

Jiri Jiracek

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9023489/jiri-jiracek-publications-by-year.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

2,258
citations

25
h-index

44
g-index

105
ext. papers

2,514
ext. citations

4.7
avg, IF

4.57
L-index

#	Paper	IF	Citations
92	Characterization of Viral Insulin-Like Peptides Reveals Unique White Adipose Tissue Specific Characteristics. <i>Journal of the Endocrine Society</i> , 2021 , 5, A437-A438	0.4	78
91	A radioligand receptor binding assay for measuring of insulin secreted by MIN6 cells after stimulation with glucose, arginine, ornithine, dopamine, and serotonin. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 4531-4543	4.4	2
90	Characterization of viral insulins reveals white adipose tissue-specific effects in mice. <i>Molecular Metabolism</i> , 2021 , 44, 101121	8.8	5
89	Multipodal insulin mimetics built on adamantane or proline scaffolds. <i>Bioorganic Chemistry</i> , 2021 , 107, 104548	5.1	0
88	Insulin Analogues with Altered Insulin Receptor Isoform Binding Specificities and Enhanced Aggregation Stabilities. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 14848-14859	8.3	0
87	Radiolabeled hormones in insulin research, a minireview. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020 , 63, 576-581	1.9	
86	Acid-Stable Ester Linkers for the Solid-Phase Synthesis of Immobilized Peptides. <i>ChemPlusChem</i> , 2020 , 85, 1297-1306	2.8	
85	The efficiency of insulin production and its content in insulin-expressing model cells correlate with their Zn levels. <i>Open Biology</i> , 2020 , 10, 200137	7	3
84	A radioligand binding assay for the insulin-like growth factor 2 receptor. <i>PLoS ONE</i> , 2020 , 15, e0238393	3.7	2
83	A radioligand binding assay for the insulin-like growth factor 2 receptor 2020 , 15, e0238393		
82	A radioligand binding assay for the insulin-like growth factor 2 receptor 2020 , 15, e0238393		
81	A radioligand binding assay for the insulin-like growth factor 2 receptor 2020 , 15, e0238393		
80	A radioligand binding assay for the insulin-like growth factor 2 receptor 2020 , 15, e0238393		
79	Mutations at hypothetical binding site 2 in insulin and insulin-like growth factors 1 and 2 result in receptor- and hormone-specific responses. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17371-17382	5.4	10
78	From venom peptides to a potential diabetes treatment. <i>ELife</i> , 2019 , 8,	8.9	2
77	Cross-Linking/Mass Spectrometry Uncovers Details of Insulin-Like Growth Factor Interaction With Insect Insulin Binding Protein Imp-L2. <i>Frontiers in Endocrinology</i> , 2019 , 10, 695	5.7	2
76	Pressure assisted partial filling affinity capillary electrophoresis employed for determination of binding constants of human insulin hexamer complexes with serotonin, dopamine, arginine, and phenol. <i>Analytica Chimica Acta</i> , 2019 , 1052, 170-178	6.6	27

