

Snezana Agatonovic-Kustrin

List of Publications by Year in descending order

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110
papers

3,632
citations

159585

30
h-index

149698

56
g-index

113
all docs

113
docs citations

113
times ranked

4108
citing authors

#	ARTICLE	IF	CITATIONS
1	Basic concepts of artificial neural network (ANN) modeling and its application in pharmaceutical research. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000, 22, 717-727.	2.8	1,124
2	A molecular approach in drug development for Alzheimer's disease. <i>Biomedicine and Pharmacotherapy</i> , 2018, 106, 553-565.	5.6	163
3	Molecular aspects of phytoestrogen selective binding at estrogen receptors. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1879-1885.	3.3	113
4	Effects of alcohols and diols on the phase behaviour of quaternary systems. <i>International Journal of Pharmaceutics</i> , 2000, 196, 141-145.	5.2	105
5	Theoretically-derived molecular descriptors important in human intestinal absorption. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001, 25, 227-237.	2.8	72
6	Application of neural networks for response surface modeling in HPLC optimization. <i>Analytica Chimica Acta</i> , 1998, 364, 265-273.	5.4	66
7	Bioavailability Prediction Based on Molecular Structure for a Diverse Series of Drugs. <i>Pharmaceutical Research</i> , 2004, 21, 68-82.	3.5	64
8	Molecular descriptors that influence the amount of drugs transfer into human breast milk. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 29, 103-119.	2.8	61
9	Determination of polymorphic forms of ranitidine-HCl by DRIFTS and XRPD. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001, 25, 741-750.	2.8	59
10	Essential Oil Quality and Purity Evaluation via FT-IR Spectroscopy and Pattern Recognition Techniques. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7294.	2.5	58
11	Prediction of drug transfer into human milk from theoretically derived descriptors. <i>Analytica Chimica Acta</i> , 2000, 418, 181-195.	5.4	57
12	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, 103-110.	3.7	53
13	Application of the artificial neural network in quantitative structure- α -gradient elution retention relationship of phenylthiocarbonyl amino acids derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 28, 581-590.	2.8	52
14	Essential oils and functional herbs for healthy aging. <i>Neural Regeneration Research</i> , 2019, 14, 441.	3.0	50
15	Prediction of drug bioavailability based on molecular structure. <i>Analytica Chimica Acta</i> , 2003, 485, 89-102.	5.4	44
16	High performance thin layer chromatography (HPTLC) and high performance liquid chromatography (HPLC) for the qualitative and quantitative analysis of <i>Calendula officinalis</i> Advantages and limitations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 98, 52-59.	2.8	44
17	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, 472-478.	2.8	43
18	Analysing the crystal purity of mebendazole raw material and its stability in a suspension formulation. <i>International Journal of Pharmaceutics</i> , 2008, 361, 245-250.	5.2	43

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19	Anxiolytic Terpenoids and Aromatherapy for Anxiety and Depression. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1260, 283-296.	1.6	41
20	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, 1760-1765.	3.5	40
21	Qualitative and quantitative high performance thin layer chromatography analysis of <i>Calendula officinalis</i> using high resolution plate imaging and artificial neural network data modelling. <i>Analytica Chimica Acta</i> , 2013, 798, 103-108.	5.4	40
22	Spectrophotometric study of diclofenac-Fe(III) complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997, 16, 147-153.	2.8	38
23	Powder diffractometric assay of two polymorphic forms of ranitidine hydrochloride. <i>International Journal of Pharmaceutics</i> , 1999, 184, 107-114.	5.2	37
24	Experimental design applied to a spectrophotometric study of a diclofenac sodium-copper(II) complex. <i>Analyst</i> , 1991, 116, 753-756.	3.5	36
25	Application of artificial neural networks in HPLC method development. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998, 17, 69-76.	2.8	36
26	High-performance thin-layer chromatography-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.	3.7	35
27	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.	3.7	34
28	High-Performance Thin-Layer Chromatography Hyphenated with Microchemical and Biochemical Derivatizations in Bioactivity Profiling of Marine Species. <i>Marine Drugs</i> , 2019, 17, 148.	4.6	34
29	The use of a response surface methodology on HPLC analysis of methyl dopa, amiloride and hydrochlorothiazide in tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001, 24, 1019-1025.	2.8	33
30	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, 93-99.	2.8	33
31	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.	2.5	33
32	ANN modeling of the penetration across a polydimethylsiloxane membrane from theoretically derived molecular descriptors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001, 26, 241-254.	2.8	32
33	Role of genetic algorithms and artificial neural networks in predicting the phase behavior of colloidal delivery systems. , 2001, 18, 1049-1055.		30
34	Use of artificial neural networks to predict quaternary phase systems from limited experimental data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 19, 443-452.	2.8	29
35	Ranitidine hydrochloride X-ray assay using a neural network. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000, 22, 985-992.	2.8	29
36	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	28

