

Jiri Jiracek

List of Publications by Year in descending order

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102
papers

2,668
citations

201674

27
h-index

206112

48
g-index

105
all docs

105
docs citations

105
times ranked

2693
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional stapled fragments of human preptin of minimised length. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2446-2454.	2.8	3
2	Chiral analysis of ^{125}I -Alanyl-L-Tyrosine and its derivatives and estimation of binding constants of their complexes with ^{125}I -hydroxypropyl- β -cyclodextrin by capillary electrophoresis. <i>Journal of Separation Science</i> , 2022, 45, 3328-3338.	2.5	5
3	Characterization of viral insulins reveals white adipose tissue-specific effects in mice. <i>Molecular Metabolism</i> , 2021, 44, 101121.	6.5	13
4	Multipodal insulin mimetics built on adamantane or proline scaffolds. <i>Bioorganic Chemistry</i> , 2021, 107, 104548.	4.1	3
5	Characterization of Viral Insulin-Like Peptides Reveals Unique White Adipose Tissue Specific Characteristics. <i>Journal of the Endocrine Society</i> , 2021, 5, A437-A438.	0.2	0
6	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.	3.7	8
7	336-OR: Mandarin Fish Ranavirus Viral Insulin/IGF-Like Peptide Inhibits Human IGF-1 Receptor. <i>Diabetes</i> , 2021, 70, 336-OR.	0.6	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.	6.4	7
9	Application of Capillary and Free-Flow Zone Electrophoresis for Analysis and Purification of Antimicrobial ^{125}I -Alanyl-Tyrosine from Hemolymph of Fleshfly <i>Neobellieria bullata</i> . <i>Molecules</i> , 2021, 26, 5636.	3.8	5
10	The efficiency of insulin production and its content in insulin-expressing model β -cells correlate with their Zn ²⁺ levels. <i>Open Biology</i> , 2020, 10, 200137.	3.6	5
11	A radioligand binding assay for the insulin-like growth factor 2 receptor. <i>PLoS ONE</i> , 2020, 15, e0238393.	2.5	8
12	Radiolabeled hormones in insulin research, a minireview. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020, 63, 576-581.	1.0	3
13	Acid-Stable Ester Linkers for the Solid-Phase Synthesis of Immobilized Peptides. <i>ChemPlusChem</i> , 2020, 85, 1297-1306.	2.8	0
14	A radioligand binding assay for the insulin-like growth factor 2 receptor. , 2020, 15, e0238393.		0
15	A radioligand binding assay for the insulin-like growth factor 2 receptor. , 2020, 15, e0238393.		0
16	A radioligand binding assay for the insulin-like growth factor 2 receptor. , 2020, 15, e0238393.		0
17	A radioligand binding assay for the insulin-like growth factor 2 receptor. , 2020, 15, e0238393.		0
18	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.	3.4	21

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19	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.	3.5	3
20	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.	5.4	49
21	From venom peptides to a potential diabetes treatment. <i>ELife</i> , 2019, 8, .	6.0	6
22	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.	2.5	16
23	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.	3.4	6
24	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.	2.6	28
25	Tri-Orthogonal Scaffolds for the Solid-Phase Synthesis of Peptides. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5180-5192.	2.4	7
26	Probing Tripodal Peptide Scaffolds as Insulin and IGF-1 Receptor Ligands. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5193-5201.	2.4	2
27	Optimized syntheses of Fmoc azido amino acids for the preparation of azidopeptides. <i>Journal of Peptide Science</i> , 2017, 23, 202-214.	1.4	17
28	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.	3.4	18
29	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.	6.4	18
30	Structural Perspectives of Insulin Receptor Isoform-Selective Insulin Analogs. <i>Frontiers in Endocrinology</i> , 2017, 8, 167.	3.5	23
31	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.	3.4	22
32	Rational steering of insulin binding specificity by intra-chain chemical crosslinking. <i>Scientific Reports</i> , 2016, 6, 19431.	3.3	20
33	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.	3.8	17
34	Insulin-like Growth Factors Hybrids as Molecular Probes of Hormone:Receptor Binding Specificity. <i>Biochemistry</i> , 2016, 55, 2903-2913.	2.5	24
35	The Development of a Versatile Trifunctional Scaffold for Biological Applications. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 3689-3701.	2.4	23
36	A CuAAC-Hydrazone-CuAAC Trifunctional Scaffold for the Solid-Phase Synthesis of Trimodal Compounds: Possibilities and Limitations. <i>Molecules</i> , 2015, 20, 19310-19329.	3.8	13

