Snezana Agatonovic-Kustrin

List of Publications by Year
in descending order

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	Isolation of Bioactive Pentacyclic Triterpenoid Acids from Olive Tree Leaves with Flash Chromatography. Applied Sciences (Switzerland), 2022, 12, 996.	2.5	6
2	The bioprofiling of antibacterials in olive leaf extracts via thin layer chromatography-effect directed analysis (TLC-EDA). Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114916.	2.8	5
3	High-performance thin layer chromatography-based phytochemical and bioactivity characterisation of anticancer endophytic fungal extracts derived from marine plants. Journal of Pharmaceutical and Biomedical Analysis, 2021, 193, 113702.	2.8	16
4	Characterisation of Î±-amylase inhibitors in marigold plants via bioassay-guided high-performance thin-layer chromatography and attenuated total reflectanceâ€“Fourier transform infrared spectroscopy. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1173, 122676.	2.3	7
5	The effect of extractive lacto-fermentation on the bioactivity and natural products content of Pittosporum angustifolium (gumbi gumbi) extracts. Journal of Chromatography A, 2021, 1647, 462153.	3.7	5
6	HPTLC and ATR/FTIR Characterization of Antioxidants in Different Rosemary Extracts. Molecules, 2021, 26, 6064.	3.8	13
7	HPTLC and FTIR Fingerprinting of Olive Leaves Extracts and ATR-FTIR Characterisation of Major Flavonoids and Polyphenolics. Molecules, 2021, 26, 6892.	3.8	13
8	Models for skin and brain penetration of major components from essential oils used in aromatherapy for dementia patients. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2402-2411.	3.5	28
9	HPTLC based approach for bioassay-guided evaluation of antidiabetic and neuroprotective effects of eight essential oils of the Lamiaceae family plants. Journal of Pharmaceutical and Biomedical Analysis, 2020, 178, 112909.	2.8	19
10	The Power of HPTLC-ATR-FTIR Hyphenation in Bioactivity Analysis of Plant Extracts. Applied Sciences (Switzerland), 2020, 10, 8232.	2.5	7
11	A new integrated HPTLC - ATR/FTIR approach in marine algae bioprofiling. Journal of Pharmaceutical and Biomedical Analysis, 2020, 189, 113488.	2.8	13
12	Essential Oil Quality and Purity Evaluation via FT-IR Spectroscopy and Pattern Recognition Techniques. Applied Sciences (Switzerland), 2020, 10, 7294.	2.5	58
13	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.	2.8	19
14	Hyphenated TLC as a Tool in the Effect-Directed Discovery of Bioactive Natural Products. Applied Sciences (Switzerland), 2020, 10, 1123.	2.5	11
15	Bioassay-guided identification of Î±-amylase inhibitors in herbal extracts. Journal of Chromatography A, 2020, 1620, 460970.	3.7	23
16	Anxiolytic Terpenoids and Aromatherapy for Anxiety and Depression. Advances in Experimental Medicine and Biology, 2020, 1260, 283-296.	1.6	41
17	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.	2.3	4
18	In vitro assessment of pediococci- and lactobacilli-induced cholesterol-lowering effect using digitally enhanced high-performance thin-layer chromatography and confocal microscopy. Analytical and Bioanalytical Chemistry, 2019, 411, 1181-1192.	3.7	7

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19	High-Performance Thin-Layer Chromatography Hyphenated with Microchemical and Biochemical Derivatizations in Bioactivity Profiling of Marine Species. Marine Drugs, 2019, 17, 148.	4.6	34
20	Analytical Strategies in Lipidomics for Discovery of Functional Biomarkers from Human Saliva. Disease Markers, 2019, 2019, 1-11.	1.3	17
21	Essential oils and functional herbs for healthy aging. Neural Regeneration Research, 2019, 14, 441.	3.0	50