75	Converting Insulin-like Growth Factors 1 and 2 into High-Affinity Ligands for Insulin Receptor Isoform A by the Introduction of an Evolutionarily Divergent Mutation. <i>Biochemistry</i> , 2018 , 57, 2373-2382 ^{3,2}	10
74	A versatile insulin analog with high potency for both insulin and insulin-like growth factor 1 receptors: Structural implications for receptor binding. <i>Journal of Biological Chemistry</i> , 2018 , 293, 16818-16829 ^{5,4}	2
73	Can Arginine Inhibit Insulin Aggregation? A Combined Protein Crystallography, Capillary Electrophoresis, and Molecular Simulation Study. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 10069-10076 ^{3,4}	21
72	Tri-Orthogonal Scaffolds for the Solid-Phase Synthesis of Peptides. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 5180-5192	3.2 5
71	Probing Tripodal Peptide Scaffolds as Insulin and IGF-1 Receptor Ligands. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 5193-5201	3.2 0
70	Optimized syntheses of Fmoc azido amino acids for the preparation of azidopeptides. <i>Journal of Peptide Science</i> , 2017 , 23, 202-214	2.1 10
69	Computational and structural evidence for neurotransmitter-mediated modulation of the oligomeric states of human insulin in storage granules. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8342-8355 ^{5,4}	12
68	Insulin-like Growth Factor 1 Analogs Clicked in the C Domain: Chemical Synthesis and Biological Activities. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 10105-10117	8.3 13
67	Structural Perspectives of Insulin Receptor Isoform-Selective Insulin Analogs. <i>Frontiers in Endocrinology</i> , 2017 , 8, 167	5.7 16
66	Synthesis and Evaluation of a Library of Trifunctional Scaffold-Derived Compounds as Modulators of the Insulin Receptor. <i>ACS Combinatorial Science</i> , 2016 , 18, 710-722	3.9 14
65	Insulin-Insulin-like Growth Factors Hybrids as Molecular Probes of Hormone:Receptor Binding Specificity. <i>Biochemistry</i> , 2016 , 55, 2903-13	3.2 16
64	Probing Receptor Specificity by Sampling the Conformational Space of the Insulin-like Growth Factor II C-domain. <i>Journal of Biological Chemistry</i> , 2016 , 291, 21234-21245	5.4 12
63	Rational steering of insulin binding specificity by intra-chain chemical crosslinking. <i>Scientific Reports</i> , 2016 , 6, 19431	4.9 19
62	The Development of a Versatile Trifunctional Scaffold for Biological Applications. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 3689-3701	3.2 19
61	A CuAAC-Hydrazone-CuAAC Trifunctional Scaffold for the Solid-Phase Synthesis of Trimodal Compounds: Possibilities and Limitations. <i>Molecules</i> , 2015 , 20, 19310-29	4.8 11
60	Mono-N-acyl-2,6-diaminopimelic acid derivatives: analysis by electromigration and spectroscopic methods and examination of enzyme inhibitory activity. <i>Analytical Biochemistry</i> , 2014 , 467, 4-13	3.1 5
59	Insight into the structural and biological relevance of the T/R transition of the N-terminus of the B-chain in human insulin. <i>Biochemistry</i> , 2014 , 53, 3392-402	3.2 25
58	Structural and functional study of the GlnB22-insulin mutant responsible for maturity-onset diabetes of the young. <i>PLoS ONE</i> , 2014 , 9, e112883	3.7 16

57	Specific potassium ion interactions facilitate homocysteine binding to betaine-homocysteine S-methyltransferase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 2552-64	4.2	6
56	Human insulin analogues modified at the B26 site reveal a hormone conformation that is undetected in the receptor complex. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 2765-74		24
55	Quantification of homocysteine-related metabolites and the role of betaine-homocysteine S-methyltransferase in HepG2 cells. <i>Biomedical Chromatography</i> , 2013 , 27, 111-21	1.7	18
54	Effects of hyperhomocysteinemia and betaine-homocysteine S-methyltransferase inhibition on hepatocyte metabolites and the proteome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013 , 1834, 1596-606	4	6
53	Simplified syntheses of the water-soluble chiral shift reagents Sm-(R)-pdta and Sm-(S)-pdta. <i>Tetrahedron Letters</i> , 2013 , 54, 6296-6297	2	1
52	How insulin engages its primary binding site on the insulin receptor. <i>Nature</i> , 2013 , 493, 241-5	50.4	270
51	The development of a new class of inhibitors for betaine-homocysteine S-methyltransferase. <i>European Journal of Medicinal Chemistry</i> , 2013 , 65, 256-75	6.8	12
50	Structural integrity of the B24 site in human insulin is important for hormone functionality. <i>Journal of Biological Chemistry</i> , 2013 , 288, 10230-40	5.4	34
49	Double-headed sulfur-linked amino acids as first inhibitors for betaine-homocysteine S-methyltransferase 2. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6822-31	8.3	4
48	S1 pocket fingerprints of human and bacterial methionine aminopeptidases determined using fluorogenic libraries of substrates and phosphorus based inhibitors. <i>Biochimie</i> , 2012 , 94, 704-10	4.6	16
47	Insulin and insulin-like growth factor II differentially regulate endocytic sorting and stability of insulin receptor isoform A. <i>Journal of Biological Chemistry</i> , 2012 , 287, 11422-36	5.4	62
46	Unusual activity pattern of leucine aminopeptidase inhibitors based on phosphorus containing derivatives of methionine and norleucine. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011 , 26, 155-61	5.6	10
45	Non-equivalent role of inter- and intramolecular hydrogen bonds in the insulin dimer interface. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36968-77	5.4	27
44	Implications for the active form of human insulin based on the structural convergence of highly active hormone analogues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1966-70	11.5	44
43	Dietary intake of S-(alpha-carboxybutyl)-DL-homocysteine induces hyperhomocysteinemia in rats. <i>Nutrition Research</i> , 2010 , 30, 492-500	4	23
42	Synthesis of N-succinyl-L,L-diaminopimelic acid mimetics via selective protection. <i>Protein and Peptide Letters</i> , 2010 , 17, 405-9	1.9	5
41	Inhibitors of N(alpha)-acetyl-L-ornithine deacetylase: synthesis, characterization and analysis of their inhibitory potency. <i>Amino Acids</i> , 2010 , 38, 1155-64	3.5	7
40	Synthesis of beta-carboxyphosphinopeptides derived from norleucine. <i>Amino Acids</i> , 2010 , 39, 1265-80	3.5	2

