Snezana Agatonovic-Kustrin

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113 3,008 3.4 5.36 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
103	Basic concepts of artificial neural network (ANN) modeling and its application in pharmaceutical research. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000 , 22, 717-27	3.5	681
102	A molecular approach in drug development for Alzheimer's disease. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 106, 553-565	7.5	106
101	Effects of alcohols and diols on the phase behaviour of quaternary systems. <i>International Journal of Pharmaceutics</i> , 2000 , 196, 141-5	6.5	97
100	Molecular aspects of phytoestrogen selective binding at estrogen receptors. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 1879-85	3.9	87
99	Theoretically-derived molecular descriptors important in human intestinal absorption. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 25, 227-37	3.5	64
98	Application of neural networks for response surface modeling in HPLC optimization. <i>Analytica Chimica Acta</i> , 1998 , 364, 265-273	6.6	56
97	Determination of polymorphic forms of ranitidine-HCl by DRIFTS and XRPD. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 25, 741-50	3.5	54
96	Bioavailability prediction based on molecular structure for a diverse series of drugs. <i>Pharmaceutical Research</i> , 2004 , 21, 68-82	4.5	51
95	Molecular descriptors that influence the amount of drugs transfer into human breast milk. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 29, 103-19	3.5	48
94	Prediction of drug transfer into human milk from theoretically derived descriptors. <i>Analytica Chimica Acta</i> , 2000 , 418, 181-195	6.6	48
93	Application of the artificial neural network in quantitative structure-gradient elution retention relationship of phenylthiocarbamyl amino acids derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 28, 581-90	3.5	45
92	Prediction of drug bioavailability based on molecular structure. <i>Analytica Chimica Acta</i> , 2003 , 485, 89-1	02 .6	42
91	Rapid evaluation and comparison of natural products and antioxidant activity in calendula, feverfew, and German chamomile extracts. <i>Journal of Chromatography A</i> , 2015 , 1385, 103-10	4.5	40
90	Prediction of drug absorption based on immobilized artificial membrane (IAM) chromatography separation and calculated molecular descriptors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 38, 472-8	3.5	38
89	Prediction of a stable microemulsion formulation for the oral delivery of a combination of antitubercular drugs using ANN methodology. <i>Pharmaceutical Research</i> , 2003 , 20, 1760-5	4.5	36
88	Powder diffractometric assay of two polymorphic forms of ranitidine hydrochloride. <i>International Journal of Pharmaceutics</i> , 1999 , 184, 107-14	6.5	36
87	Spectrophotometric study of diclofenac-Fe(III) complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997 , 16, 147-53	3.5	33

(2018-2008)

86	Analysing the crystal purity of mebendazole raw material and its stability in a suspension formulation. <i>International Journal of Pharmaceutics</i> , 2008 , 361, 245-50	6.5	32
85	Qualitative and quantitative high performance thin layer chromatography analysis of Calendula officinalis using high resolution plate imaging and artificial neural network data modelling. <i>Analytica Chimica Acta</i> , 2013 , 798, 103-8	6.6	31
84	Experimental design applied to a spectrophotometric study of a diclofenac sodiumEopper(II) complex. <i>Analyst, The</i> , 1991 , 116, 753-756	5	31
83	High performance thin layer chromatography (HPTLC) and high performance liquid chromatography (HPLC) for the qualitative and quantitative analysis of Calendula officinalis-advantages and limitations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 98, 52-9	3.5	29
82	ANN modeling of the penetration across a polydimethylsiloxane membrane from theoretically derived molecular descriptors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 26, 241-54	3.5	29
81	Essential oils and functional herbs for healthy aging. Neural Regeneration Research, 2019, 14, 441-445	4.5	29
80	Assessment of antioxidant activity in Victorian marine algal extracts using high performance thin-layer chromatography and multivariate analysis. <i>Journal of Chromatography A</i> , 2016 , 1468, 228-235	; 4·5	29
79	Analysis of phenolics in wine by high performance thin-layer chromatography with gradient elution and high resolution plate imaging. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 102, 93-9	3.5	27
78	Application of artificial neural networks in HPLC method development. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998 , 17, 69-76	3.5	27
77	Optimization of a stability-indicating HPLC method for the simultaneous determination of rifampicin, isoniazid, and pyrazinamide in a fixed-dose combination using artificial neural networks. <i>Journal of Chromatographic Science</i> , 2007 , 45, 38-44	1.4	27
76	Role of genetic algorithms and artificial neural networks in predicting the phase behavior of colloidal delivery systems. <i>Pharmaceutical Research</i> , 2001 , 18, 1049-55	4.5	26
75	Ranitidine hydrochloride X-ray assay using a neural network. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000 , 22, 985-92	3.5	26
74	Use of artificial neural networks to predict quaternery phase systems from limited experimental data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999 , 19, 443-52	3.5	26
73	High-Performance Thin-Layer Chromatography Hyphenated with Microchemical and Biochemical Derivatizations in Bioactivity Profiling of Marine Species. <i>Marine Drugs</i> , 2019 , 17,	6	25
72	The use of a response surface methodology on HPLC analysis of methyldopa, amiloride and hydrochlorothiazide in tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 24, 1019-25	3.5	25
71	High-performance thin-layer chromatography HPTLC-direct bioautography as a method of choice for alpha-amylase and antioxidant activity evaluation in marine algae. <i>Journal of Chromatography A</i> , 2017 , 1530, 197-203	4.5	24
70	Use of ANN modelling in structureretention relationships of diuretics in RP-HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999 , 21, 95-103	3.5	24
69	Phenolic acids contribution to antioxidant activities and comparative assessment of phenolic content in mango pulp and peel. <i>South African Journal of Botany</i> , 2018 , 116, 158-163	2.9	20