22	Phenolic acids contribution to antioxidant activities and comparative assessment of phenolic content in mango pulp and peel. South African Journal of Botany, 2018, 116, 158-163.	2.5	33
23	The relationship between major polyphenolic acids and stigmasterol to antioxidant activity in different extracts of Myrmecodia platytyrea. South African Journal of Botany, 2018, 115, 94-99.	2.5	19
24	A screening method for cardiovascular active compounds in marine algae. Journal of Chromatography A, 2018, 1550, 57-62.	3.7	11
25	Quantification of polyphenolic antioxidants and free radical scavengers in marine algae. Journal of Applied Phycology, 2018, 30, 113-120.	2.8	11
26	The Current and Potential Therapeutic Uses of Parthenolide. Studies in Natural Products Chemistry, 2018, 58, 61-91.	1.8	12
27	HPTLC â€“ Bioautographic methods for selective detection of the antioxidant and a-amylase inhibitory activity in plant extracts. MethodsX, 2018, 5, 797-802.	1.6	17
28	A molecular approach in drug development for Alzheimerâ€™s disease. Biomedicine and Pharmacotherapy, 2018, 106, 553-565.	5.6	163
29	A new high-performance thin-layer chromatographic method for determining bile salt hydrolase activity. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1092, 145-151.	2.3	4
30	Essential Oils and Cognitive Performance. Frontiers in Natural Product Chemistry, 2018, , 91-118.	0.2	1
31	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. Journal of Chromatography A, 2017, 1530, 192-196.	3.7	14
32	High-performance thin-layer chromatography-direct bioautography as a method of choice for alpha-amylase and antioxidant activity evaluation in marine algae. Journal of Chromatography A, 2017, 1530, 197-203.	3.7	35
33	Chemometric characterization of wines according to their HPTLC fingerprints. European Food Research and Technology, 2017, 243, 659-667.	3.3	14
34	Thin-Layer Chromatography: Fingerprint Analysis of Plant Materials. , 2017, , 43-43.		1
35	Probing into the Molecular Requirements for Antioxidant Activity in Plant Phenolic Compounds Utilizing a Combined Strategy of PCA and ANN. Combinatorial Chemistry and High Throughput Screening, 2017, 20, 25-34.	1.1	6
36	Determination of free phenolic acids in plant-derived foods by high-performance thin-layer chromatography with direct 2,2â€²-diphenyl-1-picrylhydrazyl assay. Journal of Planar Chromatography - Modern TLC, 2016, 29, 121-126.	1.2	8

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37	Assessment of antioxidant activity in Victorian marine algal extracts using high performance thin-layer chromatography and multivariate analysis. Journal of Chromatography A, 2016, 1468, 228-235.	3.7	34
38	Data Mining in Drug Discovery and Design. , 2016, , 181-193.		2
39	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. Food Chemistry, 2016, 197, 285-290.	8.2	14
40	Chemical characterization of the photodegradation products of midazolam complexes with randomly methylated-Î²-cyclodextrin by HPLC and LC-MS/MS. Journal of the Serbian Chemical Society, 2016, 81, 1037-1053.	0.8	3
41	Migraine Headaches: Feverfew or Chamomile Leaves?. Modern Chemistry & Applications, 2015, 03, .	0.2	6
42	Rapid evaluation and comparison of natural products and antioxidant activity in calendula, feverfew, and German chamomile extracts. Journal of Chromatography A, 2015, 1385, 103-110.	3.7	53
43	Analysis of phenolics in wine by high performance thin-layer chromatography with gradient elution and high resolution plate imaging. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 93-99.	2.8	33
44	Quantitative errors and uncertainty in high-performance thin-layer chromatographic method for the quality assessment ofCalendula offcinalisplant extracts. Journal of Planar Chromatography - Modern TLC, 2015, 28, 213-217.	1.2	1
