

Ondřej Vaněk

List of Publications by Year in descending order

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57
papers

1,261
citations

430874

18
h-index

377865

34
g-index

64
all docs

64
docs citations

64
times ranked

2155
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances on smart glycoconjugate vaccines in infections and cancer. <i>FEBS Journal</i> , 2022, 289, 4251-4303.	4.7	39
2	Natural killer cell-based strategies for immunotherapy of cancer. <i>Advances in Protein Chemistry and Structural Biology</i> , 2022, 129, 91-133.	2.3	6
3	Protein purification strategies must consider downstream applications and individual biological characteristics. <i>Microbial Cell Factories</i> , 2022, 21, 52.	4.0	5
4	Intrinsically disordered protein domain of human ameloblastin in synthetic fusion with calmodulin increases calmodulin stability and modulates its function. <i>International Journal of Biological Macromolecules</i> , 2021, 168, 1-12.	7.5	3
5	Size and nitrogen inhomogeneity in detonation and laser synthesized primary nanodiamond particles revealed via salt-assisted deaggregation. <i>Carbon</i> , 2021, 171, 230-239.	10.3	17
6	Size Effects on Surface Chemistry and Raman Spectra of Sub-5 nm Oxidized High-Pressure High-Temperature and Detonation Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5647-5669.	3.1	25
7	Reproducibility and accuracy of microscale thermophoresis in the NanoTemper Monolith: a multi laboratory benchmark study. <i>European Biophysics Journal</i> , 2021, 50, 411-427.	2.2	13
8	Emerging glyco-based strategies to steer immune responses. <i>FEBS Journal</i> , 2021, 288, 4746-4772.	4.7	22
9	Community-Wide Experimental Evaluation of the PROSS Stability-Design Method. <i>Journal of Molecular Biology</i> , 2021, 433, 166964.	4.2	42
10	The order of PDZ3 and TrpCage in fusion chimeras determines their properties—a biophysical characterization. <i>Protein Science</i> , 2021, 30, 1653-1666.	7.6	1
11	Tumor Marker B7-H6 Bound to the Coiled Coil Peptide-Polymer Conjugate Enables Targeted Therapy by Activating Human Natural Killer Cells. <i>Biomedicines</i> , 2021, 9, 1597.	3.2	2
12	Natural Killer Cell Activation Receptor NKp30 Oligomerization Depends on Its N-Glycosylation. <i>Cancers</i> , 2020, 12, 1998.	3.7	12
13	Phlebotomus perniciosus Recombinant Salivary Proteins Polarize Murine Macrophages Toward the Anti-Inflammatory Phenotype. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 427.	3.9	6
14	Characterization of AMBN I and II Isoforms and Study of Their Ca ²⁺ -Binding Properties. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9293.	4.1	9
15	Molecular Mechanisms of the Interactions of N-(2-Hydroxypropyl)methacrylamide Copolymers Designed for Cancer Therapy with Blood Plasma Proteins. <i>Pharmaceutics</i> , 2020, 12, 106.	4.5	12
16	Amine-binding properties of salivary yellow-related proteins in phlebotomine sand flies. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 115, 103245.	2.7	10
17	Production of recombinant soluble dimeric C-type lectin-like receptors of rat natural killer cells. <i>Scientific Reports</i> , 2019, 9, 17836.	3.3	6
18	Field study of the improved rapid sand fly exposure test in areas endemic for canine leishmaniasis. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007832.	3.0	8

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19	SEC-SAXS analysis of oligomeric states of human NKR-P1 with its ligand LLT1 in solution. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e62-e62.	0.1	0
20	Crystal structure of native <i>N-acetylhexosaminidase</i> isolated from <i>Aspergillus Oryzae</i> sheds light onto its substrate specificity, high stability, and regulation by propeptide. <i>FEBS Journal</i> , 2018, 285, 580-598.	4.7	12
21	Structure of human natural killer cell receptor NKR-P1 in complex with its ligand LLT1. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e225-e225.	0.1	0
22	Ultrathin Nanocrystalline Diamond Films with Silicon Vacancy Color Centers via Seeding by 2 nm Detonation Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38842-38853.	8.0	52
23	High-level expression and purification of soluble form of human natural killer cell receptor NKR-P1 in HEK293S GnT1 ⁺ cells. <i>Protein Expression and Purification</i> , 2017, 140, 36-43.	1.3	7
24	Structural characterization of the heme-based oxygen sensor, <i>AfGCHK</i> , its interactions with the cognate response regulator, and their combined mechanism of action in a bacterial two-component signaling system. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1375-1389.	2.6	18
25	Myristoylation drives dimerization of matrix protein from mouse mammary tumor virus. <i>Retrovirology</i> , 2016, 13, 2.	2.0	6
26	Changes of LLT1, a ligand for human NKR-P1, with varied glycosylation and crystallization conditions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s340-s340.	0.1	0
27	Human LLT1, a ligand for NKR-P1, and its variability under various conditions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s265-s266.	0.1	0
28	Expression and purification of soluble and stable ectodomain of natural killer cell receptor LLT1 through high-density transfection of suspension adapted HEK293S GnT1 ⁺ cells. <i>Protein Expression and Purification</i> , 2015, 109, 7-13.	1.3	18
29	Four crystal structures of human LLT1, a ligand of human NKR-P1, in varied glycosylation and oligomerization states. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 578-591.	2.5	20
30	In vivo characterization of the physicochemical properties of polymer-linked TLR agonists that enhance vaccine immunogenicity. <i>Nature Biotechnology</i> , 2015, 33, 1201-1210.	17.5	362
31	Structural and Functional Studies of Phosphoenolpyruvate Carboxykinase from <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2015, 10, e0120682.	2.5	7
32	High-density transfection is superior for production of readily crystallizable glycoproteins in suspension adapted HEK293S GnT1 ⁺ cells: a case study of human lymphocyte receptor LLT1. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s220-s220.	0.1	0
33	Evaluating the potential of three Fe- and Mn-(nano)oxides for the stabilization of Cd, Cu and Pb in contaminated soils. <i>Journal of Environmental Management</i> , 2014, 146, 226-234.	7.8	70
34	Coiled Coil Peptides and Polymer-Peptide Conjugates: Synthesis, Self-Assembly, Characterization and Potential in Drug Delivery Systems. <i>Biomacromolecules</i> , 2014, 15, 2590-2599.	5.4	36
35	Structure of mouse Clr-g, a CTL ligand for NK receptor NKR-P1F. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C254-C254.	0.1	0
36	Carbohydrate synthesis and biosynthesis technologies for cracking of the glycan code: Recent advances. <i>Biotechnology Advances</i> , 2013, 31, 17-37.	11.7	14

