

# Klara Valko

## List of Publications by Year in descending order

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65  
papers

3,703  
citations

230014

27  
h-index

145109

60  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3415  
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of biomimetic chromatography to predict acute aquatic toxicity of pharmaceutical compounds. <i>Toxicological and Environmental Chemistry</i> , 2022, 104, 1-19.	0.6	6
2	Phenyl Bis-Sulfonamide Keap1-Nrf2 Protein-Protein Interaction Inhibitors with an Alternative Binding Mode. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 7380-7398.	2.9	14
3	Prediction of hERG inhibition of drug discovery compounds using biomimetic HPLC measurements. <i>ADMET and DMPK</i> , 2021, 9, 191-207.	1.1	4
4	Biomimetic properties and estimated in vivo distribution of chloroquine and hydroxy-chloroquine enantiomers. <i>ADMET and DMPK</i> , 2021, 9, 151-165.	1.1	0
5	Revisiting the application of Immobilized Artificial Membrane (IAM) chromatography to estimate in vivo distribution properties of drug discovery compounds based on the model of marketed drugs. <i>ADMET and DMPK</i> , 2020, 8, 78-97.	1.1	7
6	Amyotrophic lateral sclerosis. <i>Progress in Medicinal Chemistry</i> , 2019, 58, 63-117.	4.1	39
7	Supreme activity of gramicidin S against resistant, persistent and biofilm cells of staphylococci and enterococci. <i>Scientific Reports</i> , 2019, 9, 17938.	1.6	30
8	Synthesis and characterization of amino acid substituted sunitinib analogues for the treatment of AML. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2391-2398.	1.0	6
9	How to identify and eliminate compounds with a risk of high clinical dose during the early phase of lead optimisation in drug discovery. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 110, 37-50.	1.9	14
10	Direct Measurement of Intracellular Compound Concentration by RapidFire Mass Spectrometry Offers Insights into Cell Permeability. <i>Journal of Biomolecular Screening</i> , 2016, 21, 156-164.	2.6	54
11	Interrogating the relationship between rat in vivo tissue distribution and drug property data for >200 structurally unrelated molecules. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00173.	1.1	28
12	Improving the passive permeability of macrocyclic peptides: Balancing permeability with other physicochemical properties. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 322-327.	1.4	59
13	The Discovery of in Vivo Active Mitochondrial Branched-Chain Aminotransferase (BCATm) Inhibitors by Hybridizing Fragment and HTS Hits. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 7140-7163.	2.9	29
14	Predictive approaches to increase absorption of compounds during lead optimisation. <i>Expert Opinion on Drug Discovery</i> , 2013, 8, 1225-1238.	2.5	13
15	In Vitro Measurement of Drug Efficiency Index to Aid Early Lead Optimization. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 4155-4169.	1.6	30
16	Physicochemical profile of macrolides and their comparison with small molecules. <i>European Journal of Medicinal Chemistry</i> , 2012, 47, 462-472.	2.6	33
17	Application of drug efficiency index in drug discovery: a strategy towards low therapeutic dose. <i>Expert Opinion on Drug Discovery</i> , 2011, 6, 913-920.	2.5	21
18	Modeling Cellular Pharmacokinetics of 14- and 15-Membered Macrolides with Physicochemical Properties. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 719-733.	2.9	40

