

Roman Kaliszan

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183
papers

6,415
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44
h-index

71
g-index

190
ext. papers

6,916
ext. citations

4.8
avg, IF

5.93
L-index

#	Paper	IF	Citations
183	QSRR: quantitative structure-(chromatographic) retention relationships. <i>Chemical Reviews</i> , 2007 , 107, 3212-46	68.1	372
182	Quantitative structure-retention relationships applied to reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1993 , 656, 417-435	4.5	182
181	Molecular mechanism of retention in reversed-phase high-performance liquid chromatography and classification of modern stationary phases by using quantitative structure-retention relationships. <i>Journal of Chromatography A</i> , 1999 , 855, 455-86	4.5	181
180	Theory of solvent disturbance peaks and experimental determination of thermodynamic dead-volume in column liquid chromatography. <i>Journal of Chromatography A</i> , 1985 , 349, 211-234	4.5	181
179	Metabolomics for laboratory diagnostics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 113, 108-20	3.5	159
178	Suppression of deleterious effects of free silanols in liquid chromatography by imidazolium tetrafluoroborate ionic liquids. <i>Journal of Chromatography A</i> , 2004 , 1030, 263-71	4.5	153
177	Determination of solute lipophilicity, as log P(octanol) and log P(alkane) using poly(styrene-divinylbenzene) and immobilised artificial membrane stationary phases in reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1997 , 766, 35-47	4.5	146
176	Chromatographic retention parameters in medicinal chemistry and molecular pharmacology. <i>Current Medicinal Chemistry</i> , 2003 , 10, 381-426	4.3	140
175	Chromatography in studies of quantitative structure-activity relationships. <i>Journal of Chromatography A</i> , 1981 , 220, 71-83	4.5	120
174	Comparative characteristics of HPLC columns based on quantitative structure-retention relationships (QSRR) and hydrophobic-subtraction model. <i>Journal of Chromatography A</i> , 2005 , 1075, 109-115	4.5	99
173	QUANTITATIVE STRUCTURE-RETENTION RELATIONSHIPS. <i>Analytical Chemistry</i> , 1992 , 64, 619A-631A	7.8	97
172	Chemically Bonded Silica Stationary Phases: Synthesis, Physicochemical Characterization, and Molecular Mechanism of Reversed-Phase HPLC Retention. <i>Analytical Chemistry</i> , 1997 , 69, 3277-3284	7.8	93
171	Column Characterization and Selection Systems in Reversed-Phase High-Performance Liquid Chromatography. <i>Chemical Reviews</i> , 2019 , 119, 3674-3729	68.1	91
170	Prediction of peptide retention at different HPLC conditions from multiple linear regression models. <i>Journal of Proteome Research</i> , 2005 , 4, 555-63	5.6	90
169	Application of Ionic Liquids in Liquid Chromatography. <i>Critical Reviews in Analytical Chemistry</i> , 2007 , 37, 127-140	5.2	87
168	Lipophilicity and pKa estimates from gradient high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2002 , 965, 117-27	4.5	87
167	Electrochemical impedance spectroscopy for study of amyloid beta-peptide interactions with (-) nicotine ditartrate and (-) cotinine. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1955-60	11.8	82