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37	Structural and Functional Study of the GlnB22-Insulin Mutant Responsible for Maturity-Onset Diabetes of the Young. PLoS ONE, 2014, 9, e112883.	2.5	22
38	Specific potassium ion interactions facilitate homocysteine binding to betaine-homocysteine S-methyltransferase. Proteins: Structure, Function and Bioinformatics, 2014, 82, 2552-2564.	2.6	10
39	Human insulin analogues modified at the B26 site reveal a hormone conformation that is undetected in the receptor complex. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2765-2774.	2.5	29
40	Mono-N-acyl-2,6-diaminopimelic acid derivatives: Analysis by electromigration and spectroscopic methods and examination of enzyme inhibitory activity. Analytical Biochemistry, 2014, 467, 4-13.	2.4	6
41	Insight into the Structural and Biological Relevance of the T/R Transition of the N-Terminus of the B-Chain in Human Insulin. Biochemistry, 2014, 53, 3392-3402.	2.5	33
42	Quantification of homocysteine-related metabolites and the role of betaine-homocysteine S-methyltransferase in HepG2 cells. Biomedical Chromatography, 2013, 27, 111-121.	1.7	20
43	Effects of hyperhomocysteinemia and betaine-homocysteine S-methyltransferase inhibition on hepatocyte metabolites and the proteome. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1596-1606.	2.3	7
44	Simplified syntheses of the water-soluble chiral shift reagents Sm-(R)-pdta and Sm-(S)-pdta. Tetrahedron Letters, 2013, 54, 6296-6297.	1.4	3
45	How insulin engages its primary binding site on the insulin receptor. Nature, 2013, 493, 241-245.	27.8	364
46	The development of a new class of inhibitors for betaine-homocysteine S-methyltransferase. European Journal of Medicinal Chemistry, 2013, 65, 256-275.	5.5	17
47	Structural Integrity of the B24 Site in Human Insulin Is Important for Hormone Functionality*. Journal of Biological Chemistry, 2013, 288, 10230-10240.	3.4	38
48	Insulin and Insulin-like Growth Factor II Differentially Regulate Endocytic Sorting and Stability of Insulin Receptor Isoform A. Journal of Biological Chemistry, 2012, 287, 11422-11436.	3.4	76
49	Double-Headed Sulfur-Linked Amino Acids As First Inhibitors for Betaine-Homocysteine S-Methyltransferase 2. Journal of Medicinal Chemistry, 2012, 55, 6822-6831.	6.4	4
50	S1 pocket fingerprints of human and bacterial methionine aminopeptidases determined using fluorogenic libraries of substrates and phosphorus based inhibitors. Biochimie, 2012, 94, 704-710.	2.6	19
51	The synthesis of phosphonic acids derived from homocysteine via transesterification reactions. Arkivoc, 2012, 2012, 80-99.	0.5	0
52	Unusual activity pattern of leucine aminopeptidase inhibitors based on phosphorus containing derivatives of methionine and norleucine. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 155-161.	5.2	11
53	Non-equivalent Role of Inter- and Intramolecular Hydrogen Bonds in the Insulin Dimer Interface. Journal of Biological Chemistry, 2011, 286, 36968-36977.	3.4	31
54	Capillary electrophoresis applied to analysis and characterization of mono-N-acyl-2,6-diaminopimelic acid derivatives. , 2011, , .		0

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55	Synthesis of N-Succinyl-L,L-Diaminopimelic Acid Mimetics Via Selective Protection. <i>Protein and Peptide Letters</i> , 2010, 17, 405-409.	0.9	5
56	Inhibitors of N ^ε -acetyl-L-ornithine deacetylase: synthesis, characterization and analysis of their inhibitory potency. <i>Amino Acids</i> , 2010, 38, 1155-1164.	2.7	8
57	Synthesis of ϵ -carboxyphosphinopeptides derived from norleucine. <i>Amino Acids</i> , 2010, 39, 1265-1280.	2.7	3
58	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.	1.7	71
59	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, 1966-1970.	7.1	48
60	Dietary intake of S-(ϵ -carboxybutyl)-dl-homocysteine induces hyperhomocysteinemia in rats. <i>Nutrition Research</i> , 2010, 30, 492-500.	2.9	23
61	Efficient synthesis of phosphonodepsipeptides derived from norleucine. <i>Tetrahedron</i> , 2009, 65, 6090-6103.	1.9	14
62	Structure-Activity Study of New Inhibitors of Human Betaine-Homocysteine S-Methyltransferase. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3652-3665.	6.4	10
63	Analogues of Orn and DAP as potential inhibitors of bacterial enzymes ArgE and DapE. , 2009, , .		0
64	Synthesis of norleucine-derived phosphinopeptides. <i>Tetrahedron Letters</i> , 2008, 49, 4366-4368.	1.4	9
65	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, 670-682.	1.4	15
66	Evaluation of carrier ampholyte-based capillary electrophoresis for separation of peptides and peptide mimetics. <i>Electrophoresis</i> , 2008, 29, 3759-3767.	2.4	11
67	Synthesis of methionine- and norleucine-derived phosphinopeptides. <i>Tetrahedron Letters</i> , 2008, 49, 5629-5631.	1.4	16
68	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.	2.6	16
69	Insulin Analogues with Modifications at Position B26. Divergence of Binding Affinity and Biological Activity. <i>Biochemistry</i> , 2008, 47, 5858-5868.	2.5	30
70	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.	2.6	13
71	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, 334-341.	1.4	16
72	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, 1549-1559.	2.2	21

