Pavel Sacha

List of Publications by Year
in descending order

45 papers	1,136 citations	430874 18 h-index	414414 32 g-index
49 all docs	49 docs citations	49 times ranked	1508 citing authors

#	Article	IF	Citations
1	Expression of glutamate carboxypeptidase II in human brain. Neuroscience, 2007, 144, 1361-1372.	2.3	116
2	Substrate specificity, inhibition and enzymological analysis of recombinant human glutamate carboxypeptidase II. Journal of Neurochemistry, 2002, 80, 477-487.	3.9	113
3	MCC950/CRID3 potently targets the NACHT domain of wild-type NLRP3 but not disease-associated mutants for inflammasome inhibition. PLoS Biology, 2019, 17, e3000354.	5.6	94
4	Identification of the N-glycosylation sites on glutamate carboxypeptidase II necessary for proteolytic activity. Protein Science, 2004, 13, 1627-1635.	7.6	93
5	Fluorescent Nanodiamonds Embedded in Biocompatible Translucent Shells. Small, 2014, 10, 1106-1115.	10.0	88
6	Biochemical characterization of human glutamate carboxypeptidase III. Journal of Neurochemistry, 2006, 101, 682-696.	3.9	51
7	Human DNA-Damage-Inducible 2 Protein Is Structurally and Functionally Distinct from Its Yeast Ortholog. Scientific Reports, 2016, 6, 30443.	3.3	46
8	Tissue expression and enzymologic characterization of human prostate specific membrane antigen and its rat and pig orthologs. Prostate, 2008, 68, 171-182.	2.3	42
9	Efficient and versatile one-step affinity purification of in vivo biotinylated proteins: Expression, characterization and structure analysis of recombinant human glutamate carboxypeptidase II. Protein Expression and Purification, 2012, 82, 106-115.	1.3	38
10	Rational design of urea-based glutamate carboxypeptidase II (GCPII) inhibitors as versatile tools for specific drug targeting and delivery. Bioorganic and Medicinal Chemistry, 2014, 22, 4099-4108.	3.0	37
11	Comparative analysis of monoclonal antibodies against prostate-specific membrane antigen (PSMA). Prostate, 2014, 74, 1674-1690.	2.3	35
12	iBodies: Modular Synthetic Antibody Mimetics Based on Hydrophilic Polymers Decorated with Functional Moieties. Angewandte Chemie - International Edition, 2016, 55, 2356-2360.	13.8	31
13	Amino acids at the N- and C-termini of human glutamate carboxypeptidase II are required for enzymatic activity and proper folding. FEBS Journal, 2004, 271, 2782-2790.	0.2	29
14	Design of Highly Potent Urea-Based, Exosite-Binding Inhibitors Selective for Glutamate Carboxypeptidase II. Journal of Medicinal Chemistry, 2015, 58, 4357-4363.	6.4	29
15	Triggering HIV polyprotein processing by light using rapid photodegradation of a tight-binding protease inhibitor. Nature Communications, 2015, 6, 6461.	12.8	25
16	Inhibitorâ€“GCPII Interaction: Selective and Robust System for Targeting Cancer Cells with Structurally Diverse Nanoparticles. Molecular Pharmaceutics, 2018, 15, 2932-2945.	4.6	25
17	Structural and biochemical characterization of the folylâ€polyâ€Î³â€<scp>l</scp>â€glutamate hydrolyzing activity of human glutamate carboxypeptidase <scp>II</scp>. FEBS Journal, 2014, 281, 3228-3242.	4.7	22
18	Inhibitor-Decorated Polymer Conjugates Targeting Fibroblast Activation Protein. Journal of Medicinal Chemistry, 2017, 60, 8385-8393.	6.4	21

