

Ondřej Vaněk

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Effect of posttranslational modifications on enzyme function and assembly. <i>Journal of Proteomics</i> , 2013, 92, 80-109. | 2.4 | 93 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Community-Wide Experimental Evaluation of the PROSS Stability-Design Method. <i>Journal of Molecular Biology</i> , 2021, 433, 166964. | 4.2 | 42 |
| 7 | Recent advances on smart glycoconjugate vaccines in infections and cancer. <i>FEBS Journal</i> , 2022, 289, 4251-4303. | 4.7 | 39 |
| 8 | Coiled Coil Peptides and Polymerâ€“Peptide Conjugates: Synthesis, Self-Assembly, Characterization and Potential in Drug Delivery Systems. <i>Biomacromolecules</i> , 2014, 15, 2590-2599. | 5.4 | 36 |
| 9 | Molecular architecture of mouse activating NKR-P1 receptors. <i>Journal of Structural Biology</i> , 2011, 175, 434-441. | 2.8 | 34 |
| 10 | Enzymatic characterization and molecular modeling of an evolutionarily interesting fungal Î²- <i>N</i> -acetylhexosaminidase. <i>FEBS Journal</i> , 2011, 278, 2469-2484. | 4.7 | 34 |
| 11 | Heterologous expression, purification and characterization of nitrilase from <i>Aspergillus niger</i> K10. <i>BMC Biotechnology</i> , 2011, 11, 2. | 3.3 | 27 |
| 12 | Soluble recombinant CD69 receptors optimized to have an exceptional physical and chemical stability display prolonged circulation and remain intact in the blood of mice. <i>FEBS Journal</i> , 2008, 275, 5589-5606. | 4.7 | 26 |
| 13 | 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 |
| 14 | 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 |
| 15 | Emerging glycoâ€“based strategies to steer immune responses. <i>FEBS Journal</i> , 2021, 288, 4746-4772. | 4.7 | 22 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Expression and purification of soluble and stable ectodomain of natural killer cell receptor LLT1 through high-density transfection of suspension adapted HEK293S GnTIâ” cells. <i>Protein Expression and Purification</i> , 2015, 109, 7-13. | 1.3 | 18 |
| 20 | Structural characterization of the hemeâ€based oxygen sensor, <i>Af</i> GCHK, its interactions with the cognate response regulator, and their combined mechanism of action in a bacterial twoâ€component signaling system. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1375-1389. | 2.6 | 18 |
| 21 | 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 |
| 22 | 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 |
| 23 | The high-resolution structure of the extracellular domain of human CD69 using a novel polymer. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 1258-1260. | 0.7 | 15 |
| 24 | Carbohydrate synthesis and biosynthesis technologies for cracking of the glycan code: Recent advances. <i>Biotechnology Advances</i> , 2013, 31, 17-37. | 11.7 | 14 |
| 25 | 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 |
| 26 | 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 |
| 27 | Crystal structure of native Î²â€acetylhexosaminidase isolated from <i>Aspergillus Aoryzae</i> sheds light onto its substrate specificity, high stability, and regulation by propeptide. <i>FEBS Journal</i> , 2018, 285, 580-598. | 4.7 | 12 |
| 28 | Natural Killer Cell Activation Receptor NKp30 Oligomerization Depends on Its N-Glycosylation. <i>Cancers</i> , 2020, 12, 1998. | 3.7 | 12 |
| 29 | 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 |
| 30 | Cooperation between Subunits Is Essential for High-Affinity Binding of <i>N</i> -Acetyl-d-hexosamines to Dimeric Soluble and Dimeric Cellular Forms of Human CD69. <i>Biochemistry</i> , 2010, 49, 4060-4067. | 2.5 | 11 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Structure of the H107R variant of the extracellular domain of mouse NKR-P1A at 2.3â€ resolution. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1519-1523. | 0.7 | 7 |
| 35 | High-level expression and purification of soluble form of human natural killer cell receptor NKR-P1 in HEK293S GnTIâ” cells. <i>Protein Expression and Purification</i> , 2017, 140, 36-43. | 1.3 | 7 |
| 36 | Structural and Functional Studies of Phosphoenolpyruvate Carboxykinase from <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2015, 10, e0120682. | 2.5 | 7 |

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|----|---|-----|-----------|
| 37 | Crystallization and diffraction analysis of \hat{I}^2 -N-acetylhexosaminidase from <i>Aspergillus oryzae</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 498-503. | 0.7 | 6 |
| 38 | Myristoylation drives dimerization of matrix protein from mouse mammary tumor virus. <i>Retrovirology</i> , 2016, 13, 2. | 2.0 | 6 |
| 39 | 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 |
| 40 | <i>Phlebotomus perniciosus</i> 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 |
| 41 | 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 |
| 42 | Facile production of <i>Aspergillus niger</i> \hat{I}^{\pm} -N-acetylgalactosaminidase in yeast. <i>Protein Expression and Purification</i> , 2012, 81, 106-114. | 1.3 | 5 |
| 43 | Protein purification strategies must consider downstream applications and individual biological characteristics. <i>Microbial Cell Factories</i> , 2022, 21, 52. | 4.0 | 5 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Preparation and crystallization of rat natural killer cell receptor NKR-P1B. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2007, 63, s132-s132. | 0.3 | 0 |
| 50 | 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 |
| 51 | Crystallization of arylacetonitrilase from <i>Arthoderma benhamie</i> . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s356-s356. | 0.3 | 0 |
| 52 | 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 |
| 53 | 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 |
| 54 | High-density transfection is superior for production of readily crystallizable glycoproteins in suspension adapted HEK293S GnT1 \hat{I} 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 |

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|----|--|-----|-----------|
| 55 | Changes of LLT1, a ligand for human NKR-P1, with varied glycosylation and crystallization conditions. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s340-s340. | 0.1 | 0 |
| 56 | Structure of human natural killer cell receptor NKR-P1 in complex with its ligand LLT1. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e225-e225. | 0.1 | 0 |
| 57 | SEC-SAXS analysis of oligomeric states of human NKR-P1 with its ligand LLT1 in solution. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e62-e62. | 0.1 | 0 |