Klara Valko

List of Publications by Year
in descending order

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65	3,703	201658	128286
papers	citations	27 h-index	60 g-index

66	66	66	3131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The use of biomimetic chromatography to predict acute aquatic toxicity of pharmaceutical compounds. Toxicological and Environmental Chemistry, 2022, 104, 1-19.	1.2	6
2	Phenyl Bis-Sulfonamide Keap1-Nrf2 Proteinâ€“Protein Interaction Inhibitors with an Alternative Binding Mode. Journal of Medicinal Chemistry, 2022, 65, 7380-7398.	6.4	14
3	Prediction of hERG inhibition of drug discovery compounds using biomimetic HPLC measurements. ADMET and DMPK, 2021, 9, 191-207.	2.1	4
4	Biomimetic properties and estimated in vivo distribution of chloroquine and hydroxy-chloroquine enantiomers. ADMET and DMPK, 2021, 9, 151-165.	2.1	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. ADMET and DMPK, 2020, 8, 78-97.	2.1	7
6	Amyotrophic lateral sclerosis. Progress in Medicinal Chemistry, 2019, 58, 63-117.	10.4	39
7	Supreme activity of gramicidin S against resistant, persistent and biofilm cells of staphylococci and enterococci. Scientific Reports, 2019, 9, 17938.	3.3	30
8	Synthesis and characterization of amino acid substituted sunitinib analogues for the treatment of AML. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2391-2398.	2.2	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. European Journal of Pharmaceutical Sciences, 2017, 110, 37-50.	4.0	14
10	Direct Measurement of Intracellular Compound Concentration by RapidFire Mass Spectrometry Offers Insights into Cell Permeability. Journal of Biomolecular Screening, 2016, 21, 156-164.	2.6	54
11	Interrogating the relationship between rat inÂvivo tissue distribution and drug property data for >200 structurally unrelated molecules. Pharmacology Research and Perspectives, 2015, 3, e00173.	2.4	28
12	Improving the passive permeability of macrocyclic peptides: Balancing permeability with other physicochemical properties. Bioorganic and Medicinal Chemistry, 2015, 23, 322-327.	3.0	59
13	The Discovery of in Vivo Active Mitochondrial Branched-Chain Aminotransferase (BCATm) Inhibitors by Hybridizing Fragment and HTS Hits. Journal of Medicinal Chemistry, 2015, 58, 7140-7163.	6.4	29
14	Predictive approaches to increase absorption of compounds during lead optimisation. Expert Opinion on Drug Discovery, 2013, 8, 1225-1238.	5.0	13
15	In Vitro Measurement of Drug Efficiency Index to Aid Early Lead Optimization. Journal of Pharmaceutical Sciences, 2012, 101, 4155-4169.	3.3	30
16	Physicochemical profile of macrolides and their comparison with small molecules. European Journal of Medicinal Chemistry, 2012, 47, 462-472.	5.5	33
17	Application of drug efficiency index in drug discovery: a strategy towards low therapeutic dose. Expert Opinion on Drug Discovery, 2011, 6, 913-920.	5.0	21
18	Modeling Cellular Pharmacokinetics of 14- and 15-Membered Macrolides with Physicochemical Properties. Journal of Medicinal Chemistry, 2011, 54, 719-733.	6.4	40