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37	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, 2402-2411.	3.5	28
38	Use of ANN modelling in structure-retention relationships of diuretics in RP-HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 21, 95-103.	2.8	26
39	Multiple Pharmacokinetic Parameter Prediction for a Series of Cephalosporins. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 552-559.	3.3	26
40	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, 1477-1482.	3.5	24
41	Compatibility studies between mannitol and omeprazole sodium isomers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 356-360.	2.8	24
42	Bioassay-guided identification of α -amylase inhibitors in herbal extracts. <i>Journal of Chromatography A</i> , 2020, 1620, 460970.	3.7	23
43	In Silico Prediction of Oral Bioavailability. , 2007, , 699-724.		21
44	The Use of Fourier Transform Infrared (FTIR) Spectroscopy and Artificial Neural Networks (ANNs) to Assess Wine Quality. <i>Modern Chemistry & Applications</i> , 2013, 01, .	0.2	21
45	Molecular structural characteristics as determinants of estrogen receptor selectivity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 369-375.	2.8	20
46	The relationship between major polyphenolic acids and stigmasterol to antioxidant activity in different extracts of <i>Myrmecodia platytyrea</i> . <i>South African Journal of Botany</i> , 2018, 115, 94-99.	2.5	19
47	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.	2.8	19
48	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 184, 113208.	2.8	19
49	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.	2.8	18
50	HPTLC - Bioautographic methods for selective detection of the antioxidant and α -amylase inhibitory activity in plant extracts. <i>MethodsX</i> , 2018, 5, 797-802.	1.6	17
51	Analytical Strategies in Lipidomics for Discovery of Functional Biomarkers from Human Saliva. <i>Disease Markers</i> , 2019, 2019, 1-11.	1.3	17
52	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.	2.8	16
53	Spectrophotometric determination of furosemide as its Fe(III) complex in pharmaceutical preparations. <i>Mikrochimica Acta</i> , 1990, 100, 49-54.	5.0	15
54	Spectrophotometric determination of furosemide and its palladium(II) complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1990, 8, 983-986.	2.8	15

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55	Comparison of high-performance and thin-layer chromatographic methods for the assay of lidocaine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1996, 14, 1229-1232.	2.8	14
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.	5.4	14
57	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.	1.2	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, 285-290.	8.2	14
59	High-performance thin-layer chromatographic methods in the evaluation of the antioxidant and anti-hyperglycemic activity of <i>Myrmecodia platytyrea</i> as a promising opportunity in diabetes treatment. <i>Journal of Chromatography A</i> , 2017, 1530, 192-196.	3.7	14
60	Chemometric characterization of wines according to their HPTLC fingerprints. <i>European Food Research and Technology</i> , 2017, 243, 659-667.	3.3	14
61	Molecular Structural Characteristics of Estrogen Receptor Modulators as Determinants of Estrogen Receptor Selectivity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 943-951.	2.4	13
62	A new integrated HPTLC - ATR/FTIR approach in marine algae bioprofiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 189, 113488.	2.8	13
63	HPTLC and ATR/FTIR Characterization of Antioxidants in Different Rosemary Extracts. <i>Molecules</i> , 2021, 26, 6064.	3.8	13
64	HPTLC and FTIR Fingerprinting of Olive Leaves Extracts and ATR-FTIR Characterisation of Major Flavonoids and Polyphenolics. <i>Molecules</i> , 2021, 26, 6892.	3.8	13
65	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.	5.4	12
66	The Current and Potential Therapeutic Uses of Parthenolide. <i>Studies in Natural Products Chemistry</i> , 2018, 58, 61-91.	1.8	12
67	A screening method for cardiovascular active compounds in marine algae. <i>Journal of Chromatography A</i> , 2018, 1550, 57-62.	3.7	11
68	Quantification of polyphenolic antioxidants and free radical scavengers in marine algae. <i>Journal of Applied Phycology</i> , 2018, 30, 113-120.	2.8	11
69	Hyphenated TLC as a Tool in the Effect-Directed Discovery of Bioactive Natural Products. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1123.	2.5	11
70	Validation of an HPLC method for the simultaneous determination of eletriptan and UK 120.413. <i>Journal of the Serbian Chemical Society</i> , 2006, 71, 1195-1205.	0.8	10
71	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.	4.7	10
72	Quantification of Phenylpropanoids in Commercial <i>Echinacea</i> Products Using TLC with Video Densitometry as Detection Technique and ANN for Data Modelling. <i>Phytochemical Analysis</i> , 2013, 24, 303-308.	2.4	10

