Marko HyvÃ¶nen

List of Publications by Year
in descending order

75 papers	3,769 citations	172457 29 h-index	138484 58 g-index
88 all docs	88 docs citations	88 times ranked	4936 citing authors

#	Article	IF	Citations
1	Development of small cyclic peptides targeting the CK2Î±/Î² interface. Chemical Communications, 2022, , .	4.1	1
2	Poxviruses and paramyxoviruses use a conserved mechanism of STAT1 antagonism to inhibit interferon signaling. Cell Host and Microbe, 2022, 30, 357-372.e11.	11.0	9
3	Unraveling the Mechanics of a Repeat-Protein Nanospring: From Folding of Individual Repeats to Fluctuations of the Superhelix. ACS Nano, 2022, 16, 3895-3905.	14.6	6
4	Anthraquinone derivatives as ADP-competitive inhibitors of liver pyruvate kinase. European Journal of Medicinal Chemistry, 2022, 234, 114270.	5.5	8
5	Divergent binding mode for a protozoan BRC repeat to RAD51. Biochemical Journal, 2022, 479, 1031-1043.	3.7	2
6	Functional metagenomic screening identifies an unexpected Î²-glucuronidase. Nature Chemical Biology, 2022, 18, 1096-1103.	8.0	16
7	Chemical probes targeting the kinase CK2: a journey outside the catalytic box. Organic and Biomolecular Chemistry, 2021, 19, 4380-4396.	2.8	19
8	Combined transcriptomic and phosphoproteomic analysis of BMP4 signaling in human embryonic stem cells. Stem Cell Research, 2021, 50, 102133.	0.7	3
9	Downfalls of Chemical Probes Acting at the Kinase ATP-Site: CK2 as a Case Study. Molecules, 2021, 26, 1977.	3.8	16
10	Supporting data on combined transcriptomic and phosphoproteomic analysis of BMP4 signaling in human embryonic stem cells. Data in Brief, 2021, 35, 106844.	1.0	1
11	Pathogenic ACVR1^{R206H} activation by Activin Aâ€induced receptor clustering and autophosphorylation. EMBO Journal, 2021, 40, e106317.	7.8	24
12	A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. Cell Chemical Biology, 2021, 28, 835-847.e5.	5.2	27
13	Embryonic stem cells are devoid of macropinocytosis, a trafficking pathway for activin A in differentiated cells. Journal of Cell Science, 2021, 134, .	2.0	4
14	The role of pro-domains in human growth factors and cytokines. Biochemical Society Transactions, 2021, 49, 1963-1973.	3.4	2
15	Improved RAD51 binders through motif shuffling based on the modularity of BRC repeats. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
16	Proposed Allosteric Inhibitors Bind to the ATP Site of CK2Î±. Journal of Medicinal Chemistry, 2020, 63, 12786-12798.	6.4	12
17	Demonstration of the utility of DOS-derived fragment libraries for rapid hit derivatisation in a multidirectional fashion. Chemical Science, 2020, 11, 10792-10801.	7.4	11
18	Diarylethene moiety as an enthalpy-entropy switch: photoisomerizable stapled peptides for modulating p53/MDM2 interaction. Organic and Biomolecular Chemistry, 2020, 18, 5359-5369.	2.8	14

