

Gisbert Schneider

List of Publications by Citations

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452
papers

18,862
citations

65
h-index

119
g-index

515
ext. papers

21,754
ext. citations

6.8
avg. IF

7.38
L-index

#	Paper	IF	Citations
452	Designing antimicrobial peptides: form follows function. <i>Nature Reviews Drug Discovery</i> , 2011 , 11, 37-51	64.1	1190
451	Counting on natural products for drug design. <i>Nature Chemistry</i> , 2016 , 8, 531-41	17.6	592
450	Computer-based de novo design of drug-like molecules. <i>Nature Reviews Drug Discovery</i> , 2005 , 4, 649-63	64.1	583
449	Scaffold-Hopping by Topological Pharmacophore Search: A Contribution to Virtual Screening. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2894-2896	16.4	529
448	Comparison of support vector machine and artificial neural network systems for drug/nondrug classification. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1882-9		402
447	Virtual screening: an endless staircase?. <i>Nature Reviews Drug Discovery</i> , 2010 , 9, 273-6	64.1	368
446	Deep Learning in Drug Discovery. <i>Molecular Informatics</i> , 2016 , 35, 3-14	3.8	360
445	Automating drug discovery. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 97-113	64.1	275
444	Development of a virtual screening method for identification of "frequent hitters" in compound libraries. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 137-42	8.3	258
443	Predicting drug metabolism: experiment and/or computation?. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 387-404	64.1	255
442	Scaffold architecture and pharmacophoric properties of natural products and trade drugs: application in the design of natural product-based combinatorial libraries. <i>ACS Combinatorial Science</i> , 2001 , 3, 284-9		245
441	Concepts of Artificial Intelligence for Computer-Assisted Drug Discovery. <i>Chemical Reviews</i> , 2019 , 119, 10520-10594	68.1	243
440	PocketPicker: analysis of ligand binding-sites with shape descriptors. <i>Chemistry Central Journal</i> , 2007 , 1, 7		228
439	Virtual screening and fast automated docking methods. <i>Drug Discovery Today</i> , 2002 , 7, 64-70	8.8	228
438	Virtual screening and fast automated docking methods. <i>Drug Discovery Today</i> , 2002 , 7, 64-70	8.8	214
437	Helicobacter pylori HtrA is a new secreted virulence factor that cleaves E-cadherin to disrupt intercellular adhesion. <i>EMBO Reports</i> , 2010 , 11, 798-804	6.5	211
436	Generative Recurrent Networks for De Novo Drug Design. <i>Molecular Informatics</i> , 2018 , 37, 1700111	3.8	184

435	Rethinking drug design in the artificial intelligence era. <i>Nature Reviews Drug Discovery</i> , 2020 , 19, 353-364	4.1	179
434	Scaffold diversity of natural products: inspiration for combinatorial library design. <i>Natural Product Reports</i> , 2008 , 25, 892-904	15.1	178
433	De novo design of molecular architectures by evolutionary assembly of drug-derived building blocks. <i>Journal of Computer-Aided Molecular Design</i> , 2000 , 14, 487-94	4.2	178
432	Deciphering apicoplast targeting signals--feature extraction from nuclear-encoded precursors of Plasmodium falciparum apicoplast proteins. <i>Gene</i> , 2001 , 280, 19-26	3.8	177
431	Identifying the macromolecular targets of de novo-designed chemical entities through self-organizing map consensus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4067-72	11.5	169
430	Artificial neural networks for computer-based molecular design. <i>Progress in Biophysics and Molecular Biology</i> , 1998 , 70, 175-222	4.7	160
429	Optimized Particle Swarm Optimization (OPSO) and its application to artificial neural network training. <i>BMC Bioinformatics</i> , 2006 , 7, 125	3.6	156
428	De Novo Design of Bioactive Small Molecules by Artificial Intelligence. <i>Molecular Informatics</i> , 2018 , 37, 1700153	3.8	155
427	A virtual screening method for prediction of the HERG potassium channel liability of compound libraries. <i>ChemBioChem</i> , 2002 , 3, 455-9	3.8	152
426	DOGS: reaction-driven de novo design of bioactive compounds. <i>PLoS Computational Biology</i> , 2012 , 8, e1002380	5	151
425	Dual-display of small molecules enables the discovery of ligand pairs and facilitates affinity maturation. <i>Nature Chemistry</i> , 2015 , 7, 241-9	17.6	143
424	Support vector machine applications in bioinformatics. <i>Applied Bioinformatics</i> , 2003 , 2, 67-77		127
423	An unusual ERAD-like complex is targeted to the apicoplast of Plasmodium falciparum. <i>Eukaryotic Cell</i> , 2009 , 8, 1134-45		125
422	Scaffold-Hopping: How Far Can You Jump?. <i>QSAR and Combinatorial Science</i> , 2006 , 25, 1162-1171		123
421	Distinct roles of secreted HtrA proteases from gram-negative pathogens in cleaving the junctional protein and tumor suppressor E-cadherin. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10115-10120	5.4	122
420	Drug discovery with explainable artificial intelligence. <i>Nature Machine Intelligence</i> , 2020 , 2, 573-584	22.5	116
419	Collection of Bioactive Reference Compounds for Focused Library Design. <i>QSAR and Combinatorial Science</i> , 2003 , 22, 713-718		112
418	Chemically Advanced Template Search (CATS) for Scaffold-Hopping and Prospective Target Prediction for 'Orphan' Molecules. <i>Molecular Informatics</i> , 2013 , 32, 133-138	3.8	109

