

Jiri Jiracek

List of Publications by Citations

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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	How insulin engages its primary binding site on the insulin receptor. <i>Nature</i> , 2013 , 493, 241-5	50.4	270
91	Phosphinic acid compounds in biochemistry, biology and medicine. <i>Current Medicinal Chemistry</i> , 2000 , 7, 629-47	4.3	171
90	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
89	Betaine-homocysteine methyltransferase: zinc in a distorted barrel. <i>Structure</i> , 2002 , 10, 1159-71	5.2	100
88	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
87	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
86	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
85	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
84	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
83	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
82	Inhibition of betaine-homocysteine S-methyltransferase causes hyperhomocysteinemia in mice. <i>Journal of Nutrition</i> , 2006 , 136, 1493-7	4.1	46
81	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
80	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
79	Physicochemical characterization of phosphinic pseudopeptides by capillary zone electrophoresis in highly acidic background electrolytes. <i>Electrophoresis</i> , 2003 , 24, 774-81	3.6	44
78	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
77	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
76	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

75	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
74	Insulin analogues with modifications at position B26. Divergence of binding affinity and biological activity. <i>Biochemistry</i> , 2008 , 47, 5858-68	3.2	28
73	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
72	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
71	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
70	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
69	Determination of pK(a) values of diastereomers of phosphinic pseudo-peptides by CZE. <i>Electrophoresis</i> , 2006 , 27, 4648-57	3.6	26
68	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
67	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
66	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
65	Dietary intake of S-(alpha-carboxybutyl)-DL-homocysteine induces hyperhomocysteinemia in rats. <i>Nutrition Research</i> , 2010 , 30, 492-500	4	23
64	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
63	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
62	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
61	Analysis and characterization of phosphinic pseudo-peptides by capillary zone electrophoresis. <i>Electrophoresis</i> , 2002 , 23, 215-22	3.6	20
60	The Development of a Versatile Trifunctional Scaffold for Biological Applications. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 3689-3701	3.2	19
59	Rational steering of insulin binding specificity by intra-chain chemical crosslinking. <i>Scientific Reports</i> , 2016 , 6, 19431	4.9	19
58	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

57	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
56	Insulin-Insulin-like Growth Factors Hybrids as Molecular Probes of Hormone:Receptor Binding Specificity. <i>Biochemistry</i> , 2016 , 55, 2903-13	3.2	16
55	Structural Perspectives of Insulin Receptor Isoform-Selective Insulin Analogs. <i>Frontiers in Endocrinology</i> , 2017 , 8, 167	5.7	16
54	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
53	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
52	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}	3.4	15
51	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
50	Efficient synthesis of phosphonodepsipeptides derived from norleucine. <i>Tetrahedron</i> , 2009 , 65, 6090-6103 ³	3.4	14
49	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
48	Synthesis of methionine- and norleucine-derived phosphinopeptides. <i>Tetrahedron Letters</i> , 2008 , 49, 5629-5631 ¹⁴	2.9	14
47	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
46	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
45	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
44	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
43	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}	5.4	12
42	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
41	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
40	Activation of murine RNase L by isopolar 2Tphosphonate analogues of 2T5Toligoadenylates. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3955-62	8.3	12

39	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
38	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
37	Evaluation of carrier ampholyte-based capillary electrophoresis for separation of peptides and peptide mimetics. <i>Electrophoresis</i> , 2008 , 29, 3759-67	3.6	11
36	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
35	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
34	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
33	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
32	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
31	Semisynthetic insulin analogues modified in positions B24, B25 and B29. <i>Biological Chemistry Hoppe-Seyler</i> , 1994 , 375, 373-8		9
30	Synthesis of norleucine-derived phosphonopeptides. <i>Tetrahedron Letters</i> , 2008 , 49, 4366-4368	2	8
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	Characterization of viral insulins reveals white adipose tissue-specific effects in mice. <i>Molecular Metabolism</i> , 2021 , 44, 101121	8.8	5

21	Tri-Orthogonal Scaffolds for the Solid-Phase Synthesis of Peptides. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 5180-5192	3.2	5
20	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
19	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
18	Synthesis of α -carboxyphosphinopeptides derived from norleucine. <i>Amino Acids</i> , 2010 , 39, 1265-80	3.5	2
17	Purification of Penicillin Amidohydrolase, an Enzyme for Semisynthetic Procedures. <i>Collection of Czechoslovak Chemical Communications</i> , 1992 , 57, 2187-2191		2
16	From venom peptides to a potential diabetes treatment. <i>ELife</i> , 2019 , 8,	8.9	2
15	A radioligand binding assay for the insulin-like growth factor 2 receptor. <i>PLoS ONE</i> , 2020 , 15, e0238393	3.7	2
14	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
13	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
12	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 ²	5.4	2
11	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
10	Multipodal insulin mimetics built on adamantane or proline scaffolds. <i>Bioorganic Chemistry</i> , 2021 , 107, 104548	5.1	0
9	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
8	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
7	Radiolabeled hormones in insulin research, a minireview. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020 , 63, 576-581	1.9	
6	Acid-Stable Ester Linkers for the Solid-Phase Synthesis of Immobilized Peptides. <i>ChemPlusChem</i> , 2020 , 85, 1297-1306	2.8	
5	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	
4	A radioligand binding assay for the insulin-like growth factor 2 receptor 2020 , 15, e0238393		

- 3 A radioligand binding assay for the insulin-like growth factor 2 receptor **2020**, 15, e0238393
- 2 A radioligand binding assay for the insulin-like growth factor 2 receptor **2020**, 15, e0238393
- 1 A radioligand binding assay for the insulin-like growth factor 2 receptor **2020**, 15, e0238393