Roman Kaliszan

List of Publications by Year
in descending order

184 papers	7,436 citations	44042 48 h-index	69214 77 g-index
190 all docs	190 docs citations	190 times ranked	5123 citing authors

#	Article	IF	Citations
1	QSRR:â€‰ Quantitative Structure-(Chromatographic) Retention Relationships. Chemical Reviews, 2007, 107, 3212-3246.	23.0	423
2	Metabolomics for laboratory diagnostics. Journal of Pharmaceutical and Biomedical Analysis, 2015, 113, 108-120.	1.4	286
3	Theory of solvent disturbance peaks and experimentaldetermination of thermodynamic dead-volume in column liquid chromatography. Journal of Chromatography A, 1985, 349, 211-234.	1.8	203
4	Quantitative structure-retention relationships applied to reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1993, 656, 417-435.	1.8	195
5	Molecular mechanism of retention in reversed-phase high-performance liquid chromatography and classification of modern stationary phases by using quantitative structureâ€"retention relationships. Journal of Chromatography A, 1999, 855, 455-486.	1.8	193
6	Column Characterization and Selection Systems in Reversed-Phase High-Performance Liquid Chromatography. Chemical Reviews, 2019, 119, 3674-3729.	23.0	191
7	Suppression of deleterious effects of free silanols in liquid chromatography by imidazolium tetrafluoroborate ionic liquids. Journal of Chromatography A, 2004, 1030, 263-271.	1.8	159
8	Determination of solute lipophilicity, as log P(octanol) and log P(alkane) using poly(styreneâ€"divinylbenzene) and immobilised artificial membrane stationary phases in reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1997, 766, 35-47.	1.8	156
9	Chromatographic Retention Parameters in Medicinal Chemistry and Molecular Pharmacology. Current Medicinal Chemistry, 2003, 10, 381-426.	1.2	151
10	Chromatography in studies of quantitative structure-activity relationships. Journal of Chromatography A, 1981, 220, 71-83.	1.8	127
11	QUANTITATIVE STRUCTURE-RETENTION RELATIONSHIPS. Analytical Chemistry, 1992, 64, 619A-631A.	3.2	109
12	Comparative characteristics of HPLC columns based on quantitative structureâ€"retention relationships (QSRR) and hydrophobic-subtraction model. Journal of Chromatography A, 2005, 1075, 109-115.	1.8	108
13	Chemically Bonded Silica Stationary Phases:Â Synthesis, Physicochemical Characterization, and Molecular Mechanism of Reversed-Phase HPLC Retention. Analytical Chemistry, 1997, 69, 3277-3284.	3.2	100
14	Prediction of Peptide Retention at Different HPLC Conditions from Multiple Linear Regression Models. Journal of Proteome Research, 2005, 4, 555-563.	1.8	100
15	Application of Ionic Liquids in Liquid Chromatography. Critical Reviews in Analytical Chemistry, 2007, 37, 127-140.	1.8	99
16	Lipophilicity and pKa estimates from gradient high-performance liquid chromatography. Journal of Chromatography A, 2002, 965, 117-127.	1.8	98
17	Urine metabolic fingerprinting using LCâ€"MS and GCâ€"MS reveals metabolite changes in prostate cancer: A pilot study. Journal of Pharmaceutical and Biomedical Analysis, 2015, 111, 351-361.	1.4	96
18	Electrochemical impedance spectroscopy for study of amyloid Î²-peptide interactions with (âˆ') nicotine ditartrate and (âˆ') cotinine. Biosensors and Bioelectronics, 2007, 22, 1955-1960.	5.3	95

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19	Simultaneous Determination of pKa and Lipophilicity by Gradient RP HPLC. Analytical Chemistry, 2006, 78, 239-249.	3.2	94
20	Reduction of silanophilic interactions in liquid chromatography with the use of ionic liquids. Analytica Chimica Acta, 2005, 547, 172-178.	2.6	91
21	Hydrophobicity parameter from high-performance liquid chromatography on an immobilized artificial membrane column and its relationship to bioactivity. Journal of Chromatography A, 1995, 692, 83-89.	1.8	87
22	Determination of pKa by pH Gradient Reversed-Phase HPLC. Analytical Chemistry, 2004, 76, 3069-3077.	3.2	86
23	Quantitative structure–retention relationships models for prediction of high performance liquid chromatography retention time of small molecules: Endogenous metabolites and banned compounds. Analytica Chimica Acta, 2013, 797, 13-19.	2.6	86