68	Compatibility studies between mannitol and omeprazole sodium isomers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 356-60	3.5	20
67	Solid state assay of ranitidine HCl as a bulk drug and as active ingredient in tablets using DRIFT spectroscopy with artificial neural networks. <i>Pharmaceutical Research</i> , 1999 , 16, 1477-82	4.5	19
66	Essential Oil Quality and Purity Evaluation via FT-IR Spectroscopy and Pattern Recognition Techniques. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7294	2.6	18
65	Molecular structural characteristics as determinants of estrogen receptor selectivity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 369-75	3.5	17
64	Multiple pharmacokinetic parameter prediction for a series of cephalosporins. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 552-9	3.9	16
63	Statistical optimization of a reversed-phase liquid chromatographic method for the analysis of amiloride and hydrochlorothiazide in tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000 , 22, 1-6	3.5	16
62	High-performance thin-layer chromatography linked with (bio)assays and FTIR-ATR spectroscopy as a method for discovery and quantification of bioactive components in native Australian plants. Journal of Pharmaceutical and Biomedical Analysis, 2020 , 184, 113208	3.5	15
61	Bioassay-guided identification of \(\pm\)mylase inhibitors in herbal extracts. <i>Journal of Chromatography A</i> , 2020 , 1620, 460970	4.5	14
60	Spectrophotometric determination of furosemide and its palladium(II) complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1990 , 8, 983-6	3.5	14
59	The Use of Fourier Transform Infrared (FTIR) Spectroscopy and Artificial Neural Networks (ANNs) to Assess Wine Quality. <i>Modern Chemistry & Applications</i> , 2013 , 01,		14
58	Development and validation of a simple high performance thin layer chromatography method combined with direct 1,1-diphenyl-2-picrylhydrazyl assay to quantify free radical scavenging activity in wine. <i>Food Chemistry</i> , 2016 , 197, 285-90	8.5	13
57	Chemometric characterization of wines according to their HPTLC fingerprints. <i>European Food Research and Technology</i> , 2017 , 243, 659-667	3.4	13
56	Application of diffuse reflectance infrared Fourier transform spectroscopy combined with artificial neural networks in analysing enantiomeric purity of terbutaline sulphate bulk drug. <i>Analytica Chimica Acta</i> , 2001 , 449, 157-165	6.6	13
55	Spectrophotometric determination of furosemide as its Fe(III) complex in pharmaceutical preparations. <i>Mikrochimica Acta</i> , 1990 , 100, 49-54	5.8	13
54	Comparison of high-performance and thin-layer chromatographic methods for the assay of lidocaine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1996 , 14, 1229-32	3.5	12
53	Models for skin and brain penetration of major components from essential oils used in aromatherapy for dementia patients. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 2402-24	471 ⁶	12
52	Quantification of polyphenolic antioxidants and free radical scavengers in marine algae. <i>Journal of Applied Phycology</i> , 2018 , 30, 113-120	3.2	11
51	Artificial neural networks to optimize formulation components of a fixed-dose combination of rifampicin, isoniazid and pyrazinamide in a microemulsion. <i>Current Drug Discovery Technologies</i> , 2005 , 2, 195-201	1.5	11