39	Changes in the proteomes of the hemocytes and fat bodies of the flesh fly <i>Sarcophaga bullata</i> larvae after infection by <i>Escherichia coli</i> . <i>Proteome Science</i> , 2010 , 8, 1	2.6	51
38	Efficient synthesis of phosphonodepsipeptides derived from norleucine. <i>Tetrahedron</i> , 2009 , 65, 6090-6103	4.1	14
37	Structure-activity study of new inhibitors of human betaine-homocysteine S-methyltransferase. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3652-65	8.3	10
36	Two-dimensional electrophoretic comparison of metastatic and non-metastatic human breast tumors using in vitro cultured epithelial cells derived from the cancer tissues. <i>BMC Cancer</i> , 2008 , 8, 107	4.8	14
35	Insulin analogues with modifications at position B26. Divergence of binding affinity and biological activity. <i>Biochemistry</i> , 2008 , 47, 5858-68	3.2	28
34	2-DE analysis of breast cancer cell lines 1833 and 4175 with distinct metastatic organ-specific potentials: Comparison with parental cell line MDA-MB-231. <i>Oncology Reports</i> , 2008 ,	3.5	6
33	Synthesis of norleucine-derived phosphonopeptides. <i>Tetrahedron Letters</i> , 2008 , 49, 4366-4368	2	8
32	Mapping the peptide and protein immune response in the larvae of the fleshfly <i>Sarcophaga bullata</i> . <i>Journal of Peptide Science</i> , 2008 , 14, 670-82	2.1	12
31	Evaluation of carrier ampholyte-based capillary electrophoresis for separation of peptides and peptide mimetics. <i>Electrophoresis</i> , 2008 , 29, 3759-67	3.6	11
30	Synthesis of methionine- and norleucine-derived phosphinopeptides. <i>Tetrahedron Letters</i> , 2008 , 49, 5629-5631	4.1	14
29	2-DE analysis of breast cancer cell lines 1833 and 4175 with distinct metastatic organ-specific potentials: comparison with parental cell line MDA-MB-231. <i>Oncology Reports</i> , 2008 , 19, 1237-44	3.5	13
28	The use of Fmoc-Lys(Pac)-OH and penicillin G acylase in the preparation of novel semisynthetic insulin analogs. <i>Journal of Peptide Science</i> , 2007 , 13, 334-41	2.1	13
27	2-DE analysis of a new human cell line EM-G3 derived from breast cancer progenitor cells and comparison with normal mammary epithelial cells. <i>Proteomics</i> , 2007 , 7, 1549-59	4.8	17
26	Determination of pK(a) values of diastereomers of phosphinic pseudopeptides by CZE. <i>Electrophoresis</i> , 2006 , 27, 4648-57	3.6	26
25	Activation of murine RNase L by isopolar 2Tphosphonate analogues of 2T5Toligoadenylates. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3955-62	8.3	12
24	S-alkylated homocysteine derivatives: new inhibitors of human betaine-homocysteine S-methyltransferase. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3982-9	8.3	25
23	Inhibition of betaine-homocysteine S-methyltransferase causes hyperhomocysteinemia in mice. <i>Journal of Nutrition</i> , 2006 , 136, 1493-7	4.1	46
22	A new colorimetric assay for methionyl aminopeptidases: examination of the binding of a new class of pseudopeptide analog inhibitors. <i>Analytical Biochemistry</i> , 2006 , 357, 43-9	3.1	13