166	Reduction of silanophilic interactions in liquid chromatography with the use of ionic liquids. <i>Analytica Chimica Acta</i> , 2005 , 547, 172-178	6.6	82
165	Simultaneous determination of pKa and lipophilicity by gradient RP HPLC. <i>Analytical Chemistry</i> , 2006 , 78, 239-49	7.8	81
164	Urine metabolic fingerprinting using LC-MS and GC-MS reveals metabolite changes in prostate cancer: A pilot study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 111, 351-61	3.5	79
163	Determination of pKa by pH gradient reversed-phase HPLC. <i>Analytical Chemistry</i> , 2004 , 76, 3069-77	7.8	79
162	Hydrophobicity parameter from high-performance liquid chromatography on an immobilized artificial membrane column and its relationship to bioactivity. <i>Journal of Chromatography A</i> , 1995 , 692, 83-89	4.5	76
161	Quantitative structure-retention relationships models for prediction of high performance liquid chromatography retention time of small molecules: endogenous metabolites and banned compounds. <i>Analytica Chimica Acta</i> , 2013 , 797, 13-9	6.6	70
160	Predictive approaches to gradient retention based on analyte structural descriptors from calculation chemistry. <i>Journal of Chromatography A</i> , 2003 , 987, 29-37	4.5	69
159	Quantitative structure-retention relationships in the examination of the topography of the binding site of antihistamine drugs on alpha 1-acid glycoprotein. <i>Journal of Chromatography A</i> , 1996 , 722, 25-32	4.5	69
158	Combination of linear solvent strength model and quantitative structure-retention relationships as a comprehensive procedure of approximate prediction of retention in gradient liquid chromatography. <i>Journal of Chromatography A</i> , 2002 , 962, 41-55	4.5	67
157	Prediction of high-performance liquid chromatography retention of peptides with the use of quantitative structure-retention relationships. <i>Proteomics</i> , 2005 , 5, 409-15	4.8	67
156	Mechanism of retention in high-performance liquid chromatography on porous graphitic carbon as revealed by principal component analysis of structural descriptors of solutes. <i>Journal of Chromatography A</i> , 1990 , 499, 333-344	4.5	67
155	Prediction of gradient retention from the linear solvent strength (LSS) model, quantitative structure-retention relationships (QSRR), and artificial neural networks (ANN). <i>Journal of Separation Science</i> , 2003 , 26, 271-282	3.4	65
154	Cholesteryl-silica stationary phase for liquid chromatography: Comparative study of retention behavior and selectivity. <i>Journal of Chromatography A</i> , 1999 , 845, 433-445	4.5	65
153	Evaluation of the silanol-suppressing potency of ionic liquids. <i>Journal of Separation Science</i> , 2006 , 29, 1138-45	3.4	64
152	Test analytes for studies of the molecular mechanism of chromatographic separations by quantitative structure-retention relationships. <i>Analytical Chemistry</i> , 1999 , 71, 2976-85	7.8	63
151	Binding site for basic drugs on alpha 1-acid glycoprotein as revealed by chemometric analysis of biochromatographic data. <i>Biomedical Chromatography</i> , 1995 , 9, 211-5	1.7	59
150	Artificial neural network analysis for evaluation of peptide MS/MS spectra in proteomics. <i>Analytical Chemistry</i> , 2004 , 76, 1726-32	7.8	58
149	Predictions of peptides retention times in reversed-phase liquid chromatography as a new supportive tool to improve protein identification in proteomics. <i>Proteomics</i> , 2009 , 9, 835-47	4.8	57

