

Rudolf Karch

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

509
citations

933264

10
h-index

677027

22
g-index

26
all docs

26
docs citations

26
times ranked

697
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacoresistance in Epilepsy: A Pilot PET Study with the P-Glycoprotein Substrate R-[¹¹ C]verapamil. <i>Epilepsia</i> , 2007, 48, 1774-1784.	2.6	119
2	Approaching Complete Inhibition of P-Glycoprotein at the Human Blood–Brain Barrier: An [¹¹ C]Verapamil PET Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 743-746.	2.4	74
3	The spatial pattern of coronary capillaries in patients with dilated, ischemic, or inflammatory cardiomyopathy. <i>Cardiovascular Pathology</i> , 2005, 14, 135-144.	0.7	56
4	Impact of P-Glycoprotein Function on the Brain Kinetics of the Weak Substrate [¹¹ C]-Metoclopramide Assessed with PET Imaging in Humans. <i>Journal of Nuclear Medicine</i> , 2019, 60, 985-991.	2.8	38
5	In vivo P-glycoprotein function before and after epilepsy surgery. <i>Neurology</i> , 2014, 83, 1326-1331.	1.5	37
6	Combined PET and microdialysis for in vivo assessment of intracellular drug pharmacokinetics in humans. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1835-41.	2.8	35
7	Effect of P-glycoprotein inhibition at the blood–brain barrier on brain distribution of [¹¹ C]verapamil in elderly vs. young subjects. <i>British Journal of Clinical Pharmacology</i> , 2017, 83, 1991-1999.	1.1	28
8	A Proof-of-Concept Study to Inhibit ABCG2- and ABCB1-Mediated Efflux Transport at the Human Blood–Brain Barrier. <i>Journal of Nuclear Medicine</i> , 2019, 60, 486-491.	2.8	25
9	Assessment of P-Glycoprotein Transport Activity at the Human Blood–Retina Barrier with [¹¹ C]-Verapamil PET. <i>Journal of Nuclear Medicine</i> , 2017, 58, 678-681.	2.8	23
10	Towards Improved Pharmacokinetic Models for the Analysis of Transporter-Mediated Hepatic Disposition of Drug Molecules with Positron Emission Tomography. <i>AAPS Journal</i> , 2019, 21, 61.	2.2	14
11	The role of the nAChR subunits $\alpha 5$, $\alpha 2$, and $\alpha 4$ on synaptic transmission in the mouse superior cervical ganglion. <i>Physiological Reports</i> , 2019, 7, e14023.	0.7	8
12	Influence of ABC transporters on the excretion of ciprofloxacin assessed with PET imaging in mice. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 163, 105854.	1.9	7
13	Intramolecular Domain Movements of Free and Bound pMHC and TCR Proteins: A Molecular Dynamics Simulation Study. <i>Cells</i> , 2019, 8, 720.	1.8	6
14	Safety, tolerability, pharmacokinetics and pharmacodynamics of parenterally administered dutogliptin: A prospective dose-escalating trial. <i>British Journal of Clinical Pharmacology</i> , 2020, 86, 979-990.	1.1	6
15	ABCB1 and ABCG2 Together Limit the Distribution of ABCB1/ABCG2 Substrates to the Human Retina and the ABCG2 Single Nucleotide Polymorphism Q141K (c.421C>A) May Lead to Increased Drug Exposure. <i>Frontiers in Pharmacology</i> , 2021, 12, 698966.	1.6	6
16	A Prediction Method for P-glycoprotein-Mediated Drug–Drug Interactions at the Human Blood–Brain Barrier From Blood Concentration–Time Profiles, Validated With PET Data. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 2780-2786.	1.6	4
17	Geometry Dynamics of α -Helices in Different Class I Major Histocompatibility Complexes. <i>Journal of Immunology Research</i> , 2015, 2015, 1-20.	0.9	3
18	Spatiotemporal multistage consensus clustering in molecular dynamics studies of large proteins. <i>Molecular BioSystems</i> , 2016, 12, 1600-1614.	2.9	3

#	ARTICLE	IF	CITATIONS
19	Decision theory for precision therapy of breast cancer. Scientific Reports, 2021, 11, 4233.	1.6	3
20	Long-Term Molecular Dynamics Simulations Reveal Flexibility Properties of a Free and TCR-Bound pMHC-I System. , 2020, , .		3
21	Methods from the Theory of Random Heterogeneous Media for Quantifying Myocardial Morphology in Normal and Dilated Hearts. Annals of Biomedical Engineering, 2010, 38, 308-318.	1.3	2
22	Geometric Analysis of Alloreactive HLA<i>±</i>-Helices. BioMed Research International, 2014, 2014, 1-8.	0.9	2
23	Relative Movements of Domains in Large Molecules of the Immune System. Journal of Immunology Research, 2015, 2015, 1-10.	0.9	2
24	Assessment of brain delivery of a model ABCB1/ABCG2 substrate in patients with non-contrast-enhancing brain tumors with positron emission tomography. EJNMMI Research, 2019, 9, 110.	1.1	2
25	The Monoclonal Antibody Pembrolizumab Alters Dynamics of the Human Programmed Cell Death Receptor 1 (PD-1). , 2021, , .		2
26	Decision Theory versus Conventional Statistics for Personalized Therapy of Breast Cancer. Journal of Personalized Medicine, 2022, 12, 570.	1.1	1