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73	Artificial Neural Network (ANN) Based Modelling for D1 Like and D2 Like Dopamine Receptor Affinity and Selectivity. <i>Medicinal Chemistry</i> , 2010, 6, 259-270.	1.5	9
74	The Use of UV-Visible Reflectance Spectroscopy as an Objective Tool to Evaluate Pearl Quality. <i>Marine Drugs</i> , 2012, 10, 1459-1475.	4.6	9
75	QSAR: An In Silico Approach for Predicting the Partitioning of Pesticides into Breast Milk. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013, 16, 223-232.	1.1	9
76	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, 861-864.	2.8	8
77	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.	1.2	8
78	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.	3.7	7
79	The Power of HPTLC-ATR-FTIR Hyphenation in Bioactivity Analysis of Plant Extracts. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8232.	2.5	7
80	Characterisation of α -amylase inhibitors in marigold plants via bioassay-guided high-performance thin-layer chromatography and attenuated total reflectance-Fourier transform infrared spectroscopy. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1173, 122676.	2.3	7
81	Pesticides as Estrogen Disruptors: QSAR for Selective ER α ; and ER β ; Binding of Pesticides. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011, 14, 85-92.	1.1	6
82	Migraine Headaches: Feverfew or Chamomile Leaves?. <i>Modern Chemistry & Applications</i> , 2015, 03, .	0.2	6
83	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.	1.1	6
84	Isolation of Bioactive Pentacyclic Triterpenoid Acids from Olive Tree Leaves with Flash Chromatography. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 996.	2.5	6
85	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, 1157-1160.	2.8	5
86	The effect of extractive lacto-fermentation on the bioactivity and natural products content of <i>Pittosporum angustifolium</i> (gumbi gumbi) extracts. <i>Journal of Chromatography A</i> , 2021, 1647, 462153.	3.7	5
87	In Silico Modelling of Pesticide Aquatic Toxicity. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2014, 17, 808-818.	1.1	5
88	The bioprofiling of antibacterials in olive leaf extracts via thin layer chromatography-effect directed analysis (TLC-EDA). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 219, 114916.	2.8	5
89	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.	2.3	4
90	An improved extraction protocol for therapeutic dabigatran monitoring using HPLC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1130-1131, 121808.	2.3	4

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91	Molecular Structural Characteristics Important in Drug-HSA Binding. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2015, 17, 879-890.	1.1	4
92	Artificial Neural Network Modeling of Phytoestrogen Binding to Estrogen Receptors. <i>Letters in Drug Design and Discovery</i> , 2006, 3, 436-442.	0.7	4
93	Investigation of penbutolol-iron(III) complex and its spectrophotometric determination in tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1990, 8, 739-742.	2.8	3
94	Statistical Optimisation Applied to Spectrophotometric Study of Indomethacin - Fe(III) Complex. <i>Analytical Letters</i> , 1992, 25, 883-897.	1.8	3
95	Strategy for the Development of a Thermodynamically Stable Oral Microemulsion. <i>Current Drug Discovery Technologies</i> , 2004, 1, 165-171.	1.2	3
96	Chemical characterization of the photodegradation products of midazolam complexes with randomly methylated- β -cyclodextrin by HPLC and LC-MS/MS. <i>Journal of the Serbian Chemical Society</i> , 2016, 81, 1037-1053.	0.8	3
97	Statistical optimisation applied to the spectrophotometric study of the tolmetin-Fe(III) complex. <i>Talanta</i> , 1991, 38, 1347-1352.	5.5	2
98	Influence of Sulfobutylether- β -Cyclodextrin on the Stability of S- and R-omeprazole. <i>Current Drug Discovery Technologies</i> , 2007, 4, 192-197.	1.2	2
99	Data Mining in Drug Discovery and Design. , 2016, , 181-193.		2
100	Modeling the Effect of Selected Cyclodextrins on Nifedipine Solubility. <i>Current Drug Discovery Technologies</i> , 2011, 8, 146-154.	1.2	2
101	Investigation of Fe(III) chloride as a colour reagent for the spectrophotometric determination of bumetanide in the pure form and in preparations. <i>Acta Poloniae Pharmaceutica</i> , 1992, 49, 9-12.	0.1	2
102	Quantitative Structure-Retention-Pharmacokinetic Relationship Studies. <i>Drug Metabolism Letters</i> , 2008, 2, 130-137.	0.8	1
103	Thin-Layer Chromatography: Fingerprint Analysis of Plant Materials. , 2017, , 43-43.		1
104	Quantitative errors and uncertainty in high-performance thin-layer chromatographic method for the quality assessment of <i>Calendula officinalis</i> plant extracts. <i>Journal of Planar Chromatography - Modern TLC</i> , 2015, 28, 213-217.	1.2	1
105	The Assessment and Characterisation of Drug Plasma Protein Binding in the Body Using QSAR. <i>Mini-Reviews in Medicinal Chemistry</i> , 2014, 14, 484-493.	2.4	1
106	Essential Oils and Cognitive Performance. <i>Frontiers in Natural Product Chemistry</i> , 2018, , 91-118.	0.2	1
107	Structure-retention relationships of diuretics in reversed-phase liquid chromatography. , 2000, 14, 41-43.		0
108	Assessing the Quality of Various Preparations of <i>Calendula officinalis</i> using High Performance Thin Layer Chromatography. <i>Modern Chemistry & Applications</i> , 2013, 01, .	0.2	0

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109	Evaluation of high-performance thin-layer chromatography for the quantification of phenylpropanoids in commercial <i>Echinacea</i> products. <i>Journal of Planar Chromatography - Modern TLC</i> , 2014, 27, 260-266.	1.2	0
110	<sc>QSAR</sc> analysis of the partitioning of terpenes and terpenoids into human milk. <i>Flavour and Fragrance Journal</i> , 0, , .	2.6	0