24	Quantitative structure-retention relationships in the examination of the topography of the binding site of antihistamine drugs on α1-acid glycoprotein. Journal of Chromatography A, 1996, 722, 25-32.	1.8	73
25	Combination of linear solvent strength model and quantitative structure–retention relationships as a comprehensive procedure of approximate prediction of retention in gradient liquid chromatography. Journal of Chromatography A, 2002, 962, 41-55.	1.8	73
26	Prediction of high-performance liquid chromatography retention of peptides with the use of quantitative structure-retention relationships. Proteomics, 2005, 5, 409-415.	1.3	73
27	Predictive approaches to gradient retention based on analyte structural descriptors from calculation chemistry. Journal of Chromatography A, 2003, 987, 29-37.	1.8	72
28	Cholesteryl-silica stationary phase for liquid chromatography. Journal of Chromatography A, 1999, 845, 433-445.	1.8	71
29	Prediction of gradient retention from the linear solvent strength (LSS) model, quantitative structure-retention relationships (QSRR), and artificial neural networks (ANN). Journal of Separation Science, 2003, 26, 271-282.	1.3	71
30	Evaluation of the silanol-suppressing potency of ionic liquids. Journal of Separation Science, 2006, 29, 1138-1145.	1.3	71
31	Liquid chromatography tandem mass spectrometry study of urinary nucleosides as potential cancer markers. Journal of Chromatography A, 2013, 1283, 122-131.	1.8	70
32	Mechanism of retention in high-performance liquid chromatography on porous graphitic carbon as revealed by principal component analysis of structural descriptors of solutes. Journal of Chromatography A, 1990, 499, 333-344.	1.8	68
33	Predictions of peptides' retention times in reversed-phase liquid chromatography as a new supportive tool to improve protein identification in proteomics. Proteomics, 2009, 9, 835-847.	1.3	67
34	Test Analytes for Studies of the Molecular Mechanism of Chromatographic Separations by Quantitative Structure-Retention Relationships. Analytical Chemistry, 1999, 71, 2976-2985.	3.2	65
35	Binding site for basic drugs on α1-acid glycoprotein as revealed by chemometric analysis of biochromatographic data. Biomedical Chromatography, 1995, 9, 211-215.	0.8	64
36	Artificial Neural Network Analysis for Evaluation of Peptide MS/MS Spectra in Proteomics. Analytical Chemistry, 2004, 76, 1726-1732.	3.2	62

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37	Quantum chemical parameters in correlation analysis of gas–liquid chromatographic retention indices of amines. Journal of Chromatography A, 1985, 346, 53-60.	1.8	59
38	Deactivated hydrocarbonaceous silica and immobilized artificial membrane stationary phases in high-performance liquid chromatographic determination of hydrophobicities of organic bases: relationship to log P and CLOGP. Journal of Pharmaceutical and Biomedical Analysis, 1993, 11, 505-511.	1.4	58
39	Chiral separations using an immobilized protein–dextran polymer network in affinity capillary electrophoresis. Journal of Chromatography A, 1993, 652, 247-252.	1.8	58
40	pH Gradient Reversed-Phase HPLC. Analytical Chemistry, 2004, 76, 749-760.	3.2	57
41	Determination of ascorbic acid and its degradation products by high-performance liquid chromatography–triple quadrupole mass spectrometry. Electrophoresis, 2014, 35, 585-592.	1.3	57
42	Separation of nicotinic acid and its structural isomers using 1-ethyl-3-methylimidazolium ionic liquid as a buffer additive by capillary electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 2006, 41, 329-332.	1.4	56
43	Altered levels of nucleoside metabolite profiles in urogenital tract cancer measured by capillary electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 1305-1312.	1.4	55
44	Mechanism of separation on cholesterol–silica stationary phase for high-performance liquid chromatography as revealed by analysis of quantitative structure–retention relationships. Journal of Pharmaceutical and Biomedical Analysis, 1998, 18, 721-728.	1.4	54
45	Quantitative Structure-Retention Relationships with Model Analytes as a Means of an Objective Evaluation of Chromatographic Columns. Journal of Chromatographic Science, 2001, 39, 29-38.	0.7	52
46	Development and validation of urinary nucleosides and creatinine assay by capillary electrophoresis with solid phase extraction. Journal of Pharmaceutical and Biomedical Analysis, 2007, 44, 1118-1126.	1.4	52