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19	Secreted BMP antagonists and their role in cancer and bone metastases. Bone, 2020, 137, 115455.	2.9	16
20	Human BDNF/TrkB variants impair hippocampal synaptogenesis and associate with neurobehavioural abnormalities. Scientific Reports, 2020, 10, 9028.	3.3	40
21	The thrombospondin module 1 domain of the matricellular protein CCN3 shows an atypical disulfide pattern and incomplete CWR layers. Acta Crystallographica Section D: Structural Biology, 2020, 76, 124-134.	2.3	5
22	Genomic structure and transcript analysis of the Rapid Alkalinization Factor (RALF) gene family during host-pathogen crosstalk in Fragaria vesca and Fragaria x ananassa strawberry. PLoS ONE, 2020, 15, e0226448.	2.5	7
23	Title is missing!. , 2020, 15, e0226448.		0
24	Title is missing!. , 2020, 15, e0226448.		0
25	Title is missing!. , 2020, 15, e0226448.		0
26	Title is missing!. , 2020, 15, e0226448.		0
27	Water-soluble, stable and azide-reactive strained dialkynes for biocompatible double strain-promoted click chemistry. Organic and Biomolecular Chemistry, 2019, 17, 8014-8018.	2.8	14
28	A cryptic hydrophobic pocket in the polo-box domain of the polo-like kinase PLK1 regulates substrate recognition and mitotic chromosome segregation. Scientific Reports, 2019, 9, 15930.	3.3	17
29	A general approach for the site-selective modification of native proteins, enabling the generation of stable and functional antibodyâ€“drug conjugates. Chemical Science, 2019, 10, 694-700.	7.4	85
30	Organoid culture media formulated with growth factors of defined cellular activity. Scientific Reports, 2019, 9, 6193.	3.3	42
31	Efficient development of stable and highly functionalised peptides targeting the CK2Î±/CK2Î²2 proteinâ€“protein interaction. Chemical Science, 2019, 10, 5056-5063.	7.4	27
32	Balancing Specificity and Promiscuity in Enzyme Evolution: Multidimensional Activity Transitions in the Alkaline Phosphatase Superfamily. Journal of the American Chemical Society, 2019, 141, 370-387.	13.7	35
33	Second-generation CK2Î± inhibitors targeting the Î±D pocket. Chemical Science, 2018, 9, 3041-3049.	7.4	32
34	Structural and Mechanistic Analysis of the Choline Sulfatase from Sinorhizobium melliloti: A Class I Sulfatase Specific for an Alkyl Sulfate Ester. Journal of Molecular Biology, 2018, 430, 1004-1023.	4.2	18
35	Structure of the human myostatin precursor and determinants of growth factor latency. EMBO Journal, 2018, 37, 367-383.	7.8	58
36	Molecular characterization of latent GDF8 reveals mechanisms of activation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E866-E875.	7.1	30

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37	Evolutionary repurposing of a sulfatase: A new Michaelis complex leads to efficient transition state charge offset. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7293-E7302.	7.1	34
38	Novel non-ATP competitive small molecules targeting the CK2 Î±/Î² interface. Bioorganic and Medicinal Chemistry, 2018, 26, 3016-3020.	3.0	35
39	Twoâ€Component Stapling of Biologically Active and Conformationally Constrained Peptides: Past, Present, and Future. Advanced Therapeutics, 2018, 1, 1800052.	3.2	33
40	Comparing the Solution Conformation and Activinâ€binding of Follistatin Isoforms. FASEB Journal, 2018, 32, 659.5.	0.5	0
41	Macrocyclized Extended Peptides: Inhibiting the Substrate-Recognition Domain of Tankyrase. Journal of the American Chemical Society, 2017, 139, 2245-2256.	13.7	55
42	Development of a multipurpose scaffold for the display of peptide loops. Protein Engineering, Design and Selection, 2017, 30, 419-430.	2.1	12
43	A fragment-based approach leading to the discovery of a novel binding site and the selective CK2 inhibitor CAM4066. Bioorganic and Medicinal Chemistry, 2017, 25, 3471-3482.	3.0	48
44	Structural analyses of von Willebrand factor C domains of collagen 2A and CCN3 reveal an alternative mode of binding to bone morphogenetic protein-2. Journal of Biological Chemistry, 2017, 292, 12516-12527.	3.4	25
45	From a metagenomic source to a high-resolution structure of a novel alkaline esterase. Applied Microbiology and Biotechnology, 2017, 101, 4935-4949.	3.6	31
46	Quantitative Affinity Determination by Fluorescence Anisotropy Measurements of Individual Nanoliter Droplets. Analytical Chemistry, 2017, 89, 1092-1101.	6.5	27
47	Computationally-guided optimization of small-molecule inhibitors of the Aurora A kinaseâ€“TPX2 proteinâ€“protein interaction. Chemical Communications, 2017, 53, 9372-9375.	4.1	15
48	Structure and activation of pro-activin A. Nature Communications, 2016, 7, 12052.	12.8	74
49	Structure of Gremlin-1 and analysis of its interaction with BMP-2. Biochemical Journal, 2016, 473, 1593-1604.	3.7	52
50	Specific inhibition of CK2Î± from an anchor outside the active site. Chemical Science, 2016, 7, 6839-6845.	7.4	55
51	Allosteric modulation of AURKA kinase activity by a small-molecule inhibitor of its protein-protein interaction with TPX2. Scientific Reports, 2016, 6, 28528.	3.3	66
52	Engineering Archeal Surrogate Systems for the Development of Proteinâ€“Protein Interaction Inhibitors against Human RAD51. Journal of Molecular Biology, 2016, 428, 4589-4607.	4.2	13
53	Selective small molecule inhibitor of the Mycobacterium tuberculosis fumarate hydratase reveals an allosteric regulatory site. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7503-7508.	7.1	36
54	Structureâ€activity relationship of the peptide bindingâ€motif mediating the BRCA2:RAD51 proteinâ€“protein interaction. FEBS Letters, 2016, 590, 1094-1102.	2.8	20