417	Active-learning strategies in computer-assisted drug discovery. <i>Drug Discovery Today</i> , 2015 , 20, 458-65	8.8	108
416	Properties and prediction of mitochondrial transit peptides from <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 2003 , 132, 59-66	1.9	105
415	The rational design of amino acid sequences by artificial neural networks and simulated molecular evolution: de novo design of an idealized leader peptidase cleavage site. <i>Biophysical Journal</i> , 1994 , 66, 335-44	2.9	105
414	Revealing the macromolecular targets of complex natural products. <i>Nature Chemistry</i> , 2014 , 6, 1072-8	17.6	100
413	Prediction of type III secretion signals in genomes of gram-negative bacteria. <i>PLoS ONE</i> , 2009 , 4, e5917	3.7	95
412	Recurrent Neural Network Model for Constructive Peptide Design. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 472-479	6.1	90
411	Self-organizing maps in drug discovery: compound library design, scaffold-hopping, repurposing. <i>Current Medicinal Chemistry</i> , 2009 , 16, 258-66	4.3	90
410	Advances in the prediction of protein targeting signals. <i>Proteomics</i> , 2004 , 4, 1571-80	4.8	90
409	Flux (1): a virtual synthesis scheme for fragment-based de novo design. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 699-707	6.1	88
408	De novo drug design. <i>Methods in Molecular Biology</i> , 2011 , 672, 299-323	1.4	87
407	Discovery of small-molecule interleukin-2 inhibitors from a DNA-encoded chemical library. <i>Chemistry - A European Journal</i> , 2012 , 18, 7729-37	4.8	83
406	De Novo Design at the Edge of Chaos. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4077-86	8.3	81
405	Scaffold-hopping potential of ligand-based similarity concepts. <i>ChemMedChem</i> , 2006 , 1, 181-5	3.7	80
404	Peptide lineup against Gram-negative bacterial infection [First-in-class peptide inhibitor of H. pylori HtrA. <i>Journal of Cheminformatics</i> , 2014 , 6,	8.6	78
403	Target prediction by cascaded self-organizing maps for ligand de-orphaning and side-effect investigation. <i>Journal of Cheminformatics</i> , 2014 , 6,	8.6	78
402	Visualization and virtual screening in molecular property spaces. <i>Journal of Cheminformatics</i> , 2011 , 3,	8.6	78
401	Feature-extraction from endopeptidase cleavage sites in mitochondrial targeting peptides 1998 , 30, 49-60		77
400	Accessing new chemical entities through microfluidic systems. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5750-8	16.4	76