47	Synthesis and Hypolipidemic and Antiplatelet Activities of α-Asarone Isomers in Humans (in Vitro), Mice (in Vivo), and Rats (in Vivo). Journal of Medicinal Chemistry, 2000, 43, 3671-3676.	2.9	50
48	Reversed-Phase TLC and HPLC Retention Data in Correlation Studies with in Silico Molecular Descriptors and Druglikeness Properties of Newly Synthesized Anticonvulsant Succinimide Derivatives. Molecular Pharmaceutics, 2011, 8, 555-563.	2.3	50
49	Quantitative retention relationships as a function of mobile and C18 stationary phase composition for non-cogeneric solutes. Journal of Chromatography A, 1986, 352, 141-155.	1.8	47
50	Keratin immobilized on silica as a new stationary phase for chromatographic modelling of skin permeation. Journal of Pharmaceutical and Biomedical Analysis, 1997, 15, 1325-1333.	1.4	47
51	Chromatography and capillary electrophoresis in modelling the basic processes of drug action. TrAC - Trends in Analytical Chemistry, 1999, 18, 400-410.	5.8	47
52	Gradient HPLC in the determination of drug lipophilicity and acidity. Pure and Applied Chemistry, 2001, 73, 1465-1475.	0.9	46
53	Quantitative structure–retention relationships in affinity high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 768, 55-66.	1.2	44
54	pH/Organic Solvent Double-Gradient Reversed-Phase HPLC. Analytical Chemistry, 2005, 77, 449-458.	3.2	44

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55	Enthalpic exclusion chromatography. Faraday Symposia of the Chemical Society, 1980, 15, 113.	0.5	42
56	Quantitative structure–retention relationships in comparative studies of behavior of stationary phases under high-performance liquid chromatography and capillary electrochromatography conditions. Journal of Chromatography A, 2002, 977, 193-206.	1.8	42
57	pH gradient high-performance liquid chromatography: theory and applications. Journal of Chromatography A, 2004, 1060, 165-175.	1.8	42
58	Comparative evaluation of high-performance liquid chromatography stationary phases used for the separation of peptides in terms of quantitative structure–retention relationships. Journal of Chromatography A, 2007, 1175, 49-54.	1.8	41
59	Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure retention relationships. Journal of Chromatography A, 1992, 609, 69-81.	1.8	40
60	An Approach Based on HPLC-Fingerprint and Chemometrics to Quality Consistency Evaluation of Matricaria chamomilla L. Commercial Samples. Frontiers in Plant Science, 2016, 7, 1561.	1.7	40
61	Linear and Quadratic Relationships between Retention and Organic Modifier Content in Eluent in Reversed Phase High-Performance Liquid Chromatography: A Systematic Comparative Statistical Study. Journal of High Resolution Chromatography, 2000, 23, 667-676.	2.0	39
62	Evaluation of HPLC columns: A study on surface homogeneity of chemically bonded stationary phases. Journal of Separation Science, 2003, 26, 313-321.	1.3	39
63	The state-of-the-art determination of urinary nucleosides using chromatographic techniques "hyphenated" with advanced bioinformatic methods. Analytical and Bioanalytical Chemistry, 2011, 401, 2039-2050.	1.9	39
64	Blood–brain barrier permeability mechanisms in view of quantitative structure–activity relationships (QSAR). Journal of Pharmaceutical and Biomedical Analysis, 2015, 108, 29-37.	1.4	39
65	Least absolute shrinkage and selection operator and dimensionality reduction techniques in quantitative structure retention relationship modeling of retention in hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2015, 1403, 54-62.	1.8	39
66	PLS-Based and Regularization-Based Methods for the Selection of Relevant Variables in Non-targeted Metabolomics Data. Frontiers in Molecular Biosciences, 2016, 3, 35.	1.6	39
67	Gas chromatographic determination of molecular polarity and quantum chemical calculation of dipole moments in a group of substituted phenols. Journal of Chromatography A, 1982, 234, 303-311.	1.8	38
68	New approaches to chromatographic determination of lipophilicity of xenobiotics. Analytical and Bioanalytical Chemistry, 2003, 377, 803-811.	1.9	38
69	Chromatographic data for pharmacological classification of imidazol(in)e drugs. Journal of Chromatography A, 1991, 550, 573-584.	1.8	36