148	Liquid chromatography tandem mass spectrometry study of urinary nucleosides as potential cancer markers. <i>Journal of Chromatography A</i> , 2013 , 1283, 122-31	4.5	55
147	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1993 , 11, 505-11	3.5	54
146	Mechanism of separation on cholesterol-silica stationary phase for high-performance liquid chromatography as revealed by analysis of quantitative structure-retention relationships. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998 , 18, 721-8	3.5	53
145	pH gradient reversed-phase HPLC. <i>Analytical Chemistry</i> , 2004 , 76, 749-60	7.8	53
144	Chiral separations using an immobilized protein-dextran polymer network in affinity capillary electrophoresis. <i>Journal of Chromatography A</i> , 1993 , 652, 247-252	4.5	52
143	Development and validation of urinary nucleosides and creatinine assay by capillary electrophoresis with solid phase extraction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 44, 1118-26	3.5	50
142	Quantum chemical parameters in correlation analysis of gas-liquid chromatographic retention indices of amines. <i>Journal of Chromatography A</i> , 1985 , 346, 53-60	4.5	50
141	Separation of nicotinic acid and its structural isomers using 1-ethyl-3-methylimidazolium ionic liquid as a buffer additive by capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 41, 329-32	3.5	48
140	Quantitative structure-retention relationships with model analytes as a means of an objective evaluation of chromatographic columns. <i>Journal of Chromatographic Science</i> , 2001 , 39, 29-38	1.4	48
139	Reversed-phase TLC and HPLC retention data in correlation studies with in silico molecular descriptors and druglikeness properties of newly synthesized anticonvulsant succinimide derivatives. <i>Molecular Pharmaceutics</i> , 2011 , 8, 555-63	5.6	43
138	Gradient HPLC in the determination of drug lipophilicity and acidity. <i>Pure and Applied Chemistry</i> , 2001 , 73, 1465-1475	2.1	43
137	Chromatography and capillary electrophoresis in modelling the basic processes of drug action. <i>TrAC - Trends in Analytical Chemistry</i> , 1999 , 18, 400-410	14.6	43
136	Altered levels of nucleoside metabolite profiles in urogenital tract cancer measured by capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 1305-12	3.5	42
135	pH/organic solvent double-gradient reversed-phase HPLC. <i>Analytical Chemistry</i> , 2005 , 77, 449-58	7.8	42
134	Determination of ascorbic acid and its degradation products by high-performance liquid chromatography-triple quadrupole mass spectrometry. <i>Electrophoresis</i> , 2014 , 35, 585-92	3.6	41
133	Quantitative structure-retention relationships in comparative studies of behavior of stationary phases under high-performance liquid chromatography and capillary electrochromatography conditions. <i>Journal of Chromatography A</i> , 2002 , 977, 193-206	4.5	41
132	Synthesis and hypolipidemic and antiplatelet activities of alpha-asarone isomers in humans (in vitro), mice (in vivo), and rats (in vivo). <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 3671-6	8.3	41
131	Quantitative retention relationships as a function of mobile and C18 stationary phase composition for non-cogeneric solutes. <i>Journal of Chromatography A</i> , 1986 , 352, 141-55	4.5	41

130	Keratin immobilized on silica as a new stationary phase for chromatographic modelling of skin permeation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997 , 15, 1325-33	3.5	40
129	pH gradient high-performance liquid chromatography: theory and applications. <i>Journal of Chromatography A</i> , 2004 , 1060, 165-75	4.5	39
128	Quantitative structure-retention relationships in affinity high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 768, 55-66	3.2	39
127	Evaluation of HPLC columns: A study on surface homogeneity of chemically bonded stationary phases. <i>Journal of Separation Science</i> , 2003 , 26, 313-321	3.4	38
126	Enthalpic exclusion chromatography. <i>Faraday Symposia of the Chemical Society</i> , 1980 , 15, 113		38
125	Linear and Quadratic Relationships between Retention and Organic Modifier Content in Eluent in Reversed Phase High-Performance Liquid Chromatography: A Systematic Comparative Statistical Study. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 667-676		37
124	The state-of-the-art determination of urinary nucleosides using chromatographic techniques "hyphenated" with advanced bioinformatic methods. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2039-50	4.4	36
123	Comparative evaluation of high-performance liquid chromatography stationary phases used for the separation of peptides in terms of quantitative structure-retention relationships. <i>Journal of Chromatography A</i> , 2007 , 1175, 49-54	4.5	36
122	Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure retention relationships. <i>Journal of Chromatography A</i> , 1992 , 609, 69-81	4.5	36
121	New approaches to chromatographic determination of lipophilicity of xenobiotics. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 803-11	4.4	35
120	Chromatographic data for pharmacological classification of imidazol(in)e drugs. <i>Journal of Chromatography A</i> , 1991 , 550, 573-84	4.5	33
119	Application of chemometrically processed chromatographic data for pharmacologically relevant classification of antihistamine drugs. <i>Journal of Chromatography A</i> , 1993 , 633, 57-63	4.5	33
118	Least absolute shrinkage and selection operator and dimensionality reduction techniques in quantitative structure retention relationship modeling of retention in hydrophilic interaction liquid chromatography. <i>Journal of Chromatography A</i> , 2015 , 1403, 54-62	4.5	32
117	Gas chromatographic determination of molecular polarity and quantum chemical calculation of dipole moments in a group of substituted phenols. <i>Journal of Chromatography A</i> , 1982 , 234, 303-311	4.5	32
116	Blood-brain barrier permeability mechanisms in view of quantitative structure-activity relationships (QSAR). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 108, 29-37	3.5	31
115	Metabolomic approach for determination of urinary nucleosides as potential tumor markers using electromigration techniques. <i>Electrophoresis</i> , 2010 , 31, 2300-10	3.6	30
114	Quantitative structure-retention relationships in reversed-phase liquid chromatography using several stationary and mobile phases. <i>Journal of Separation Science</i> , 2003 , 26, 777-792	3.4	30
113	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. <i>Biomedical Chromatography</i> , 2005 , 19, 1-8	1.7	30