45	Molecular Structural Characteristics Important in Drug-HSA Binding. Combinatorial Chemistry and High Throughput Screening, 2015, 17, 879-890.	1.1	4
46	High performance thin layer chromatography (HPTLC) and high performance liquid chromatography (HPLC) for the qualitative and quantitative analysis of Calendula officinalisâ€"Advantages and limitations. Journal of Pharmaceutical and Biomedical Analysis, 2014, 98, 52-59.	2.8	44
47	In Silico Modelling of Pesticide Aquatic Toxicity. Combinatorial Chemistry and High Throughput Screening, 2014, 17, 808-818.	1.1	5
48	The Assessment and Characterisation of Drug Plasma Protein Binding in the Body Using QSAR. Mini-Reviews in Medicinal Chemistry, 2014, 14, 484-493.	2.4	1
49	Evaluation of high-performance thin-layer chromatography for the quantification of phenylpropanoids in commercialEchinaceaproducts. Journal of Planar Chromatography - Modern TLC, 2014, 27, 260-266.	1.2	0
50	Qualitative and quantitative high performance thin layer chromatography analysis of Calendula officinalis using high resolution plate imaging and artificial neural network data modelling. Analytica Chimica Acta, 2013, 798, 103-108.	5.4	40
51	Quantification of Phenylpropanoids in Commercial Echinacea Products Using TLC with Video Densitometry as Detection Technique and ANN for Data Modelling. Phytochemical Analysis, 2013, 24, 303-308.	2.4	10
52	Assessing the Quality of Various Preparations of Calendula officinalis using High Performance Thin Layer Chromatography. Modern Chemistry & Applications, 2013, 01, .	0.2	0
53	QSAR: An In Silico Approach for Predicting the Partitioning of Pesticides into Breast Milk. Combinatorial Chemistry and High Throughput Screening, 2013, 16, 223-232.	1.1	9
54	The Use of Fourier Transform Infrared (FTIR) Spectroscopy and Artificial Neural Networks (ANNs) to Assess Wine Quality. Modern Chemistry & Applications, 2013, 01, .	0.2	21

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55	Hybrid neural networks as tools for predicting the phase behavior of colloidal systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 59-67.	4.7	10
56	The Use of UV-Visible Reflectance Spectroscopy as an Objective Tool to Evaluate Pearl Quality. Marine Drugs, 2012, 10, 1459-1475.	4.6	9
57	Pesticides as Estrogen Disruptors: QSAR for Selective ERα and ERβ Binding of Pesticides. Combinatorial Chemistry and High Throughput Screening, 2011, 14, 85-92.	1.1	6
58	Modeling the Effect of Selected Cyclodextrins on Nifedipine Solubility. Current Drug Discovery Technologies, 2011, 8, 146-154.	1.2	2
59	Artificial Neural Network (ANN) Based Modelling for D1 Like and D2 Like Dopamine Receptor Affinity and Selectivity. Medicinal Chemistry, 2010, 6, 259-270.	1.5	9
60	Compatibility studies between mannitol and omeprazole sodium isomers. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 356-360.	2.8	24
61	Molecular structural characteristics as determinants of estrogen receptor selectivity. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 369-375.	2.8	20
62	Analysing the crystal purity of mebendazole raw material and its stability in a suspension formulation. International Journal of Pharmaceutics, 2008, 361, 245-250.	5.2	43
63	Molecular Structural Characteristics of Estrogen Receptor Modulators as Determinants of Estrogen Receptor Selectivity. Mini-Reviews in Medicinal Chemistry, 2008, 8, 943-951.	2.4	13
64	Quantitative Structure-Retention-Pharmacokinetic Relationship Studies. Drug Metabolism Letters, 2008, 2, 130-137.	0.8	1
65	Influence of Sulfobutylether-β-Cyclodextrin on the Stability of S- and Romeprazole. Current Drug Discovery Technologies, 2007, 4, 192-197.	1.2	2