70	Application of chemometrically processed chromatographic data for pharmacologically relevant classification of antihistamine drugs. Journal of Chromatography A, 1993, 633, 57-63.	1.8	34
71	Quantitative structure-retention relationships in reversed-phase liquid chromatography using several stationary and mobile phases. Journal of Separation Science, 2003, 26, 777-792.	1.3	33
72	Preliminary studies on trigonelline as potential anti-Alzheimer disease agent: Determination by hydrophilic interaction liquid chromatography and modeling of interactions with beta-amyloid. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 968, 101-104.	1.2	33

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73	The application of gradient reversed-phase high-performance liquid chromatography to the pKa and determination of polyprotic analytes. Journal of Chromatography A, 2008, 1214, 109-114.	1.8	32
74	Metabolomic approach for determination of urinary nucleosides as potential tumor markers using electromigration techniques. Electrophoresis, 2010, 31, 2300-2310.	1.3	32
75	A relationship between repression of dimethylnitrosamine-demethylase by polycyclic aromatic hydrocarbons and their shape. Biochemical Pharmacology, 1979, 28, 123-125.	2.0	31
76	Behavior of peptides and computer-assisted optimization of peptides separations in a normal-phase thin-layer chromatography system with and without the addition of ionic liquid in the eluent. Biomedical Chromatography, 2005, 19, 1-8.	0.8	31
77	New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides synthesis and chemometric analysis of retention data. Journal of Chromatography A, 1996, 728, 201-211.	1.8	30
78	Chromatographic retention parameters in correlation analysis with in silico biological descriptors of a novel series of N-phenyl-3-methyl succinimide derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2013, 72, 65-73.	1.4	30
79	Free silanols and ionic liquids as their suppressors in liquid chromatography. Journal of Chromatography A, 2018, 1559, 17-43.	1.8	29
80	Progress in the Use of HPLC for Evaluation of Lipophilicity. Current Computer-Aided Drug Design, 2006, 2, 327-340.	0.8	29
81	Quantitative relationships between the structure of β-adrenolytic and antihistamine drugs and their retention on an α1-acid glycoprotein HPLC column. Biomedical Chromatography, 1994, 8, 125-129.	0.8	28
82	Association Constants of Pyridine and Piperidine Alkaloids to Amyloid ß Peptide Determined by Electrochemical Impedance Spectroscopy. Current Alzheimer Research, 2010, 7, 165-172.	0.7	28
83	Analysis of urinary nucleosides as potential cancer markers determined using LC–MS technique. Journal of Pharmaceutical and Biomedical Analysis, 2014, 101, 50-57.	1.4	28
84	Determination of hydrophobicity parameters on polybutadiene-coated alumina and their application in quantitative structure-activity relationships analysis. Journal of Chromatography A, 1988, 458, 395-404.	1.8	27
85	Evaluation of different warping methods for the analysis of CE profiles of urinary nucleosides. Electrophoresis, 2007, 28, 2861-2873.	1.3	27
86	Pharmacokinetics and pharmacodynamics of propofol in patients undergoing abdominal aortic surgery. Pharmacological Reports, 2012, 64, 113-122.	1.5	27
87	Determination of pterins in urine by HPLC with UV and fluorescent detection using different types of chromatographic stationary phases (HILIC, RP C8, RP C18). Journal of Pharmaceutical and Biomedical Analysis, 2014, 91, 37-45.	1.4	27
88	Verification of the exponential model of body temperature decrease after death in pigs. Experimental Physiology, 2005, 90, 727-738.	0.9	26
89	pH Gradient as a Tool for the Separation of Ionizable Analytes in Reversed-Phase High-Performance Chromatography. Analytical Chemistry, 2010, 82, 3692-3698.	3.2	26
90	Ionic Liquids as Mobile Phase Additives for Feasible Assay of Naphazoline in Pharmaceutical Formulation by HPTLC-UV-Densitometric Method. Journal of Chromatographic Science, 2013, 51, 560-565.	0.7	26

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91	Theoretical opportunities and actual limitations of pH gradient HPLC. Analytical and Bioanalytical Chemistry, 2005, 382, 718-727.	1.9	25