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19	RPTLC determination of logP <sub>o/w</sub> structurally diverse neutral compounds. <i>Journal of Planar Chromatography - Modern TLC</i> , 2008, 21, 143-149.	0.6	13
20	Estimation of Volume of Distribution in Humans from High Throughput HPLC-Based Measurements of Human Serum Albumin Binding and Immobilized Artificial Membrane Partitioning. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6958-6971.	2.9	90
21	High-Throughput Physicochemical and In Vitro ADMET Screening. <i>American Journal of Drug Delivery</i> , 2005, 3, 83-100.	0.6	19
22	Application of high-performance liquid chromatography based measurements of lipophilicity to model biological distribution. <i>Journal of Chromatography A</i> , 2004, 1037, 299-310.	1.8	343
23	Fast Gradient HPLC Method to Determine Compounds Binding to Human Serum Albumin. Relationships with Octanol/Water and Immobilized Artificial Membrane Lipophilicity. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 2236-2248.	1.6	270
24	Calculation of Abraham descriptors from experimental data from seven HPLC systems; evaluation of five different methods of calculation. Electronic supplementary information (ESI) available: Tables S1 to S5. See <a href="http://www.rsc.org/suppdata/p2/b2/b206927j/">http://www.rsc.org/suppdata/p2/b2/b206927j/</a> . <i>Perkin Transactions II RSC</i> , 2002, , 2001-2010.	1.1	94
25	Change of mobile phase pH during gradient reversed-phase chromatography with 2,2,2-trifluoroethanol/water as mobile phase and its effect on the chromatographic hydrophobicity index determination. <i>Journal of Chromatography A</i> , 2002, 954, 77-87.	1.8	24
26	Lipophilicity and pK <sub>a</sub> estimates from gradient high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2002, 965, 117-127.	1.8	98
27	Retention of Ionizable Compounds on HPLC. 8. Influence of Mobile-Phase pH Change on the Chromatographic Retention of Acids and Bases during Gradient Elution. <i>Analytical Chemistry</i> , 2001, 73, 4937-4945.	3.2	80
28	Rapid Method for the Estimation of Octanol / Water Partition Coefficient (Log P <sub>o/w</sub> ) from Gradient RP-HPLC Retention and a Hydrogen Bond Acidity Term (Sigma alpha <sub>2H</sub> ). <i>Current Medicinal Chemistry</i> , 2001, 8, 1137-1146.	1.2	148
29	RAPID METHOD FOR ESTIMATING OCTANOL-WATER PARTITION COEFFICIENT (LOG P <sub>o/w</sub> ) FROM ISOCRATIC RP-HPLC AND A HYDROGEN BOND ACIDITY TERM (A). <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001, 24, 635-649.	0.5	33
30	Chapter 12 Measurements of physical properties for drug design in industry. <i>Handbook of Analytical Separations</i> , 2000, 1, 535-583.	0.8	6
31	Rapid Gradient HPLC Method for Measuring Drug Interactions with Immobilized Artificial Membrane: Comparison with Other Lipophilicity Measures. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 1085-1096.	1.6	135
32	Characterizing the Selectivity of Stationary Phases and Organic Modifiers in Reversed-Phase High-Performance Liquid Chromatographic Systems by a General Solvation Equation Using Gradient Elution. <i>Journal of Chromatographic Science</i> , 2000, 38, 503-511.	0.7	65
33	Rapid Gradient HPLC method for measuring drug interactions with immobilized artificial membrane: Comparison with other lipophilicity measures. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 1085-1096.	1.6	7
34	Detection of the principal synthetic route indicative impurity in Lamotrigine. <i>International Journal of Pharmaceutics</i> , 1999, 189, 241-248.	2.6	7
35	Rapid Gradient RP-HPLC Method for Lipophilicity Determination: A Solvation Equation Based Comparison with Isocratic Methods. <i>Analytical Chemistry</i> , 1998, 70, 4228-4234.	3.2	126
36	Determination of solute descriptors of tripeptide derivatives based on high-throughput gradient high-performance liquid chromatography retention data. <i>Journal of Chromatography A</i> , 1998, 803, 51-60.	1.8	44