66	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. Journal of Chromatographic Science, 2007, 45, 38-44.	1.4	28
67	In Silico Prediction of Oral Bioavailability. , 2007, , 699-724.		21
68	Molecular aspects of phytoestrogen selective binding at estrogen receptors. Journal of Pharmaceutical Sciences, 2007, 96, 1879-1885.	3.3	113
69	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.	0.8	10
70	Artificial Neural Network Modeling of Phytoestrogen Binding to Estrogen Receptors. Letters in Drug Design and Discovery, 2006, 3, 436-442.	0.7	4
71	Prediction of drug absorption based on immobilized artificial membrane (IAM) chromatography separation and calculated molecular descriptors. Journal of Pharmaceutical and Biomedical Analysis, 2005, 38, 472-478.	2.8	43
72	Artificial Neural Networks to Optimize Formulation Components of a Fixed- Dose Combination of Rifampicin, Isoniazid and Pyrazinamide in a Microemulsion. Current Drug Discovery Technologies, 2005, 2, 195-201.	1.2	14

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73	Bioavailability Prediction Based on Molecular Structure for a Diverse Series of Drugs. Pharmaceutical Research, 2004, 21, 68-82.	3.5	64
74	Strategy for the Development of a Thermodynamically Stable Oral Microemulsion. Current Drug Discovery Technologies, 2004, 1, 165-171.	1.2	3
75	Prediction of a Stable Microemulsion Formulation for the Oral Delivery of a Combination of Antitubercular Drugs Using ANN Methodology. Pharmaceutical Research, 2003, 20, 1760-1765.	3.5	40
76	Multiple Pharmacokinetic Parameter Prediction for a Series of Cephalosporins. Journal of Pharmaceutical Sciences, 2003, 92, 552-559.	3.3	26
77	Prediction of drug bioavailability based on molecular structure. Analytica Chimica Acta, 2003, 485, 89-102.	5.4	44
78	Application of the artificial neural network in quantitative structureâ€“gradient elution retention relationship of phenylthiocarbamyl amino acids derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2002, 28, 581-590.	2.8	52
79	Molecular descriptors that influence the amount of drugs transfer into human breast milk. Journal of Pharmaceutical and Biomedical Analysis, 2002, 29, 103-119.	2.8	61
80	Theoretically-derived molecular descriptors important in human intestinal absorption. Journal of Pharmaceutical and Biomedical Analysis, 2001, 25, 227-237.	2.8	72
81	The use of a response surface methodology on HPLC analysis of methyldopa, amiloride and hydrochlorothiazide in tablets. Journal of Pharmaceutical and Biomedical Analysis, 2001, 24, 1019-1025.	2.8	33
82	Determination of polymorphic forms of ranitidineâ€“HCl by DRIFTS and XRPD. Journal of Pharmaceutical and Biomedical Analysis, 2001, 25, 741-750.	2.8	59
83	ANN modeling of the penetration across a polydimethylsiloxane membrane from theoretically derived molecular descriptors. Journal of Pharmaceutical and Biomedical Analysis, 2001, 26, 241-254.	2.8	32
84	Application of diffuse reflectance infrared Fourier transform spectroscopy combined with artificial neural networks in analysing enantiomeric purity of terbutaline sulphate bulk drug. Analytica Chimica Acta, 2001, 449, 157-165.	5.4	14
85	Role of genetic algorithms and artificial neural networks in predicting the phase behavior of colloidal delivery systems. , 2001, 18, 1049-1055.		30
86	Structure-retention relationships of diuretics in reversed-phase liquid chromatography. , 2000, 14, 41-43.		0
87	Determination of enantiomeric composition of ibuprofen in solid state mixtures of the two by DRIFT spectroscopy. Analytica Chimica Acta, 2000, 417, 31-39.	5.4	12
88	Effects of alcohols and diols on the phase behaviour of quaternary systems. International Journal of Pharmaceutics, 2000, 196, 141-145.	5.2	105