112	Progress in the Use of HPLC for Evaluation of Lipophilicity. <i>Current Computer-Aided Drug Design</i> , 2006 , 2, 327-340	1.4	29
111	An Approach Based on HPLC-Fingerprint and Chemometrics to Quality Consistency Evaluation of L. Commercial Samples. <i>Frontiers in Plant Science</i> , 2016 , 7, 1561	6.2	29
110	The application of gradient reversed-phase high-performance liquid chromatography to the pK(a) and log k(w) determination of polyprotic analytes. <i>Journal of Chromatography A</i> , 2008 , 1214, 109-14	4.5	28
109	New stationary phases for the high-performance liquid chromatographic separation of nucleosides and cyclic nucleotides synthesis and chemometric analysis of retention data. <i>Journal of Chromatography A</i> , 1996 , 728, 201-211	4.5	28
108	Quantitative relationships between the structure of beta-adrenolytic and antihistamine drugs and their retention on an alpha 1-acid glycoprotein HPLC column. <i>Biomedical Chromatography</i> , 1994 , 8, 125-9 ¹⁻⁷		27
107	Determination of hydrophobicity parameters on polybutadiene-coated alumina and their application in quantitative structure-activity relationships analysis. <i>Journal of Chromatography A</i> , 1988 , 458, 395-404	4.5	27
106	pH Gradient as a tool for the separation of ionizable analytes in reversed-phase high-performance chromatography. <i>Analytical Chemistry</i> , 2010 , 82, 3692-8	7.8	26
105	Evaluation of different warping methods for the analysis of CE profiles of urinary nucleosides. <i>Electrophoresis</i> , 2007 , 28, 2861-73	3.6	26
104	A relationship between repression of dimethylnitrosamine-demethylase by polycyclic aromatic hydrocarbons and their shape. <i>Biochemical Pharmacology</i> , 1979 , 28, 123-5	6	26
103	Pharmacokinetics and pharmacodynamics of propofol in patients undergoing abdominal aortic surgery. <i>Pharmacological Reports</i> , 2012 , 64, 113-22	3.9	25
102	Association constants of pyridine and piperidine alkaloids to amyloid beta peptide determined by electrochemical impedance spectroscopy. <i>Current Alzheimer Research</i> , 2010 , 7, 165-72	3	25
101	Determination of pterins in urine by HPLC with UV and fluorescent detection using different types of chromatographic stationary phases (HILIC, RP C8, RP C18). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 91, 37-45	3.5	24
100	Ionic liquids as mobile phase additives for feasible assay of naphazoline in pharmaceutical formulation by HPTLC-UV-densitometric method. <i>Journal of Chromatographic Science</i> , 2013 , 51, 560-5	1.4	24
99	Chromatographic retention parameters in correlation analysis with in silico biological descriptors of a novel series of N-phenyl-3-methyl succinimide derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 72, 65-73	3.5	24
98	Verification of the exponential model of body temperature decrease after death in pigs. <i>Experimental Physiology</i> , 2005 , 90, 727-38	2.4	23
97	Theoretical opportunities and actual limitations of pH gradient HPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 718-27	4.4	23
96	Quantitative structure/retention relationships in affinity chromatography. <i>Journal of Proteomics</i> , 2001 , 49, 83-98		23
95	PLS-Based and Regularization-Based Methods for the Selection of Relevant Variables in Non-targeted Metabolomics Data. <i>Frontiers in Molecular Biosciences</i> , 2016 , 3, 35	5.6	23