50	Analytical Strategies in Lipidomics for Discovery of Functional Biomarkers from Human Saliva. <i>Disease Markers</i> , 2019 , 2019, 6741518	3.2	11
49	In Silico Prediction of Oral Bioavailability 2007 , 699-724		10
48	Determination of enantiomeric composition of ibuprofen in solid state mixtures of the two by DRIFT spectroscopy. <i>Analytica Chimica Acta</i> , 2000 , 417, 31-39	6.6	10
47	HPTLC - Bioautographic methods for selective detection of the antioxidant and ⊞mylase inhibitory activity in plant extracts. <i>MethodsX</i> , 2018 , 5, 797-802	1.9	9
46	High-performance thin-layer chromatographic methods in the evaluation of the antioxidant and anti-hyperglycemic activity of Myrmecodia platytyrea as a promising opportunity in diabetes treatment. <i>Journal of Chromatography A</i> , 2017 , 1530, 192-196	4.5	9
45	Artificial neural network (ANN) based modelling for D1 like and D2 like dopamine receptor affinity and selectivity. <i>Medicinal Chemistry</i> , 2010 , 6, 259-70	1.8	9
44	Molecular structural characteristics of estrogen receptor modulators as determinants of estrogen receptor selectivity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008 , 8, 943-51	3.2	9
43	Anxiolytic Terpenoids and Aromatherapy for Anxiety and Depression. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1260, 283-296	3.6	9
42	HPTLC based approach for bioassay-guided evaluation of antidiabetic and neuroprotective effects of eight essential oils of the Lamiaceae family plants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 178, 112909	3.5	9
41	High-performance thin layer chromatography-based phytochemical and bioactivity characterisation of anticancer endophytic fungal extracts derived from marine plants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 193, 113702	3.5	9
40	Hybrid neural networks as tools for predicting the phase behavior of colloidal systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 415, 59-67	5.1	8
39	Quantification of phenylpropanoids in commercial Echinacea products using TLC with video densitometry as detection technique and ANN for data modelling. <i>Phytochemical Analysis</i> , 2013 , 24, 303	3. ³ 8 ⁴	8
38	Investigation of the pindolol-Fe(III) complex and its use in the spectrophotometric determination of pindolol in bulk drug and tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1991 , 9, 861-4	3.5	8
37	A screening method for cardiovascular active compounds in marine algae. <i>Journal of Chromatography A</i> , 2018 , 1550, 57-62	4.5	7
36	The use of UV-visible reflectance spectroscopy as an objective tool to evaluate pearl quality. <i>Marine Drugs</i> , 2012 , 10, 1459-75	6	7
35	Probing into the Molecular Requirements for Antioxidant Activity in Plant Phenolic Compounds Utilizing a Combined Strategy of PCA and ANN. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2017 , 20, 25-34	1.3	6
34	In vitro assessment of pediococci- and lactobacilli-induced cholesterol-lowering effect using digitally enhanced high-performance thin-layer chromatography and confocal microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1181-1192	4.4	5
33	The relationship between major polyphenolic acids and stigmasterol to antioxidant activity in different extracts of Myrmecodia platytyrea. <i>South African Journal of Botany</i> , 2018 , 115, 94-99	2.9	5

