanging Protons. *Angewandte Chemie International Edition in English*, **1995**, 34, 469-471		6
50	Peptidkonformationen, 40. Cyclische Hexapeptidanaloge des Thymopoietins Synthese und Konformationsstudien. *Liebigs Annalen Der Chemie*, **1986**, 1986, 914-931		6
49	Lsung des Problems mangelnder oraler Verfgbarkeit cyclischer Hexapeptide: Entwicklung eines selektiven, oral verfgbaren Liganden fr das Integrin 3. *Angewandte Chemie*, **2017**, 129, 16624-16629	3.6	5

48	Validation of [I]CPCR4.3 as an investigative tool for the sensitive and specific detection of hCXCR4 and mCXCR4 expression in vitro and in vivo. *EJNMMI Research*, **2019**, 9, 75	3.6	5
47	Erhöhte CXCR4-Affinität und Anti-HIV-Aktivität eines Peptoids durch Konformationsfixierung. *Angewandte Chemie*, **2012**, 124, 8234-8237	3.6	5
46	Backbone 1H, 13C and 15N resonance assignments for the 25.8 kDa DNA binding domain of the human p63 protein. *Journal of Biomolecular NMR*, **2003**, 26, 377-8	3	5
45	Peptidkonformationen, 41. Eine ungewöhnliche Konformation des cyclischen Pentapeptids cyclo(-Pro-Pro-Phe-Phe-Gly-) in DMSO. *Liebigs Annalen Der Chemie*, **1986**, 1986, 1687-1704		5
44	Optische Aktivität und Inversion in der 5. Hauptgruppe des Periodensystems. *Die Naturwissenschaften*, **1971**, 58, 46-51	2	5
43	Use of the Eu(fod)3-Induced Shift for Determination of the Complexation Site and for Signal Assignment in the 13C-NMR Spectra of Protected Dipeptides. *Angewandte Chemie International Edition in English*, **1974**, 13, 538-539		5
42	Nachweis von cis-trans-isomeren am benzol. *Tetrahedron Letters*, **1967**, 8, 153-156	2	5
41	Synthetic extracellular matrices with tailored adhesiveness and degradability support lumen formation during angiogenic sprouting. *Nature Communications*, **2021**, 12, 3402	17.4	5
40	1H, 13C and 15N resonance assignment of the nucleotide binding domain of KdpB from Escherichia coli. *Journal of Biomolecular NMR*, **2004**, 29, 437-8	3	4
39	Cellular solid-phase binding assay and mass spectrometry for screening of alpha 4 beta 7 integrin antagonists. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 2997-3000	2.9	4
38	Synthesis and structure of cyclic phosphopeptides containing a phosphodiester linkage. *Journal of Organic Chemistry*, **1993**, 58, 3722-3730	4.2	4
37	Computational Approach to the Receptor-Bound Conformation of Cyclosporin A. *Helvetica Chimica Acta*, **1994**, 77, 171-181	2	4
36	Toward the Understanding of Immunosuppression. *Angewandte Chemie International Edition in English*, **1991**, 30, 954-955		4
35	Evidence for functional selectivity in TUDC- and norUDCA-induced signal transduction via integrin towards choleresis. *Scientific Reports*, **2020**, 10, 5795	4.9	4
34	Von einer Helix zu einem kleinen Ring: Metadynamik-inspirierte, selektive Liganden für -Integrin. *Angewandte Chemie*, **2018**, 130, 14856-14860	3.6	3
33	Optimized measurement temperature gives access to the solution structure of a 49 kDa homohexameric propeller. *Journal of the American Chemical Society*, **2010**, 132, 15692-8	16.4	3
32	What are the structures of phakellistatin 2 and phakellistatin 4?. *International Journal of Peptide Research and Therapeutics*, **1997**, 4, 21-28		3
31	RNA DNA discrimination by the antitermination protein NusB. *Journal of Molecular Biology*, **2003**, 327, 973-83	6.5	3