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19	Prostateâ€specific membrane antigen and its truncated form PSMâ€². Prostate, 2009, 69, 471-479.	2.3	19
20	Label-free determination of prostate specific membrane antigen in human whole blood at nanomolar levels by magnetically assisted surface enhanced Raman spectroscopy. Analytica Chimica Acta, 2018, 997, 44-51.	5.4	18
21	Mouse glutamate carboxypeptidaseÂ<scp>II</scp> (<scp>GCPII</scp>) has a similar enzyme activity and inhibition profile but a different tissue distribution to human <scp>GCPII</scp>. FEBS Open Bio, 2017, 7, 1362-1378.	2.3	15
22	Detection and quantitation of glutamate carboxypeptidase II in human blood. Prostate, 2014, 74, 768-780.	2.3	14
23	Structural and Biochemical Characterization of a Novel Aminopeptidase from Human Intestine. Journal of Biological Chemistry, 2015, 290, 11321-11336.	3.4	14
24	GCPII Variants, Paralogs and Orthologs. Current Medicinal Chemistry, 2012, 19, 1316-1322.	2.4	13
25	DNA-linked Inhibitor Antibody Assay (DIANA) for sensitive and selective enzyme detection and inhibitor screening. Nucleic Acids Research, 2017, 45, e10-e10.	14.5	11
26	The antifungal effect of peptides from hymenoptera venom and their analogs. Open Life Sciences, 2011, 6, 150-159.	1.4	10
27	Inhibitorâ€“Polymer Conjugates as a Versatile Tool for Detection and Visualization of Cancer-Associated Carbonic Anhydrase Isoforms. ACS Omega, 2019, 4, 6746-6756.	3.5	10
28	Identification of Protein Targets of Bioactive Small Molecules Using Randomly Photomodified Probes. ACS Chemical Biology, 2018, 13, 3333-3342.	3.4	9
29	A New Approach for the Diagnosis of Myelodysplastic Syndrome Subtypes Based on Protein Interaction Analysis. Scientific Reports, 2019, 9, 12647.	3.3	8
30	Tris-(Nitrilotriacetic Acid)-Decorated Polymer Conjugates as Tools for Immobilization and Visualization of His-Tagged Proteins. Catalysts, 2019, 9, 1011.	3.5	6
31	Structure-activity relationship and biochemical evaluation of novel fibroblast activation protein and prolyl endopeptidase inhibitors with Î±-ketoamide warheads. European Journal of Medicinal Chemistry, 2021, 224, 113717.	5.5	6
32	DNA-linked inhibitor antibody assay (DIANA) as a new method for screening influenza neuraminidase inhibitors. Biochemical Journal, 2018, 475, 3847-3860.	3.7	5
33	The efficiency of insulin production and its content in insulin-expressing model Î²-cells correlate with their Zn ²⁺ levels. Open Biology, 2020, 10, 200137.	3.6	5
34	Glutamate carboxypeptidase II does not process amyloidâ€Î²2 peptide. FASEB Journal, 2013, 27, 2626-2632.	0.5	4
35	Increasing the throughput of crystallization condition screens: Challenges and pitfalls of acoustic dispensing systems. MethodsX, 2019, 6, 2230-2236.	1.6	4
36	A novel PSMA/GCPIIâ€deficient mouse model shows enlarged seminal vesicles upon aging. Prostate, 2019, 79, 126-139.	2.3	3

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37	The role of the biotin linker in polymer antibody mimetics, iBodies, in biochemical assays. Polymer Chemistry, 2021, 12, 6009-6021.	3.9	3
38	An iBody-based lateral flow assay for semi-quantitative determination of His-tagged protein concentration. Journal of Immunological Methods, 2019, 473, 112640.	1.4	2
39	Identification of Novel Carbonic Anhydrase IX Inhibitors Using High-Throughput Screening of Pooled Compound Libraries by DNA-Linked Inhibitor Antibody Assay (DIANA). SLAS Discovery, 2020, 25, 1026-1037.	2.7	2
40	The development of a high-affinity conformation-sensitive antibody mimetic using a biocompatible copolymer carrier (iBody). Journal of Biological Chemistry, 2021, 297, 101342.	3.4	2
41	Protein Carbonylation in Patients with Myelodysplastic Syndromes. Blood, 2015, 126, 5232-5232.	1.4	1
42	The Potential Prognostic Markers for Myelodysplatic Syndromes Studied By Surface Plasmon Resonance Imaging and Mass Spectrometry. Blood, 2016, 128, 5510-5510.	1.4	1
43	iBodies: Modular Synthetic Antibody Mimetics Based on Hydrophilic Polymers Decorated with Functional Moieties. Angewandte Chemie, 2016, 128, 2402-2406.	2.0	0
44	Measurable Amount of Active Thrombin Is Bound to Circulating D-Dimers. Is There Any Impact on Diagnosis and Pathophysiology of Thrombosis?. Blood, 2016, 128, 2570-2570.	1.4	0
45	The 70-KDa Heat Shock Protein Surface Plasmon Resonance Biosensor for Examination of Blood Plasma Proteome in Myelodysplastic Syndromes Subgroups. Blood, 2016, 128, 5521-5521.	1.4	0