399	Voyages to the (un)known: adaptive design of bioactive compounds. <i>Trends in Biotechnology</i> , 2009 , 27, 18-26	15.1	76
398	Simple 2,4-diacylphloroglucinols as classic transient receptor potential-6 activators--identification of a novel pharmacophore. <i>Molecular Pharmacology</i> , 2010 , 77, 368-77	4.3	74
397	Comparison of correlation vector methods for ligand-based similarity searching. <i>Journal of Computer-Aided Molecular Design</i> , 2003 , 17, 687-98	4.2	74
396	Virtual Screening for Bioactive Molecules by Evolutionary De Novo Design. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4130-4133	16.4	74
395	Properties and Architecture of Drugs and Natural Products Revisited. <i>Current Chemical Biology</i> , 2007 , 1, 115-127	0.4	74
394	Identification and functional analysis of cyclooxygenase-1 as a molecular target of boswellic acids. <i>Biochemical Pharmacology</i> , 2008 , 75, 503-13	6	73
393	Processing and classification of chemical data inspired by insect olfaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20285-9	11.5	70
392	Combining in vitro and in vivo pharmacokinetic data for prediction of hepatic drug clearance in humans by artificial neural networks and multivariate statistical techniques. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 5072-6	8.3	70
391	A collection of robust organic synthesis reactions for in silico molecule design. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 3093-8	6.1	69
390	Pseudoreceptor models in drug design: bridging ligand- and receptor-based virtual screening. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 667-77	64.1	69
389	Prediction of hepatic metabolic clearance: comparison and assessment of prediction models. <i>Clinical Pharmacokinetics</i> , 2001 , 40, 553-63	6.2	69
388	Ligand-based combinatorial design of selective purinergic receptor (A2A) antagonists using self-organizing maps. <i>ACS Combinatorial Science</i> , 2003 , 5, 233-7		65
387	Trends in virtual combinatorial library design. <i>Current Medicinal Chemistry</i> , 2002 , 9, 2095-101	4.3	65
386	Prediction of extracellular proteases of the human pathogen <i>Helicobacter pylori</i> reveals proteolytic activity of the Hp1018/19 protein HtrA. <i>PLoS ONE</i> , 2008 , 3, e3510	3.7	64
385	Multi-objective molecular de novo design by adaptive fragment prioritization. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4244-8	16.4	63
384	Privileged Structures Revisited. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7971-7974	16.4	61
383	Identification of natural-product-derived inhibitors of 5-lipoxygenase activity by ligand-based virtual screening. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 2640-6	8.3	61
382	The molecular mechanism of the inhibition by licofelone of the biosynthesis of 5-lipoxygenase products. <i>British Journal of Pharmacology</i> , 2007 , 152, 471-80	8.6	61

381	Peptide design by artificial neural networks and computer-based evolutionary search. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 12179-84	11.5	61
380	Automated De Novo Drug Design: Are We Nearly There Yet?. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10792-10803	16.4	60
379	Combining on-chip synthesis of a focused combinatorial library with computational target prediction reveals imidazopyridine GPCR ligands. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 582-5	16.4	60
378	Identification of human cathepsin G as a functional target of boswellic acids from the anti-inflammatory remedy frankincense. <i>Journal of Immunology</i> , 2009 , 183, 3433-42	5.3	60
377	Species-specific inhibition of APOBEC3C by the prototype foamy virus protein bet. <i>Journal of Biological Chemistry</i> , 2009 , 284, 5819-26	5.4	60
376	Extraction and visualization of potential pharmacophore points using support vector machines: application to ligand-based virtual screening for COX-2 inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 6997-7004	8.3	60
375	2,4-Diaminopyrimidines as histamine H4 receptor ligands--Scaffold optimization and pharmacological characterization. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 7186-96	3.4	57
374	Phenotype-based high-content chemical library screening identifies statins as inhibitors of in vivo lymphangiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E2665-74	11.5	57
373	Identification of E-cadherin signature motifs functioning as cleavage sites for Helicobacter pylori HtrA. <i>Scientific Reports</i> , 2016 , 6, 23264	4.9	56
372	Flux (2): comparison of molecular mutation and crossover operators for ligand-based de novo design. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 656-67	6.1	56
371	Nonlinear dimensionality reduction and mapping of compound libraries for drug discovery. <i>Journal of Molecular Graphics and Modelling</i> , 2012 , 34, 108-17	2.8	55
370	Active learning for computational chemogenomics. <i>Future Medicinal Chemistry</i> , 2017 , 9, 381-402	4.1	54
369	Common non-epigenetic drugs as epigenetic modulators. <i>Trends in Molecular Medicine</i> , 2013 , 19, 742-53	11.5	54
368	Kernel approach to molecular similarity based on iterative graph similarity. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 2280-6	6.1	54
367	SVM-based feature selection for characterization of focused compound collections. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 993-9		54
366	Aminothiazole-featured pirinixic acid derivatives as dual 5-lipoxygenase and microsomal prostaglandin E2 synthase-1 inhibitors with improved potency and efficiency in vivo. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 9031-44	8.3	52
365	Enabling future drug discovery by de novo design. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011 , 1, 742-759	7.9	51
364	Predicting compound selectivity by self-organizing maps: cross-activities of metabotropic glutamate receptor antagonists. <i>ChemMedChem</i> , 2006 , 1, 1066-8	3.7	51