21	The role of betaine-homocysteine S-methyltransferase (BHMT) in the regulation of plasma total homocysteine (tHcy). <i>FASEB Journal</i> , 2006 , 20, A859	0.9	
20	Preparation and characterization of two LysB29 specifically labelled fluorescent derivatives of human insulin. <i>Journal of Peptide Science</i> , 2004 , 10, 470-8	2.1	6
19	Shortened insulin analogues: marked changes in biological activity resulting from replacement of TyrB26 and N-methylation of peptide bonds in the C-terminus of the B-chain. <i>Biochemistry</i> , 2004 , 43, 2323-31	3.2	21
18	Dissecting the catalytic mechanism of betaine-homocysteine S-methyltransferase by use of intrinsic tryptophan fluorescence and site-directed mutagenesis. <i>Biochemistry</i> , 2004 , 43, 5341-51	3.2	28
17	Physicochemical characterization of phosphinic pseudopeptides by capillary zone electrophoresis in highly acidic background electrolytes. <i>Electrophoresis</i> , 2003 , 24, 774-81	3.6	44
16	Separation of diastereomers of phosphinic pseudopeptides by capillary zone electrophoresis and reverse phase high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2003 , 26, 653-660 ^{3,4}		15
15	Combining combinatorial chemistry and affinity chromatography: highly selective inhibitors of human betaine: homocysteine S-methyltransferase. <i>Chemistry and Biology</i> , 2003 , 10, 113-22		27
14	Betaine-homocysteine methyltransferase: zinc in a distorted barrel. <i>Structure</i> , 2002 , 10, 1159-71	5.2	100
13	Analysis and characterization of phosphinic pseudopeptides by capillary zone electrophoresis. <i>Electrophoresis</i> , 2002 , 23, 215-22	3.6	20
12	Determination of dissociation constant of phosphinate group in phosphinic pseudopeptides by capillary zone electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 770, 145-54	3.2	36
11	Side reactions during photochemical cleavage of an alpha-methyl-6-nitroveratryl-based photolabile linker. <i>Journal of Peptide Science</i> , 2000 , 6, 355-65	2.1	21
10	Phosphinic acid compounds in biochemistry, biology and medicine. <i>Current Medicinal Chemistry</i> , 2000 , 7, 629-47	4.3	171
9	RXP 407, a phosphinic peptide, is a potent inhibitor of angiotensin I converting enzyme able to differentiate between its two active sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 4330-5	11.5	151
8	Theory of the correlation between capillary and free-flow zone electrophoresis and its use for the conversion of analytical capillary separations to continuous free-flow preparative processes. Application to analysis and preparation of fragments of insulin. <i>Journal of Chromatography A</i> , 1998 , 796, 211-20	4.5	44
7	Examination of the role of endopeptidase 3.4.24.15 in A beta secretion by human transfected cells. <i>British Journal of Pharmacology</i> , 1997 , 121, 556-62	8.6	34
6	Effect of a novel selective and potent phosphinic peptide inhibitor of endopeptidase 3.4.24.16 on neurotensin-induced analgesia and neuronal inactivation. <i>British Journal of Pharmacology</i> , 1997 , 121, 705-10	8.6	29
5	Protection of the Hydroxyphosphinyl Function of Phosphinic Dipeptides by Adamantyl. Application to the Solid-Phase Synthesis of Phosphinic Peptides. <i>Journal of Organic Chemistry</i> , 1996 , 61, 6601-6605	4.2	67
4	Development of the first potent and selective inhibitor of the zinc endopeptidase neurolysin using a systematic approach based on combinatorial chemistry of phosphinic peptides. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19606-11	5.4	79

- | | | | |
|---|---|-----|----|
| 3 | Development of highly potent and selective phosphinic peptide inhibitors of zinc endopeptidase 24-15 using combinatorial chemistry. <i>Journal of Biological Chemistry</i> , 1995 , 270, 21701-6 | 5-4 | 93 |
| 2 | Semisynthetic insulin analogues modified in positions B24, B25 and B29. <i>Biological Chemistry Hoppe-Seyler</i> , 1994 , 375, 373-8 | | 9 |
| 1 | Purification of Penicillin Amidohydrolase, an Enzyme for Semisynthetic Procedures. <i>Collection of Czechoslovak Chemical Communications</i> , 1992 , 57, 2187-2191 | | 2 |