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37	Effect of posttranslational modifications on enzyme function and assembly. <i>Journal of Proteomics</i> , 2013, 92, 80-109.	2.4	93
38	Crystallization of arylacetone nitrilase from <i>Arthoderma benhamie</i> . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s356-s356.	0.3	0
39	Recombinant fungal nitrilases - effect of reduction on their structure and function. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s359-s359.	0.3	0
40	Mouse Clr-g, a Ligand for NK Cell Activation Receptor NKR-P1F: Crystal Structure and Biophysical Properties. <i>Journal of Immunology</i> , 2012, 189, 4881-4889.	0.8	21
41	Facile production of <i>Aspergillus niger</i> Î±-N-acetylgalactosaminidase in yeast. <i>Protein Expression and Purification</i> , 2012, 81, 106-114.	1.3	5
42	Preparation of soluble isotopically labeled NKp30, a human natural cytotoxicity receptor, for structural studies using NMR. <i>Protein Expression and Purification</i> , 2012, 86, 142-150.	1.3	1
43	Structure, electrostatics and complexation of immune receptors and ligands. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, s173-s173.	0.3	0
44	Coiled Coil Peptides as Universal Linkers for the Attachment of Recombinant Proteins to Polymer Therapeutics. <i>Biomacromolecules</i> , 2011, 12, 3645-3655.	5.4	48
45	Molecular architecture of mouse activating NKR-P1 receptors. <i>Journal of Structural Biology</i> , 2011, 175, 434-441.	2.8	34
46	High-level expression of soluble form of mouse natural killer cell receptor NKR-P1C(B6) in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2011, 77, 178-184.	1.3	19
47	Enzymatic characterization and molecular modeling of an evolutionarily interesting fungal Î±-N-acetylhexosaminidase. <i>FEBS Journal</i> , 2011, 278, 2469-2484.	4.7	34
48	Structural analysis of natural killer cell receptor protein 1 (NKR-P1) extracellular domains suggests a conserved long loop region involved in ligand specificity. <i>Journal of Molecular Modeling</i> , 2011, 17, 1353-1370.	1.8	22
49	Heterologous expression, purification and characterization of nitrilase from <i>Aspergillus niger</i> K10. <i>BMC Biotechnology</i> , 2011, 11, 2.	3.3	27
50	Crystallization and diffraction analysis of Î±-N-acetylhexosaminidase from <i>Aspergillus oryzae</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 498-503.	0.7	6
51	Structure of the H107R variant of the extracellular domain of mouse NKR-P1A at 2.3 Å resolution. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1519-1523.	0.7	7
52	Cooperation between Subunits Is Essential for High-Affinity Binding of N-Acetyl-d-hexosamines to Dimeric Soluble and Dimeric Cellular Forms of Human CD69. <i>Biochemistry</i> , 2010, 49, 4060-4067.	2.5	11
53	Synthesis of Multivalent Glycoconjugates Containing the Immunoactive LELTE Peptide: Effect of Glycosylation on Cellular Activation and Natural Killing by Human Peripheral Blood Mononuclear Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 6800-6808.	13.7	17
54	Synthetic N-Acetyl-d-glucosamine Based Fully Branched Tetrasaccharide, a Mimetic of the Endogenous Ligand for CD69, Activates CD69+ Killer Lymphocytes upon Dimerization via a Hydrophilic Flexible Linker. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4050-4065.	6.4	13

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55	The high-resolution structure of the extracellular domain of human CD69 using a novel polymer. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 1258-1260.	0.7	15
56	Soluble recombinant CD69 receptors optimized to have an exceptional physical and chemical stability display prolonged circulation and remain intact in the blood of mice. FEBS Journal, 2008, 275, 5589-5606.	4.7	26
57	Preparation and crystallization of rat natural killer cell receptor NKR-P1B. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, s132-s132.	0.3	0