363	Context-based identification of protein-protein interfaces and "hot-spot" residues. <i>Chemistry and Biology</i> , 2011 , 18, 344-53		50
362	Hyperforin is a novel type of 5-lipoxygenase inhibitor with high efficacy in vivo. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 2759-71	10.3	48
361	Fuzzy pharmacophore models from molecular alignments for correlation-vector-based virtual screening. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 4653-64	8.3	48
360	Grundgerüstwechsel (Scaffold-Hopping) durch topologische Pharmakophorsuche: ein Beitrag zum virtuellen Screening. <i>Angewandte Chemie</i> , 1999 , 111, 3068-3070	3.6	48
359	Development of artificial neural filters for pattern recognition in protein sequences. <i>Journal of Molecular Evolution</i> , 1993 , 36, 586-95	3.1	48
358	Characterisation of worldwide <i>Helicobacter pylori</i> strains reveals genetic conservation and essentiality of serine protease HtrA. <i>Molecular Microbiology</i> , 2016 , 99, 925-44	4.1	48
357	Revealing the Macromolecular Targets of Fragment-Like Natural Products. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10516-20	16.4	47
356	Inhibitors of <i>Helicobacter pylori</i> protease HtrA found by 'virtual ligand' screening combat bacterial invasion of epithelia. <i>PLoS ONE</i> , 2011 , 6, e17986	3.7	47
355	From machine learning to natural product derivatives that selectively activate transcription factor PPARgamma. <i>ChemMedChem</i> , 2010 , 5, 191-4	3.7	47
354	Local structural motifs of protein backbones are classified by self-organizing neural networks. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 833-42	1.9	47
353	modLAMP: Python for antimicrobial peptides. <i>Bioinformatics</i> , 2017 , 33, 2753-2755	7.2	46
352	Structure-activity relationship of nonacidic quinazolinone inhibitors of human microsomal prostaglandin synthase 1 (mPGES 1). <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 3792-803	8.3	46
351	Impact of conformational flexibility on three-dimensional similarity searching using correlation vectors. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 2324-32	6.1	46
350	Concept of combinatorial de novo design of drug-like molecules by particle swarm optimization. <i>Chemical Biology and Drug Design</i> , 2008 , 72, 16-26	2.9	45
349	A hierarchical clustering approach for large compound libraries. <i>Journal of Chemical Information and Modeling</i> , 2005 , 45, 807-15	6.1	45
348	A neural network model for the prediction of membrane-spanning amino acid sequences. <i>Protein Science</i> , 1994 , 3, 1597-601	6.3	45
347	Generative molecular design in low data regimes. <i>Nature Machine Intelligence</i> , 2020 , 2, 171-180	22.5	44
346	Designing Anticancer Peptides by Constructive Machine Learning. <i>ChemMedChem</i> , 2018 , 13, 1300-1302	3.7	44