94	Free silanols and ionic liquids as their suppressors in liquid chromatography. <i>Journal of Chromatography A</i> , 2018 , 1559, 17-43	4.5	22
93	Preliminary studies on trigonelline as potential anti-Alzheimer disease agent: determination by hydrophilic interaction liquid chromatography and modeling of interactions with beta-amyloid. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 968, 101-4	3.2	22
92	Reversed- and normal-phase liquid chromatography in quantitative structure retention-property relationships of newly synthesized seco-androstene derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 88, 636-42	3.5	22
91	Analysis of urinary nucleosides as potential cancer markers determined using LC-MS technique. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 101, 50-7	3.5	22
90	Influence of pH on retention in linear organic modifier gradient RP HPLC. <i>Analytical Chemistry</i> , 2008 , 80, 7855-61	7.8	22
89	Chromatographic modelling of interactions between melanin and phenothiazine and dibenzazepine drugs. <i>Biomedical Chromatography</i> , 1995 , 9, 233-7	1.7	22
88	Retention time and peak width in the combined pH/organic modifier gradient high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2010 , 1217, 3375-81	4.5	21
87	HPLC-MS/MS method for dexmedetomidine quantification with Design of Experiments approach: application to pediatric pharmacokinetic study. <i>Bioanalysis</i> , 2017 , 9, 395-406	2.1	20
86	Partial least square and hierarchical clustering in ADMET modeling: prediction of blood-brain barrier permeation of adrenergic and imidazoline receptor ligands. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2013 , 16, 622-47	3.4	20
85	Human red blood cells targeted metabolome analysis of glycolysis cycle metabolites by capillary electrophoresis using an indirect photometric detection method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 39, 636-42	3.5	20
84	Magnetic beads method for determination of binding of drugs to melanin. <i>Journal of Chromatography A</i> , 2011 , 1218, 229-36	4.5	19
83	Retention of barbituric acid derivatives on immobilized artificial membrane stationary phase and its correlation with biological activity. <i>Biomedical Chromatography</i> , 2000 , 14, 256-60	1.7	19
82	Human blood platelet alpha adrenoceptor in view of the effects of various imidazol(in)e drugs on aggregation. <i>General Pharmacology</i> , 1991 , 22, 819-23		19
81	Targeted metabolomics in bladder cancer: From analytical methods development and validation towards application to clinical samples. <i>Analytica Chimica Acta</i> , 2018 , 1037, 188-199	6.6	18
80	Gradient reversed-phase high-performance chromatography of ionogenic analytes. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1372-1381	14.6	18
79	The pharmacokinetics of dexmedetomidine during long-term infusion in critically ill pediatric patients. A Bayesian approach with informative priors. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2016 , 43, 315-24	2.7	18
78	Amlodipine increased endothelial nitric oxide and decreased nitroxidative stress disproportionately to blood pressure changes. <i>American Journal of Hypertension</i> , 2014 , 27, 482-8	2.3	17
77	Combined pH/organic solvent gradient HPLC in analysis of forensic material. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 37, 871-5	3.5	17