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55	ATP halfâ€sites in RadA and RAD51 recombinases bind nucleotides. FEBS Open Bio, 2016, 6, 372-385.	2.3	5
56	Double Strainâ€Promoted Macrocyclization for the Rapid Selection of Cellâ€Active Stapled Peptides. Angewandte Chemie - International Edition, 2015, 54, 15410-15413.	13.8	101
57	Alternative modulation of proteinâ€“protein interactions by small molecules. Current Opinion in Biotechnology, 2015, 35, 78-85.	6.6	80
58	Ultrahigh-throughput discovery of promiscuous enzymes by picodroplet functional metagenomics. Nature Communications, 2015, 6, 10008.	12.8	225
59	Smallâ€Molecule Inhibitors That Target Proteinâ€“Protein Interactions in the RAD51 Family of Recombinases. ChemMedChem, 2015, 10, 296-303.	3.2	36
60	Functionalised staple linkages for modulating the cellular activity of stapled peptides. Chemical Science, 2014, 5, 1804-1809.	7.4	165
61	Using a Fragmentâ€Based Approach To Target Proteinâ€“Protein Interactions. ChemBioChem, 2013, 14, 332-342.	2.6	115
62	From Crystal Packing to Molecular Recognition: Prediction and Discovery of a Binding Site on the Surface of Poloâ€Like Kinase 1. Angewandte Chemie - International Edition, 2011, 50, 4003-4006.	13.8	57
63	An efficient, multiply promiscuous hydrolase in the alkaline phosphatase superfamily. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2740-2745.	7.1	87
64	Rab5-mediated endocytosis of activin is not required for gene activation or long-range signalling inXenopus. Development (Cambridge), 2009, 136, 2803-2813.	2.5	19
65	A new â€˜totalâ€™ activin B enzymeâ€linked immunosorbent assay (ELISA): development and validation for human samples. Clinical Endocrinology, 2009, 71, 867-873.	2.4	38
66	Development of a new antibody to the human inhibin/activin Î²B subunit and its application to improved inhibin B ELISAs. Journal of Immunological Methods, 2008, 329, 102-111.	1.4	18
67	A New Member of the Alkaline Phosphatase Superfamily with a Formylglycine Nucleophile: Structural and Kinetic Characterisation of a Phosphonate Monoester Hydrolase/Phosphodiesterase from Rhizobium leguminosarum. Journal of Molecular Biology, 2008, 384, 120-136.	4.2	65
68	Structural basis for the inhibition of activin signalling by follistatin. EMBO Journal, 2006, 25, 1035-1045.	7.8	141
69	CHRD, a novel domain in the BMP inhibitor chordin, is also found in microbial proteins. Trends in Biochemical Sciences, 2003, 28, 470-473.	7.5	18
70	Crystal Structures of the Heparan Sulfate-binding Domain of Follistatin. Journal of Biological Chemistry, 2003, 278, 39969-39977.	3.4	45
71	Adhesion of Endothelial Cells to NOV Is Mediated by the Integrins Î±vÎ²3 and Î±5Î²1. Journal of Vascular Research, 2003, 40, 234-243.	1.4	32
72	Structure of the PH domain from Bruton's tyrosine kinase in complex with inositol 1,3,4,5-tetrakisphosphate. Structure, 1999, 7, 449-460.	3.3	197

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73	T7 Vectors with a Modified T7lacPromoter for Expression of Proteins inEscherichia coli. Analytical Biochemistry, 1996, 236, 371-373.	2.4	273
74	Structure of the WW domain of a kinase-associated protein complexed with a proline-rich peptide. Nature, 1996, 382, 646-649.	27.8	426
75	PH domain: the first anniversary. Trends in Biochemical Sciences, 1994, 19, 349-353.	7.5	332