345	Membranolytic anticancer peptides. <i>MedChemComm</i> , 2016 , 7, 2232-2245	5	44
344	Standardization of WT1 mRNA quantitation for minimal residual disease monitoring in childhood AML and implications of WT1 gene mutations: a European multicenter study. <i>Leukemia</i> , 2009 , 23, 1472-9 ^{10.7}		44
343	SmiLib v2.0: A Java-Based Tool for Rapid Combinatorial Library Enumeration. <i>QSAR and Combinatorial Science</i> , 2007 , 26, 407-410		44
342	Neural networks are useful tools for drug design. <i>Neural Networks</i> , 2000 , 13, 15-6	9.1	44
341	Crystal structures of mouse class II alcohol dehydrogenase reveal determinants of substrate specificity and catalytic efficiency. <i>Journal of Molecular Biology</i> , 2000 , 302, 441-53	6.5	44
340	Tuning artificial intelligence on the de novo design of natural-product-inspired retinoid X receptor modulators. <i>Communications Chemistry</i> , 2018 , 1,	6.3	44
339	Extending the structure-activity relationship of anthranilic acid derivatives as farnesoid X receptor modulators: development of a highly potent partial farnesoid X receptor agonist. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 8035-55	8.3	42
338	Scaffold hopping by "fuzzy" pharmacophores and its application to RNA targets. <i>ChemBioChem</i> , 2007 , 8, 1932-6	3.8	41
337	Mapping of protein surface cavities and prediction of enzyme class by a self-organizing neural network. <i>Protein Engineering, Design and Selection</i> , 2000 , 13, 83-8	1.9	41
336	Form follows function: shape analysis of protein cavities for receptor-based drug design. <i>Proteomics</i> , 2009 , 9, 451-9	4.8	40
335	Benzodioxoles: novel cannabinoid-1 receptor inverse agonists for the treatment of obesity. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 2115-27	8.3	39
334	Predicting olfactory receptor neuron responses from odorant structure. <i>Chemistry Central Journal</i> , 2007 , 1, 11		39
333	Bidirectional Molecule Generation with Recurrent Neural Networks. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1175-1183	6.1	39
332	Adhesion, invasion, and agglutination mediated by two trimeric autotransporters in the human uropathogen <i>Proteus mirabilis</i> . <i>Infection and Immunity</i> , 2010 , 78, 4882-94	3.7	38
331	Model structure of APOBEC3C reveals a binding pocket modulating ribonucleic acid interaction required for encapsidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12079-84	11.5	38
330	The state of the art of chemical biology. <i>ChemBioChem</i> , 2009 , 10, 16-29	3.8	38
329	Dimerization of human 5-lipoxygenase. <i>Biological Chemistry</i> , 2011 , 392, 1097-111	4.5	38
328	Neighborhood-preserving visualization of adaptive structure-activity landscapes: application to drug discovery. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11633-6	16.4	37

327	Multidimensional de novo design reveals 5-HT _{2B} receptor-selective ligands. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1551-5	16.4	36
326	From Complex Natural Products to Simple Synthetic Mimetics by Computational De Novo Design. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6789-92	16.4	36
325	Probing the bioactivity-relevant chemical space of robust reactions and common molecular building blocks. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1167-78	6.1	36
324	A critical overview of computational approaches employed for COVID-19 drug discovery. <i>Chemical Society Reviews</i> , 2021 , 50, 9121-9151	58.5	36
323	Multi-objective active machine learning rapidly improves structure-activity models and reveals new protein-protein interaction inhibitors. <i>Chemical Science</i> , 2016 , 7, 3919-3927	9.4	35
322	Binding to large enzyme pockets: small-molecule inhibitors of trypanothione reductase. <i>ChemMedChem</i> , 2014 , 9, 1880-91	3.7	34
321	Nonacidic inhibitors of human microsomal prostaglandin synthase 1 (mPGES 1) identified by a multistep virtual screening protocol. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 911-5	8.3	34
320	Analysis and prediction of mitochondrial targeting peptides. <i>Methods in Cell Biology</i> , 2001 , 65, 175-87	1.8	34
319	Native Electrospray Ionization Mass Spectrometry Reveals Multiple Facets of Aptamer-Ligand Interactions: From Mechanism to Binding Constants. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7486-7497	16.4	33
318	A Computational Method for Unveiling the Target Promiscuity of Pharmacologically Active Compounds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11520-11524	16.4	33
317	Structural properties of so-called NSAID-phospholipid-complexes. <i>European Journal of Pharmaceutical Sciences</i> , 2011 , 44, 103-16	5.1	33
316	Homology model adjustment and ligand screening with a pseudoreceptor of the human histamine H ₄ receptor. <i>ChemMedChem</i> , 2009 , 4, 820-7	3.7	33
315	Identification and validation of a potent type II inhibitor of inactive polo-like kinase 1. <i>ChemMedChem</i> , 2009 , 4, 1806-9	3.7	32
314	Coactosin-like protein functions as a stabilizing chaperone for 5-lipoxygenase: role of tryptophan 102. <i>Biochemical Journal</i> , 2009 , 425, 265-74	3.8	32
313	A fast virtual screening filter for cytochrome P450 3A4 inhibition liability of compound libraries. <i>QSAR and Combinatorial Science</i> , 2002 , 21, 249-256		32
312	How many potentially secreted proteins are contained in a bacterial genome?. <i>Gene</i> , 1999 , 237, 113-21	3.8	32
311	Hybrid Network Model for "Deep Learning" of Chemical Data: Application to Antimicrobial Peptides. <i>Molecular Informatics</i> , 2017 , 36, 1600011	3.8	31
310	Immunosuppressive small molecule discovered by structure-based virtual screening for inhibitors of protein-protein interactions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 258-61	16.4	31