30	Two-field-NOESY for precise determination of proton□proton distances and correlation times. *Journal of Chemical Physics*, **1999**, 111, 8253-8254	3.9	3
29	Structure investigation of amphiphilic cyclopeptides in isotropic and anisotropic environments-A model study simulating peptide-membrane interactions. *Journal of Peptide Science*, **1999**, 5, 507-18	2.1	3
28	The organometallic ferrocene exhibits amplified anti-tumor activity by targeted delivery via highly selective ligands to □3, □6, or □1 integrins. *Biomaterials*, **2021**, 271, 120754	15.6	3
27	Nonpeptidic alpha(v)beta(3) Integrin Antagonist Libraries: On-Bead Screening and Mass Spectrometric Identification without Tagging The authors acknowledge technical assistance from M. Urzinger, B. Cordes, M. Kranawetter, and A. Schr□er. Financial support of the Fonds der Chemischen Industrie and the Deutsche Forschungsgemeinschaft is gratefully acknowledged..	16.4	3
26	NCO-sP(EO-stat-PO) surface coatings preserve biochemical properties of RGD peptides. *International Journal of Molecular Medicine*, **2011**, 27, 139-45	4.4	2
25	Synthesis and NMR structure of peptidomimetic alpha4beta7-integrin antagonists. *ChemBioChem*, **2002**, 3, 575-8	3.8	2
24	Non-invasive determination of the □3 integrin expression using [18F]galacto-RGD and pet. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2001**, 44, S96-S98	1.9	2
23	13C-Edited Double-Quantum Spectroscopy of Peptides and Proteins. *Journal of Magnetic Resonance Series B*, **1994**, 105, 83-87		2
22	Syntheses of endo-exo-tetracyclo[3.3.1.02,407,8]Nonan-9-ones and the unusual course of their ketal hydrolysis. *Tetrahedron Letters*, **1973**, 14, 2371-2374	2	2
21	Synthese von substituierten homotropilidenen durch homo-1,4-eliminierung. *Tetrahedron Letters*, **1974**, 15, 1383-1386	2	2
20	Peptide conformation. 48. Conformation and biological activity of proline containing cyclic retro-analogues of somatostatin. *International Journal of Peptide and Protein Research*, **1988**, 31, 481-98		2
19	First in vivo data of [111In]maltose-Lys0(DOTA)-Tyr3-octreotide indicate a high potential of glycated, radiometalated octreotide derivatives for diagnosis and therapy. *Nuclear Medicine Communications*, **2000**, 21, 579	1.6	2
18	Halting the Spread of Herpes Simplex Virus-1: The Discovery of an Effective Dual □6/□8 Integrin Ligand. *Journal of Medicinal Chemistry*, **2021**, 64, 6972-6984	8.3	2
17	Integrin □1 nano-presentation regulates collective keratinocyte migration independent of substrate rigidity. *ELife*, **2021**, 10,	8.9	2
16	Identification of adeno-associated virus variants for gene transfer into human neural cell types by parallel capsid screening.. *Scientific Reports*, **2022**, 12, 8356	4.9	2
15	Assessment of a pro-healing stent in an animal model of early neoatherosclerosis. *Scientific Reports*, **2020**, 10, 8227	4.9	1
14	Protein folding by interaction. *Structure*, **2014**, 22, 936-7	5.2	1
13	Backbone 1H, 15N and 13C resonance assignments of alpha-ADT and beta-ADT. *Journal of Biomolecular NMR*, **2004**, 29, 209-10	3	1

12	NOESY around the critical point □ = 1.12. Precise determination of proton-proton distances and reorientation correlation times with two-field NOESY. *Molecular Physics*, **2000**, 98, 201-210	1.7	1
11	The Contact Contribution in the Lanthanoid-Induced Shift of 13C?O-NMR Signals. *Angewandte Chemie International Edition in English*, **1974**, 13, 537-538		1
10	The pseudo-beta I-turn. A new structural motif with a cis peptide bond in cyclic hexapeptides. *International Journal of Peptide and Protein Research*, **1994**, 43, 47-61		1
9	Molecular Signature of Astrocytes for Gene Delivery by the Synthetic Adeno-Associated Viral Vector rAAV9P1.. *Advanced Science*, **2022**, e2104979	13.6	1
8	Advanced quantification for single-cell adhesion by variable-angle TIRF nanoscopy. *Biophysical Reports*, **2021**, 1, 100021		0
7	Are we curing one evil with another? A translational approach targeting the role of neoatherosclerosis in late stent failure. *European Heart Journal Supplements*, **2020**, 22, C15-C25	1.5	
6	Peptidic Inhibitors of Protein□Protein Interactions for Cell Adhesion Receptors: RGD Peptides and Beyond **2013**, 257-290		
5	R□cktitelbild: Selektive Bildgebung der angiogenetisch relevanten Integrine □5□1 und □v□3 (Angew. Chem. 44/2013). *Angewandte Chemie*, **2013**, 125, 11882-11882	3.6	
4	Cover Picture: Breaking the Dogma of the Metal-Coordinating Carboxylate Group in Integrin Ligands: Introducing Hydroxamic Acids to the MIDAS To Tune Potency and Selectivity (Angew. Chem. Int. Ed. 24/2009). *Angewandte Chemie - International Edition*, **2009**, 48, 4255-4255	16.4	
3	Improved pharmacokinetics of [18F]RGD-peptides by serine-conjugation. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2001**, 44, S157-S159	1.9	
2	Stereoselektive □therbildung durch dehydratisierung von diolen. *Tetrahedron Letters*, **1968**, 9, 1461-1464	2	
1	Intraoperatives molekulares Bioimaging von Kopf-Hals-Karzinomen. *Der MKG-Chirurg*, **2018**, 11, 259-267	0.2	