32	Migraine Headaches: Feverfew or Chamomile Leaves?. Modern Chemistry & Applications, 2015, 03,		5
31	Validation of an HPLC method for the simultaneous determination of eletriptan and UK 120.413. Journal of the Serbian Chemical Society, 2006 , 71, 1195-1205	0.9	5
30	QSAR: an in silico approach for predicting the partitioning of pesticides into breast milk. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013 , 16, 223-32	1.3	5
29	An improved extraction protocol for therapeutic dabigatran monitoring using HPLC-MS/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019 , 1130-1131, 121808	3.2	4
28	Pesticides as estrogen disruptors: QSAR for selective ER and ER binding of pesticides. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011 , 14, 85-92	1.3	4
27	Molecular structural characteristics important in drug-HSA binding. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2014 , 17, 879-90	1.3	4
26	Artificial Neural Network Modeling of Phytoestrogen Binding to Estrogen Receptors. <i>Letters in Drug Design and Discovery</i> , 2006 , 3, 436-442	0.8	4
25	HPTLC and ATR/FTIR Characterization of Antioxidants in Different Rosemary Extracts. <i>Molecules</i> , 2021 , 26,	4.8	4
24	A new integrated HPTLC - ATR/FTIR approach in marine algae bioprofiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 189, 113488	3.5	4
23	A new high-performance thin-layer chromatographic method for determining bile salt hydrolase activity. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1092, 145-151	3.2	3
22	Strategy for the development of a thermodynamically stable oral microemulsion. <i>Current Drug Discovery Technologies</i> , 2004 , 1, 165-71	1.5	3
21	Quantitative spectrophotometric assay of levodopa as its Pd(II) complex in water and dosage forms. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1991 , 9, 1157-60	3.5	3
20	Statistical Optimisation Applied to Spectrophotometric Study of Indomethacin - Fe(III) Complex. <i>Analytical Letters</i> , 1992 , 25, 883-897	2.2	3
19	HPTLC and FTIR Fingerprinting of Olive Leaves Extracts and ATR-FTIR Characterisation of Major Flavonoids and Polyphenolics. <i>Molecules</i> , 2021 , 26,	4.8	3
18	In silico modelling of pesticide aquatic toxicity. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2014 , 17, 808-18	1.3	3
17	The Power of HPTLC-ATR-FTIR Hyphenation in Bioactivity Analysis of Plant Extracts. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8232	2.6	3
16	Determination of free phenolic acids in plant-derived foods by high-performance thin-layer chromatography with direct 2,2?-diphenyl-1-picrylhydrazyl assay. <i>Journal of Planar Chromatography - Modern TLC</i> , 2016 , 29, 121-126	0.9	3
15	The Current and Potential Therapeutic Uses of Parthenolide. <i>Studies in Natural Products Chemistry</i> , 2018 , 58, 61-91	1.5	3

Data Mining in Drug Discovery and Design 2016, 181-193 2 14 Influence of sulfobutylether-beta-cyclodextrin on the stability of S- and R- omeprazole. Current 13 1.5 2 Drug Discovery Technologies, **2007**, 4, 192-7 Investigation of penbutolol-iron (III) complex and its spectrophotometric determination in tablets. 12 3.5 2 Journal of Pharmaceutical and Biomedical Analysis, 1990, 8, 739-42 Isolation of Bioactive Pentacyclic Triterpenoid Acids from Olive Tree Leaves with Flash 2.6 11 Chromatography. Applied Sciences (Switzerland), 2022, 12, 996 Modeling the effect of selected cyclodextrins on nifedipine solubility. Current Drug Discovery 10 2 1.5 Technologies, 2011, 8, 146-54 Chemical characterization of the photodegradation products of midazolam complexes with randomly methylated-Eyclodextrin by HPLC and LC-MS/MS. Journal of the Serbian Chemical 0.9 2 9 Society, **2016**, 81, 1037-1053 Characterisation of Hamylase inhibitors in marigold plants via bioassay-quided high-performance thin-layer chromatography and attenuated total reflectance-Fourier transform infrared 8 3.2 2 spectroscopy. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life The effect of extractive lacto-fermentation on the bioactivity and natural products content of 2 4.5 Pittosporum angustifolium (gumbi gumbi) extracts. Journal of Chromatography A, 2021, 1647, 462153 Quantitative structure-retention-pharmacokinetic relationship studies. Drug Metabolism Letters, 6 2.1 1 **2008**, 2, 130-7 The assessment and characterisation of drug plasma protein binding in the body using QSAR. 5 3.2 Mini-Reviews in Medicinal Chemistry, 2014, 14, 484-93 Investigation of Fe(III) chloride as a colour reagent for the spectrophotometric determination of 1.3 1 bumetanide in the pure form and in preparations. Acta Poloniae Pharmaceutica, 1992, 49, 9-12 Thin-Layer Chromatography | Fingerprint Analysis of Plant Materials 2017, 43-43 \circ Structure-retention relationships of diuretics in reversed-phase liquid chromatography. Biomedical 1.7 Chromatography, **2000**, 14, 41-3 Evaluation of high-performance thin-layer chromatography for the quantification of phenylpropanoids in commercialEchinaceaproducts. Journal of Planar Chromatography - Modern 0.9 *TLC*, **2014**, 27, 260-266