92	Targeted metabolomics in bladder cancer: From analytical methods development and validation towards application to clinical samples. Analytica Chimica Acta, 2018, 1037, 188-199.	2.6	25
93	Chromatographic modelling of interactions between melanin and phenothiazine and dibenzazepine drugs. Biomedical Chromatography, 1995, 9, 233-237.	0.8	24
94	Influence of pH on Retention in Linear Organic Modifier Gradient RP HPLC. Analytical Chemistry, 2008, 80, 7855-7861.	3.2	24
95	Partial Least Square and Hierarchical Clustering in ADMET Modeling: Prediction of Blood – Brain Barrier Permeation of Î±-Adrenergic and Imidazoline Receptor Ligands. Journal of Pharmacy and Pharmaceutical Sciences, 2013, 16, 622.	0.9	24
96	Reversed- and normal-phase liquid chromatography in quantitative structure retention–property relationships of newly synthesized seco-androstene derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2014, 88, 636-642.	1.4	24
97	Quantitative structure/retention relationships in affinity chromatography. Journal of Proteomics, 2001, 49, 83-98.	2.4	23
98	Human red blood cells targeted metabolome analysis of glycolysis cycle metabolites by capillary electrophoresis using an indirect photometric detection method. Journal of Pharmaceutical and Biomedical Analysis, 2005, 39, 636-642.	1.4	22
99	Simultaneous determination of hydrophobicity and dissociation constant for a large set of compounds by gradient reverse phase high performance liquid chromatography–mass spectrometry technique. Journal of Chromatography A, 2015, 1416, 31-37.	1.8	22
100	The pharmacokinetics of dexmedetomidine during long-term infusion in critically ill pediatric patients. A Bayesian approach with informative priors. Journal of Pharmacokinetics and Pharmacodynamics, 2016, 43, 315-324.	0.8	22
101	Urinary metabolomic signature of muscle-invasive bladder cancer: A multiplatform approach. Talanta, 2019, 202, 572-579.	2.9	22
102	Retention of barbituric acid derivatives on immobilized artificial membrane stationary phase and its correlation with biological activity. Biomedical Chromatography, 2000, 14, 256-260.	0.8	21
103	Retention time and peak width in the combined pH/organic modifier gradient high performance liquid chromatography. Journal of Chromatography A, 2010, 1217, 3375-3381.	1.8	21
104	Human blood platelet alpha adrenoceptor in view of the effects of various imidazol(in)e drugs on aggregation. General Pharmacology, 1991, 22, 819-823.	0.7	20
105	Combined pH/organic solvent gradient HPLC in analysis of forensic material. Journal of Pharmaceutical and Biomedical Analysis, 2005, 37, 871-875.	1.4	20
106	Gradient reversed-phase high-performance chromatography of ionogenic analytes. TrAC - Trends in Analytical Chemistry, 2011, 30, 1372-1381.	5.8	20
107	Magnetic beads method for determination of binding of drugs to melanin. Journal of Chromatography A, 2011, 1218, 229-236.	1.8	20
108	Maximum *A Posteriori* Bayesian Estimation of Chromatographic Parameters by Limited Number of Experiments. Analytical Chemistry, 2015, 87, 7241-7249.	3.2	20

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109	HPLC–MS/MS method for dexmedetomidine quantification with Design of Experiments approach: application to pediatric pharmacokinetic study. Bioanalysis, 2017, 9, 395-406.	0.6	20
110	Amlodipine Increased Endothelial Nitric Oxide and Decreased Nitroxidative Stress Disproportionately to Blood Pressure Changes. American Journal of Hypertension, 2014, 27, 482-488.	1.0	19
111	Evaluation of in silico pharmacokinetic properties and in vitro cytotoxic activity of selected newly synthesized N-succinimide derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2017, 137, 252-257.	1.4	19
112	Collagen immobilised on silica derivatives as a new stationary phase for HPLC. , 1998, 12, 187-192.		18
113	The application of 19F magnetic resonance ex vivo imaging of three-dimensional cultured breast cancer cells to study the effect of ί-tocopherol. Analytical Biochemistry, 2009, 387, 315-317.	1.1	17
114	Pyrazine CH- and NH-acids. Antithrombotic activity and chromatographic behaviour. General Pharmacology, 1993, 24, 17-22.	0.7	16
115	Comparison of RP-HPLC columns used for determination of nucleoside metabolic patterns in urine of cancer patients. Bioanalysis, 2012, 4, 1185-1194.	0.6	16