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73	Activation of Murine RNase L by Isopolar 2'-Phosphonate Analogues of 5' Oligoadenylates. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3955-3962.	6.4	13
74	S-Alkylated Homocysteine Derivatives: New Inhibitors of Human Betaine-Homocysteine S-Methyltransferase. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3982-3989.	6.4	28
75	Inhibition of Betaine-Homocysteine S-Methyltransferase Causes Hyperhomocysteinemia in Mice. <i>Journal of Nutrition</i> , 2006, 136, 1493-1497.	2.9	51
76	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, 43-49.	2.4	13
77	Determination of pKa values of diastereomers of phosphinic pseudopeptides by CZE. <i>Electrophoresis</i> , 2006, 27, 4648-4657.	2.4	28
78	The role of betaine-homocysteine S-methyltransferase (BHMT) in the regulation of plasma total homocysteine (tHcy). <i>FASEB Journal</i> , 2006, 20, A859.	0.5	0
79	ABEI-labeled 2-5A: A way to chemiluminescent imaging of RNase L binding process. , 2005, , .		0
80	New inhibitors of human betaine-homocysteine S-methyltransferase. , 2005, , .		0
81	Preparation and characterization of two LysB29 specifically labelled fluorescent derivatives of human insulin. <i>Journal of Peptide Science</i> , 2004, 10, 470-478.	1.4	6
82	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, 2323-2331.	2.5	23
83	Dissecting the Catalytic Mechanism of Betaine-Homocysteine S-Methyltransferase by Use of Intrinsic Tryptophan Fluorescence and Site-Directed Mutagenesis. <i>Biochemistry</i> , 2004, 43, 5341-5351.	2.5	31
84	Physicochemical characterization of phosphinic pseudopeptides by capillary zone electrophoresis in highly acidic background electrolytes. <i>Electrophoresis</i> , 2003, 24, 774-781.	2.4	49
85	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.	2.5	16
86	Combining Combinatorial Chemistry and Affinity Chromatography. <i>Chemistry and Biology</i> , 2003, 10, 113-122.	6.0	28
87	Betaine-Homocysteine Methyltransferase. <i>Structure</i> , 2002, 10, 1159-1171.	3.3	113
88	Analysis and characterization of phosphinic pseudopeptides by capillary zone electrophoresis. <i>Electrophoresis</i> , 2002, 23, 215-222.	2.4	20
89	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, 145-154.	2.3	38
90	Side reactions during photochemical cleavage of an α -methyl-6-nitroveratryl-based photolabile linker. <i>Journal of Peptide Science</i> , 2000, 6, 355-365.	1.4	29

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91	Phosphinic Acid Compounds in Biochemistry, Biology and Medicine. <i>Current Medicinal Chemistry</i> , 2000, 7, 629-647.	2.4	186
92	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, 4330-4335.	7.1	168
93	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. <i>Journal of Chromatography A</i> , 1998, 796, 211-220.	3.7	51
94	Examination of the role of endopeptidase 3.4.24.15 in $\text{A}\hat{\text{I}}^2$ secretion by human transfected cells. <i>British Journal of Pharmacology</i> , 1997, 121, 556-562.	5.4	37
95	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, 705-710.	5.4	34
96	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.	3.2	78
97	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, 19606-19611.	3.4	86
98	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, 21701-21706.	3.4	104
99	Semisynthetic Insulin Analogues Modified in Positions B24, B25 and B29. <i>Biological Chemistry Hoppe-Seyler</i> , 1994, 375, 373-378.	1.4	13
100	Purification of Penicillin Amidohydrolase, an Enzyme for Semisynthetic Procedures. <i>Collection of Czechoslovak Chemical Communications</i> , 1992, 57, 2187-2191.	1.0	4
101	Isolation of rabbit insulin. <i>Collection of Czechoslovak Chemical Communications</i> , 1990, 55, 1372-1379.	1.0	0
102	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> , 0, , .	2.6	9