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19	RPTLC determination of logPof structurally diverse neutral compounds. Journal of Planar Chromatography - Modern TLC, 2008, 21, 143-149.	1.2	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. Journal of Medicinal Chemistry, 2006, 49, 6958-6971.	6.4	90
21	High-Throughput Physicochemical and In Vitro ADMET Screening. American Journal of Drug Delivery, 2005, 3, 83-100.	0.6	19
22	Application of high-performance liquid chromatography based measurements of lipophilicity to model biological distribution. Journal of Chromatography A, 2004, 1037, 299-310.	3.7	343
23	Fast Gradient HPLC Method to Determine Compounds Binding to Human Serum Albumin. Relationships with Octanol/Water and Immobilized Artificial Membrane Lipophilicity. Journal of Pharmaceutical Sciences, 2003, 92, 2236-2248.	3.3	270
24	Calculation of Abraham descriptors from experimental data from seven HPLC systems; evaluation of five different methods of calculationElectronic supplementary information (ESI) available: Tables S1 to S5. See http://www.rsc.org/suppdata/p2/b2/b206927j/. Perkin Transactions II RSC, 2002, , 2001-2010.	1.1	94
25	Change of mobile phase pH during gradient reversed-phase chromatography with 2,2,2-trifluoroethanolâ€“water as mobile phase and its effect on the chromatographic hydrophobicity index determination. Journal of Chromatography A, 2002, 954, 77-87.	3.7	24
26	Lipophilicity and pKa estimates from gradient high-performance liquid chromatography. Journal of Chromatography A, 2002, 965, 117-127.	3.7	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. Analytical Chemistry, 2001, 73, 4937-4945.	6.5	80
28	Rapid Method for the Estimation of Octanol / Water Partition Coefficient (Log Poct) from Gradient RP-HPLC Retention and a Hydrogen Bond Acidity Term (Sigma alpha2H). Current Medicinal Chemistry, 2001, 8, 1137-1146.	2.4	148
29	RAPID METHOD FOR ESTIMATING OCTANOL-WATER PARTITION COEFFICIENT (LOG POCT) FROM ISOCRATIC RP-HPLC AND A HYDROGEN BOND ACIDITY TERM (A). Journal of Liquid Chromatography and Related Technologies, 2001, 24, 635-649.	1.0	33
30	Chapter 12 Measurements of physical properties for drug design in industry. Handbook of Analytical Separations, 2000, 1, 535-583.	0.8	6
31	Rapidâ€Gradient HPLC Method for Measuring Drug Interactions with Immobilized Artificial Membrane: Comparison with Other Lipophilicity Measures. Journal of Pharmaceutical Sciences, 2000, 89, 1085-1096.	3.3	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. Journal of Chromatographic Science, 2000, 38, 503-511.	1.4	65
33	Rapidâ€gradient HPLC method for measuring drug interactions with immobilized artificial membrane: Comparison with other lipophilicity measures. Journal of Pharmaceutical Sciences, 2000, 89, 1085-1096.	3.3	7
34	Detection of the principal synthetic route indicative impurity in Lamotrigine. International Journal of Pharmaceutics, 1999, 189, 241-248.	5.2	7
35	Rapid Gradient RP-HPLC Method for Lipophilicity Determination:â€‰ A Solvation Equation Based Comparison with Isocratic Methods. Analytical Chemistry, 1998, 70, 4228-4234.	6.5	126
36	Determination of solute descriptors of tripeptide derivatives based on high-throughput gradient high-performance liquid chromatography retention data. Journal of Chromatography A, 1998, 803, 51-60.	3.7	44