309	Biological impact of freezing Plk1 in its inactive conformation in cancer cells. <i>Cell Cycle</i> , 2010 , 9, 761-73	4.7	31
308	Structure-based pharmacophore screening for natural-product-derived PPARgamma agonists. <i>ChemBioChem</i> , 2009 , 10, 75-8	3.8	31
307	Virtual screening for selective allosteric mGluR1 antagonists and structure-activity relationship investigations for coumarine derivatives. <i>ChemMedChem</i> , 2007 , 2, 1763-73	3.7	31
306	Scaffold-hopping cascade yields potent inhibitors of 5-lipoxygenase. <i>ChemMedChem</i> , 2008 , 3, 1535-8	3.7	31
305	New inhibitors of the Tat-TAR RNA interaction found with a "fuzzy" pharmacophore model. <i>ChemBioChem</i> , 2005 , 6, 1119-25	3.8	31
304	Feature-extraction from endopeptidase cleavage sites in mitochondrial targeting peptides. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998 , 30, 49-60	4.2	31
303	Automated de novo molecular design by hybrid machine intelligence and rule-driven chemical synthesis. <i>Nature Machine Intelligence</i> , 2019 , 1, 307-315	22.5	30
302	Scaffold hopping from natural products to synthetic mimetics by holistic molecular similarity. <i>Communications Chemistry</i> , 2018 , 1,	6.3	29
301	Reaction-driven de novo design, synthesis and testing of potential type II kinase inhibitors. <i>Future Medicinal Chemistry</i> , 2011 , 3, 415-24	4.1	29
300	Discovery and biological evaluation of a novel class of dual microsomal prostaglandin E2 synthase-1/5-lipoxygenase inhibitors based on 2-[(4,6-diphenethoxy)pyrimidin-2-yl]thio]hexanoic acid. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 4490-507	8.3	29
299	Shapelets: possibilities and limitations of shape-based virtual screening. <i>Journal of Computational Chemistry</i> , 2008 , 29, 108-14	3.5	29
298	Status of HTS Data Mining Approaches. <i>QSAR and Combinatorial Science</i> , 2004 , 23, 207-213		29
297	Peptide design in machina: development of artificial mitochondrial protein precursor cleavage sites by simulated molecular evolution. <i>Biophysical Journal</i> , 1995 , 68, 434-47	2.9	29
296	Multidimensional Design of Anticancer Peptides. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10370-4	16.4	28
295	Computer-Assisted Discovery of Retinoid X Receptor Modulating Natural Products and Isofunctional Mimetics. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5442-5447	8.3	28
294	Fragment-Based De Novo Design Reveals a Small-Molecule Inhibitor of Helicobacter Pylori HtrA. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10244-8	16.4	28
293	Scrutinizing MHC-I binding peptides and their limits of variation. <i>PLoS Computational Biology</i> , 2013 , 9, e1003088	5	28
292	Architecture, function and prediction of long signal peptides. <i>Briefings in Bioinformatics</i> , 2009 , 10, 569-78	3.4	28

291	Graph Kernels for Molecular Similarity. <i>Molecular Informatics</i> , 2010 , 29, 266-73	3.8	28
290	Molecular query language (MQL)--a context-free grammar for substructure matching. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 295-301	6.1	28
289	SMILIB: Rapid Assembly of Combinatorial Libraries in SMILES Notation. <i>QSAR and Combinatorial Science</i> , 2003 , 22, 719-721		28
288	De-orphaning the marine natural product (E)-marinopyrrole A by computational target prediction and biochemical validation. <i>Chemical Communications</i> , 2017 , 53, 2272-2274	5.8	27
287	Spotting and designing promiscuous ligands for drug discovery. <i>Chemical Communications</i> , 2016 , 52, 1135-8	5.8	27
286	Deorphaning pyrrolopyrazines as potent multi-target antimalarial agents. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7079-84	16.4	27
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