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37	Chromatographic Hydrophobicity Index by Fast-Gradient RP-HPLC: A High-Throughput Alternative to log P/log D. <i>Analytical Chemistry</i> , 1997, 69, 2022-2029.	3.2	402
38	Effect of the eluent pH on the thermospray molecular ion intensity of nucleosides. <i>Journal of Chromatography A</i> , 1996, 734, 271-276.	1.8	4
39	Trace analysis of impurities in 3-azido-2-deoxythymidine by reversed-phase high-performance liquid chromatography and thermospray mass spectrometry. <i>Journal of Chromatography A</i> , 1995, 689, 31-38.	1.8	10
40	Chapter 2 Retention prediction of pharmaceutical compounds. <i>Journal of Chromatography Library</i> , 1995, 57, 47-92.	0.1	4
41	Nitric oxide effects on polyamine pathways in cultured hepatocytes. <i>Biochemical Society Transactions</i> , 1994, 22, 295S-295S.	1.6	3
42	New chromatographic hydrophobicity index ( $\log k'$ ) based on the slope and the intercept of the log $k'$ versus organic phase concentration plot. <i>Journal of Chromatography A</i> , 1993, 631, 49-61.	1.8	155
43	Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs. <i>Journal of Chromatography A</i> , 1993, 631, 207-213.	1.8	10
44	Retention in reversed-phase liquid chromatography as a function of mobile-phase composition. <i>Journal of Chromatography A</i> , 1993, 656, 501-520.	1.8	230
45	A comparative study of the reversed-phase HPLC retention behaviour of S-adenosyl-L-methionine and its related metabolites on Hypersil ODS and Supelcosil, LC-ABZ stationary phases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1993, 11, 361-366.	1.4	7
46	Chromatographic separation and molecular modelling of triazines with respect to their inhibition of the growth of L1210/R71 cells. <i>Journal of Chromatography A</i> , 1992, 592, 59-63.	1.8	8
47	Lipidic peptides. XI. Quantitative structure-activity relationships of a series of lipidic amino acid conjugates of $\beta$ -lactam antibiotics. <i>International Journal of Pharmaceutics</i> , 1992, 83, 123-130.	2.6	4
48	Retention behaviour of some ring-substituted phenol derivatives on a porous graphitized carbon column. <i>Journal of Chromatography A</i> , 1992, 592, 75-83.	1.8	30
49	Relationships between the reversed-phase liquid chromatographic retention characteristics and physico-chemical parameters of some $\beta$ -casomorphin peptides. <i>Analytica Chimica Acta</i> , 1992, 268, 247-254.	2.6	7
50	Interaction of Diquat and Paraquat with Glutathione Studied by Means of Charge-Transfer Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1991, 14, 3657-3671.	0.9	3
51	Molecular Modeling for Mobile Phase Optimization in RP-HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1991, 14, 3167-3179.	0.9	5
52	Relationships between nucleotide incorporation rates and molecular parameters obtained by molecular modelling and chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1991, 9, 1125-1131.	1.4	2
53	Retention of some ethylenediamine oligomers in reversed-phase chromatography. <i>Journal of Chromatography A</i> , 1991, 553, 407-414.	1.8	5
54	Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach. <i>Journal of Chromatography A</i> , 1991, 550, 87-100.	1.8	22

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55	Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1991, 550, 667-675.	1.8	4
56	Prediction of the high-performance liquid chromatographic retention behaviour of some benzodiazepine derivatives by thin-layer chromatography. <i>Journal of Chromatography A</i> , 1990, 499, 361-371.	1.8	29
57	Relationship between the hydrophobic and hydrophilic molecular parameters of some synthetic nucleosides, determined by means of adsorptive and reversed-phase thin-layer chromatography. <i>Journal of Proteomics</i> , 1990, 20, 81-95.	2.4	8
58	Multivariate Methods to Evaluate the Role of Mixed Supports in Reversed-Phase Thin-Layer Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1989, 12, 957-978.	0.9	6
59	RP-HPLC Retention Data for Measuring Structural Similarity of Compounds for QSAR Studies. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1987, 10, 1663-1686.	0.9	32
60	Displacement chromatography of oligomycins. <i>Journal of Chromatography A</i> , 1987, 386, 345-351.	1.8	17
61	The role of chromatography in drug design. <i>TrAC - Trends in Analytical Chemistry</i> , 1987, 6, 214-219.	5.8	27
62	Microwave extraction. <i>Journal of Chromatography A</i> , 1986, 371, 299-306.	1.8	481
63	General Approach for the Estimation of Octanol/Water Partition Coefficient by Reversed-Phase High-Performance Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1984, 7, 1405-1424.	0.9	138
64	Structure-activity relationships in a series of new antifungal nitroalcohol derivatives. <i>Pest Management Science</i> , 1983, 14, 513-520.	0.7	16
65	Assessment of quantitative relationships between Kovacs' retention index and chemical structure: prediction for pyrido-pyrimidine derivatives. <i>Journal of Chromatography A</i> , 1980, 202, 122-126.	1.8	5