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37	Chromatographic Hydrophobicity Index by Fast-Gradient RP-HPLC:Â A High-Throughput Alternative to log P/log D. Analytical Chemistry, 1997, 69, 2022-2029.	6.5	402
38	Effect of the eluent pH on the thermospray molecular ion intensity of nucleosides. Journal of Chromatography A, 1996, 734, 271-276.	3.7	4
39	Trace analysis of impurities in 3â€²-azido-3â€²-deoxythymidine by reversed-phase high-performance liquid chromatography and thermospray mass spectrometry. Journal of Chromatography A, 1995, 689, 31-38.	3.7	10
40	Chapter 2 Retention prediction of pharmaceutical compounds. Journal of Chromatography Library, 1995, 57, 47-92.	0.1	4
41	Nitric oxide effects on polyamine pathways in cultured hepatocytes. Biochemical Society Transactions, 1994, 22, 295S-295S.	3.4	3
42	New chromatographic hydrophobicity index (Ï•0) based on the slope and the intercept of the log kâ€² versus organic phase concentration plot. Journal of Chromatography A, 1993, 631, 49-61.	3.7	155
43	Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs. Journal of Chromatography A, 1993, 631, 207-213.	3.7	10
44	Retention in reversed-phase liquid chromatography as a function of mobile-phase composition. Journal of Chromatography A, 1993, 656, 501-520.	3.7	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 Supelcosilâ„¢ LC-ABZ stationary phases. Journal of Pharmaceutical and Biomedical Analysis, 1993, 11, 361-366.	2.8	7
46	Chromatographic separation and molecular modelling of triazines with respect to their inhibition of the growth of L1210/R71 cells. Journal of Chromatography A, 1992, 592, 59-63.	3.7	8
47	Lipidic peptides. XI. Quantitative structure-activity relationships of a series of lipidic amino acid conjugates of Î²-lactam antibiotics. International Journal of Pharmaceutics, 1992, 83, 123-130.	5.2	4
48	Retention behaviour of some ring-substituted phenol derivatives on a porous graphitized carbon column. Journal of Chromatography A, 1992, 592, 75-83.	3.7	30
49	Relationships between the reversed-phase liquid chromatographic retention characteristics and physico-chemical parameters of some Î²-casomorphin peptides. Analytica Chimica Acta, 1992, 268, 247-254.	5.4	7
50	Interaction of Diquat and Paraquat with Glutathione Studied by Means of Charge-Transfer Chromatography. Journal of Liquid Chromatography and Related Technologies, 1991, 14, 3657-3671.	1.0	3
51	Molecular Modeling for Mobile Phase Optimization in RP-HPLC. Journal of Liquid Chromatography and Related Technologies, 1991, 14, 3167-3179.	1.0	5
52	Relationships between nucleotide incorporation rates and molecular parameters obtained by molecular modelling and chromatography. Journal of Pharmaceutical and Biomedical Analysis, 1991, 9, 1125-1131.	2.8	2
53	Retention of some ethylenediamine oligomers in reversed-phase chromatography. Journal of Chromatography A, 1991, 553, 407-414.	3.7	5
54	Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach. Journal of Chromatography A, 1991, 550, 87-100.	3.7	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. Journal of Chromatography A, 1991, 550, 667-675.	3.7	4
56	Prediction of the high-performance liquid chromatographic retention behaviour of some benzodiazepine derivatives by thin-layer chromatography. Journal of Chromatography A, 1990, 499, 361-371.	3.7	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. Journal of Proteomics, 1990, 20, 81-95.	2.4	8
58	Multivariate Methods to Evaluate the Role of Mixed Supports in Reversed-Phase Thin-Layer Chromatography. Journal of Liquid Chromatography and Related Technologies, 1989, 12, 957-978.	1.0	6
59	RP-HPLC Retention Data for Measuring Structural Similarity of Compounds for QSAR Studies. Journal of Liquid Chromatography and Related Technologies, 1987, 10, 1663-1686.	1.0	32
60	Displacement chromatography of oligomycins. Journal of Chromatography A, 1987, 386, 345-351.	3.7	17
61	The role of chromatography in drug design. TrAC - Trends in Analytical Chemistry, 1987, 6, 214-219.	11.4	27
62	Microwave extraction. Journal of Chromatography A, 1986, 371, 299-306.	3.7	481
63	General Approach for the Estimation of Octanol/Water Partition Coefficient by Reversed-Phase High-Performance Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1984, 7, 1405-1424.	1.0	138
64	Structure-activity relationships in a series of new antifungal nitroalcohol derivatives. Pest Management Science, 1983, 14, 513-520.	0.4	16
65	Assessment of quantitative relationships between KovÃ¡ts' retention index and chemical structure: prediction for pyrido-pyrimidine derivatives. Journal of Chromatography A, 1980, 202, 122-126.	3.7	5