76	Maximum A Posteriori Bayesian Estimation of Chromatographic Parameters by Limited Number of Experiments. <i>Analytical Chemistry</i> , 2015 , 87, 7241-9	7.8	16
75	Simultaneous determination of hydrophobicity and dissociation constant for a large set of compounds by gradient reverse phase high performance liquid chromatography-mass spectrometry technique. <i>Journal of Chromatography A</i> , 2015 , 1416, 31-7	4.5	16
74	The application of ¹⁹ F magnetic resonance ex vivo imaging of three-dimensional cultured breast cancer cells to study the effect of delta-tocopherol. <i>Analytical Biochemistry</i> , 2009 , 387, 315-7	3.1	16
73	Pyrazine CH- and NH-acids. Antithrombotic activity and chromatographic behaviour. <i>General Pharmacology</i> , 1993 , 24, 17-22		16
72	How Much Can We Learn from a Single Chromatographic Experiment? A Bayesian Perspective. <i>Analytical Chemistry</i> , 2016 , 88, 997-1002	7.8	14
71	Collagen immobilised on silica derivatives as a new stationary phase for HPLC. <i>Biomedical Chromatography</i> , 1998 , 12, 187-92	1.7	14
70	Steroid profiles as potential biomarkers in patients with urogenital tract cancer for diagnostic investigations analyzed by liquid chromatography coupled to mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 73, 108-15	3.5	13
69	Comparison of RP-HPLC columns used for determination of nucleoside metabolic patterns in urine of cancer patients. <i>Bioanalysis</i> , 2012 , 4, 1185-94	2.1	13
68	High-throughput evaluation of lipophilicity and acidity by new gradient HPLC methods. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2004 , 7, 281-9	1.3	13
67	GC/MS technique and AMDIS software application in identification of hydrophobic compounds of grasshoppers abdominal secretion (<i>Chorthippus</i> spp.). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 102, 331-9	3.5	12
66	New supervised alignment method as a preprocessing tool for chromatographic data in metabolomic studies. <i>Journal of Chromatography A</i> , 2012 , 1256, 150-9	4.5	12
65	Non-linear structure-enantioselective retention relationships in a homologous series of 1,4-disubstituted piperazine derivatives. <i>Journal of Chromatography A</i> , 1997 , 788, 81-85	4.5	12
64	Predictions of Reversed-Phase Gradient Elution LC Separations Supported by QSRR. <i>Chromatographia</i> , 2008 , 68, 161-166	2.1	12
63	Urinary metabolomic signature of muscle-invasive bladder cancer: A multiplatform approach. <i>Talanta</i> , 2019 , 202, 572-579	6.2	11
62	Quantitative structure-retention relationships of ionic liquid cations in characterization of stationary phases for HPLC. <i>Analytical Methods</i> , 2014 , 6, 1189	3.2	11
61	A new pH/organic modifier gradient RP HPLC method for convenient determination of lipophilicity and acidity of drugs as applied to established imidazoline agents. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 47, 1-5	5.1	11
60	Efficient recovery of electrophoretic profiles of nucleoside metabolites from urine samples by multivariate curve resolution. <i>Electrophoresis</i> , 2009 , 30, 3573-81	3.6	11
59	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. <i>Archiv Der Pharmazie</i> , 1991 , 324, 537-42	4.3	11