116	How Much Can We Learn from a Single Chromatographic Experiment? A Bayesian Perspective. Analytical Chemistry, 2016, 88, 997-1002.	3.2	16
117	Steroid profiles as potential biomarkers in patients with urogenital tract cancer for diagnostic investigations analyzed by liquid chromatography coupled to mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2013, 73, 108-115.	1.4	15
118	Quantitative structure–retention relationships of ionic liquid cations in characterization of stationary phases for HPLC. Analytical Methods, 2014, 6, 1189.	1.3	15
119	Metabolomic Signature of Early Vascular Aging (EVA) in Hypertension. Frontiers in Molecular Biosciences, 2020, 7, 12.	1.6	15
120	Predictions of Reversed-Phase Gradient Elution LC Separations Supported by QSRR. Chromatographia, 2008, 68, 161-166.	0.7	14
121	The Characterization of Ground Raspberry Seeds and the Physiological Response to Supplementation in Hypertensive and Normotensive Rats. Nutrients, 2020, 12, 1630.	1.7	14
122	High-throughput Evaluation of Lipophilicity and Acidity by New Gradient HPLC Methods. Combinatorial Chemistry and High Throughput Screening, 2004, 7, 281-289.	0.6	14
123	Non-linear structure-enantioselective retention relationships in a homologous series of 1,4-disubstituted piperazine derivatives. Journal of Chromatography A, 1997, 788, 81-85.	1.8	13
124	New supervised alignment method as a preprocessing tool for chromatographic data in metabolomic studies. Journal of Chromatography A, 2012, 1256, 150-159.	1.8	13
125	Assessing circadian rhythms during prolonged midazolam infusion in the pediatric intensive care unit (PICU) children. Pharmacological Reports, 2013, 65, 107-121.	1.5	13
126	GC/MS technique and AMDIS software application in identification of hydrophobic compounds of grasshoppers' abdominal secretion (Chorthippus spp.). Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 331-339.	1.4	13

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127	Modern analytical methods for consideration of natural biological activity. TrAC - Trends in Analytical Chemistry, 2018, 109, 198-213.	5.8	13
128	Metabolomic Heterogeneity of Urogenital Tract Cancers Analyzed by Complementary Chromatographic Techniques Coupled with Mass Spectrometry. Current Medicinal Chemistry, 2019, 26, 216-231.	1.2	13
129	Pharmacological Classification of Drugs Based on Neural Network Processing of Molecular Modeling Data. Combinatorial Chemistry and High Throughput Screening, 2000, 3, 525-533.	0.6	13
130	Blood Platelet Adrenoceptor: Aggregatory and Antiaggregatory Activity of Imidazoline Drugs. Pharmacology, 1986, 33, 249-255.	0.9	12
131	Imidazo[4,5-b]pyridine Derivatives of Potential Tuberculostatic Activity. Part 1: Synthesis and Quantitative Structure-Activity Relationships. Archiv Der Pharmazie, 1991, 324, 121-127.	2.1	12
132	QSAR, QSPR and QSRR in Terms of 3-D-MoRSE Descriptors for In Silico Screening of Clofibric Acid Analogues. Molecular Informatics, 2012, 31, 453-458.	1.4	12
133	Untargeted Metabolomics Provides Insight into the Mechanisms Underlying Resistant Hypertension. Current Medicinal Chemistry, 2019, 26, 232-243.	1.2	12
134	Efficient recovery of electrophoretic profiles of nucleoside metabolites from urine samples by multivariate curve resolution. Electrophoresis, 2009, 30, 3573-3581.	1.3	11
135	Imidazo[4,5‐b]pyridine derivatives of potential tuberculostatic activity, II: Synthesis and bioactivity of designed and some other 2‐cyanomethylimidazo[4,5‐b]pyridine derivatives. Archiv Der Pharmazie, 1991, 324, 537-542.	2.1	11
136	A new pH/organic modifier gradient RP HPLC method for convenient determination of lipophilicity and acidity of drugs as applied to established imidazoline agents. European Journal of Pharmaceutical Sciences, 2012, 47, 1-5.	1.9	11
137	Pharmacokinetics of sufentanil during long-term infusion in critically ill pediatric patients. Journal of Clinical Pharmacology, 2016, 56, 109-115.	1.0	11
138	Quantitative determination of trigonelline in mouse serum by means of hydrophilic interaction liquid chromatography‐MS/MS analysis: Application to a pharmacokinetic study. Biomedical Chromatography, 2018, 32, e4054.	0.8	11
139	Ocular irritation and cyclosporine A distribution in the eye tissues after administration of Solid Lipid Microparticles in the rabbit model. European Journal of Pharmaceutical Sciences, 2018, 121, 95-105.	1.9	11