89	Ranitidine hydrochloride X-ray assay using a neural network. Journal of Pharmaceutical and Biomedical Analysis, 2000, 22, 985-992.	2.8	29
90	Statistical optimization of a reversed-phase liquid chromatographic method for the analysis of amiloride and hydrochlorothiazide in tablets. Journal of Pharmaceutical and Biomedical Analysis, 2000, 22, 1-6.	2.8	18

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91	Basic concepts of artificial neural network (ANN) modeling and its application in pharmaceutical research. Journal of Pharmaceutical and Biomedical Analysis, 2000, 22, 717-727.	2.8	1,124
92	Prediction of drug transfer into human milk from theoretically derived descriptors. Analytica Chimica Acta, 2000, 418, 181-195.	5.4	57
93	Powder diffractometric assay of two polymorphic forms of ranitidine hydrochloride. International Journal of Pharmaceutics, 1999, 184, 107-114.	5.2	37
94	Use of artificial neural networks to predict quaternery phase systems from limited experimental data. Journal of Pharmaceutical and Biomedical Analysis, 1999, 19, 443-452.	2.8	29
95	Use of ANN modelling in structureâ€“retention relationships of diuretics in RP-HPLC. Journal of Pharmaceutical and Biomedical Analysis, 1999, 21, 95-103.	2.8	26
96	Solid state assay of ranitidine HCl as a bulk drug and as active ingredient in tablets using DRIFT spectroscopy with artificial neural networks. Pharmaceutical Research, 1999, 16, 1477-1482.	3.5	24
97	Application of neural networks for response surface modeling in HPLC optimization. Analytica Chimica Acta, 1998, 364, 265-273.	5.4	66
98	Application of artificial neural networks in HPLC method development. Journal of Pharmaceutical and Biomedical Analysis, 1998, 17, 69-76.	2.8	36
99	Spectrophotometric study of diclofenac-Fe(III) complex. Journal of Pharmaceutical and Biomedical Analysis, 1997, 16, 147-153.	2.8	38
100	Comparision of high-performance and thin-layer chromatographic methods for the assay of lidocaine. Journal of Pharmaceutical and Biomedical Analysis, 1996, 14, 1229-1232.	2.8	14
101	Statistical Optimisation Applied to Spectrophotometric Study of Indomethacin - Fe(III) Complex. Analytical Letters, 1992, 25, 883-897.	1.8	3
102	Investigation of Fe(III) chloride as a colour reagent for the spectrophotometric determination of bumetanide in the pure form and in preparations. Acta Poloniae Pharmaceutica, 1992, 49, 9-12.	0.1	2
103	Experimental design applied to a spectrophotometric study of a diclofenac sodiumâ€“copper(II) complex. Analyst, The, 1991, 116, 753-756.	3.5	36
104	Statistical optimisation applied to the spectrophotometric study of the tolmetinâ€”Fe(III) complex. Talanta, 1991, 38, 1347-1352.	5.5	2
105	Investigation of the pindololâ€”Fe(III) complex and its use in the spectrophotometric determination of pindolol in bulk drug and tablets. Journal of Pharmaceutical and Biomedical Analysis, 1991, 9, 861-864.	2.8	8
106	Quantitative spectrophotometric assay of levodopa as its Pd(II) complex in water and dosage forms. Journal of Pharmaceutical and Biomedical Analysis, 1991, 9, 1157-1160.	2.8	5
107	Spectrophotometric determination of furosemide as its Fe(III) complex in pharmaceutical preparations. Mikrochimica Acta, 1990, 100, 49-54.	5.0	15
108	Investigation of penbutololâ€”iron(III) complex and its spectrophotometric determination in tablets. Journal of Pharmaceutical and Biomedical Analysis, 1990, 8, 739-742.	2.8	3

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109	Spectrophotometric determination of furosemide and its palladium(II) complex. Journal of Pharmaceutical and Biomedical Analysis, 1990, 8, 983-986.	2.8	15
110	<scp>QSAR</scp> analysis of the partitioning of terpenes and terpenoids into human milk. Flavour and Fragrance Journal, 0, , .	2.6	0