58	Blood platelet adrenoceptor: aggregatory and antiaggregatory activity of imidazoline drugs. <i>Pharmacology</i> , 1986 , 33, 249-55	2.3	11
57	Assessing circadian rhythms during prolonged midazolam infusion in the pediatric intensive care unit (PICU) children. <i>Pharmacological Reports</i> , 2013 , 65, 107-21	3.9	10
56	QSAR, QSPR and QSRR in Terms of 3-D-MoRSE Descriptors for In Silico Screening of Clofibrac Acid Analogues. <i>Molecular Informatics</i> , 2012 , 31, 453-8	3.8	10
55	Pharmacological classification of drugs based on neural network processing of molecular modeling data. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2000 , 3, 525-33	1.3	10
54	Modern analytical methods for consideration of natural biological activity. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 109, 198-213	14.6	10
53	Evaluation of in silico pharmacokinetic properties and in vitro cytotoxic activity of selected newly synthesized N-succinimide derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 137, 252-257	3.5	9
52	Quantitative Structure-Retention Relationships in Capillary Electrophoresis of Inorganic Cations and β -Adrenolytic and Sulfonamides Compounds. <i>QSAR and Combinatorial Science</i> , 1995 , 14, 356-361		9
51	Comparative studies of antiplatelet activity of nonsteroidal antiinflammatory drugs and new pyrazine CH- and NH-acids. <i>Life Sciences</i> , 1995 , 56, 667-77	6.8	9
50	Thermodynamic and QSRR Modeling of HPLC Retention on Modern Stationary Phases. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015 , 38, 62-67	1.3	8
49	The Characterization of Ground Raspberry Seeds and the Physiological Response to Supplementation in Hypertensive and Normotensive Rats. <i>Nutrients</i> , 2020 , 12,	6.7	8
48	Metabolomic Heterogeneity of Urogenital Tract Cancers Analyzed by Complementary Chromatographic Techniques Coupled with Mass Spectrometry. <i>Current Medicinal Chemistry</i> , 2019 , 26, 216-231	4.3	8
47	Development and validation of UHPLC method for the determination of cyclosporine A in biological samples. <i>Biomedical Chromatography</i> , 2014 , 28, 802-9	1.7	8
46	Thermodynamic vs. extrathermodynamic modeling of chromatographic retention. <i>Journal of Chromatography A</i> , 2011 , 1218, 5120-30	4.5	8
45	¹⁹ F MRI of 3D CEM cells to study the effects of tocopherols and tocotrienols. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 599-602	3.5	8
44	Imidazo[4,5-b]pyridine derivatives of potential tuberculostatic activity. Part 1: Synthesis and quantitative structure-activity relationships. <i>Archiv Der Pharmazie</i> , 1991 , 324, 121-7	4.3	8
43	Pharmacokinetics of sufentanil during long-term infusion in critically ill pediatric patients. <i>Journal of Clinical Pharmacology</i> , 2016 , 56, 109-15	2.9	8
42	Metabolomic Signature of Early Vascular Aging (EVA) in Hypertension. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 12	5.6	7
41	Quantitative determination of trigonelline in mouse serum by means of hydrophilic interaction liquid chromatography-MS/MS analysis: Application to a pharmacokinetic study. <i>Biomedical Chromatography</i> , 2018 , 32, e4054	1.7	7

40	Determination of Water-Soluble Components of Abdominal Secretion of Grasshopper (spp.) by GC/MS/MS in Search for Potential Wound Healing Agents. <i>Chromatographia</i> , 2014 , 77, 1091-1102	2.1	7
39	Pharmacokinetics and pharmacodynamics of propofol in children undergoing different types of surgeries. <i>Pharmacological Reports</i> , 2014 , 66, 821-9	3.9	7
38	Mydriasis model in rats as a simple system to evaluate α -adrenergic activity of the imidazol(in)e compounds. <i>Pharmacological Reports</i> , 2013 , 65, 305-12	3.9	7
37	The quantification of reticulocyte maturation and neocytolysis in normal and erythropoietin stimulated rats. <i>Biopharmaceutics and Drug Disposition</i> , 2014 , 35, 330-40	1.7	7
36	Correlation between retention on liquid crystalline phases and chemical structure. <i>Journal of Chromatography A</i> , 1986 , 361, 442-444	4.5	7
35	Multilevel pharmacokinetics-driven modeling of metabolomics data. <i>Metabolomics</i> , 2017 , 13, 31	4.7	6
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