140	Comparative studies of antiplatelet activity of nonsteroidal antiinflammatory drugs and new pyrazine CH- and nh-acids. Life Sciences, 1995, 56, 667-677.	2.0	10
141	Thermodynamic vs. extrathermodynamic modeling of chromatographic retention. Journal of Chromatography A, 2011, 1218, 5120-5130.	1.8	10
142	Development and validation of UHPLC method for the determination of cyclosporine A in biological samples. Biomedical Chromatography, 2014, 28, 802-809.	0.8	10
143	Multilevel pharmacokinetics-driven modeling of metabolomics data. Metabolomics, 2017, 13, 31.	1.4	10
144	Quantitative Structure-Retention Relationships in Capillary Electrophoresis of Inorganic Cations and ÃŽÂ²-Adrenolytic and Sulfonamides Compounds. QSAR and Combinatorial Science, 1995, 14, 356-361.	1.4	9

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145	Artificial Neural Networks for Prediction of Antibacterial Activity in Series of Imidazole Derivatives. Combinatorial Chemistry and High Throughput Screening, 2004, 7, 327-336.	0.6	9
146	pH gradient reversed-phase liquid chromatography as a fractionation tool for the separation of peptides. Talanta, 2008, 75, 76-82.	2.9	8
147	19F MRI of 3D CEM cells to study the effects of tocopherols and tocotrienols. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 599-602.	1.4	8
148	Pharmacokinetics and pharmacodynamics of propofol in children undergoing different types of surgeries. Pharmacological Reports, 2014, 66, 821-829.	1.5	8
149	Thermodynamic and QSRR Modeling of HPLC Retention on Modern Stationary Phases. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 62-67.	0.5	8
150	Application of a geometric parameter defining molecular shape, for the quantitation of interaction of polycyclic aromatic hydrocarbons with enzyme systems. Biochemical Pharmacology, 1981, 30, 2337-2341.	2.0	7
151	Syntheses and Biological Activities of 2-(Adamantylmethyl)benzimidazoles and -imidazolines. Archiv Der Pharmazie, 1986, 319, 830-834.	2.1	7
152	Correlation between retention on liquid crystalline phases and chemical structure. Journal of Chromatography A, 1986, 361, 442-444.	1.8	7
153	Binding of an Oxindole Alkaloid from Uncaria tomentosa to Amyloid Protein (AÎ²1-40). Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2006, 61, 821-826.	0.6	7
154	Mydriasis model in rats as a simple system to evaluate Î±2-adrenergic activity of the imidazol(in)e compounds. Pharmacological Reports, 2013, 65, 305-312.	1.5	7
155	The quantification of reticulocyte maturation and neocytolysis in normal and erythropoietin stimulated rats. Biopharmaceutics and Drug Disposition, 2014, 35, 330-340.	1.1	7
156	The influence of the time of day on midazolam pharmacokinetics and pharmacodynamics in rabbits. Pharmacological Reports, 2014, 66, 143-152.	1.5	7
157	Determination of Water-Soluble Components of Abdominal Secretion of Grasshopper (Chorthippus) Tj ETQq1 1 0.784314 rgBT /Over	0.7	7
158	Bayesian multilevel model of micro RNA levels in ovarian-cancer and healthy subjects. PLoS ONE, 2019, 14, e0221764.	1.1	7
159	The influence of age and dosage on the pharmacodynamics of dexmedetomidine in rabbits. Journal of Medical Science, 2014, 83, 108-115.	0.2	7
160	Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol Palmitate. Journal of Pharmaceutical Sciences, 1986, 75, 187-189.	1.6	6
161	Identification of lipid fraction constituents from grasshopper (Chorthippus spp.) abdominal secretion with potential activity in wound healing with the use of GCâ€"MS/MS technique. Journal of Pharmaceutical and Biomedical Analysis, 2014, 89, 56-66.	1.4	6
162	Analysis of Isocratic-Chromatographic-Retention Data using Bayesian Multilevel Modeling. Analytical Chemistry, 2018, 90, 13670-13679.	3.2	6

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163	Imidazoline receptors in relaxation of acetylcholine-constricted isolated rat jejunum. Pharmacological Reports, 2006, 58, 700-10.	1.5	6
164	The relationship between electron densities and the electronic substituent constants for substituted pyridines. International Journal of Quantum Chemistry, 1985, 28, 233-237.	1.0	5
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