

# Snezana Agatonovic-Kustrin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103 papers	2,552 citations	27 h-index	47 g-index
113 ext. papers	3,008 ext. citations	3.4 avg, IF	5.36 L-index

#	Paper	IF	Citations
103	Isolation of Bioactive Pentacyclic Triterpenoid Acids from Olive Tree Leaves with Flash Chromatography. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 996	2.6	2
102	HPTLC and FTIR Fingerprinting of Olive Leaves Extracts and ATR-FTIR Characterisation of Major Flavonoids and Polyphenolics. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
101	HPTLC and ATR/FTIR Characterization of Antioxidants in Different Rosemary Extracts. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
100	Characterisation of $\alpha$ -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> , <b>2021</b> , 1173, 122676	3.2	2
99	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> , <b>2021</b> , 1647, 462153	4.5	2
98	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> , <b>2021</b> , 193, 113702	3.5	9
97	Essential Oil Quality and Purity Evaluation via FT-IR Spectroscopy and Pattern Recognition Techniques. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7294	2.6	18
96	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> , <b>2020</b> , 184, 113208	3.5	15
95	Bioassay-guided identification of $\alpha$ -amylase inhibitors in herbal extracts. <i>Journal of Chromatography A</i> , <b>2020</b> , 1620, 460970	4.5	14
94	Anxiolytic Terpenoids and Aromatherapy for Anxiety and Depression. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1260, 283-296	3.6	9
93	The Power of HPTLC-ATR-FTIR Hyphenation in Bioactivity Analysis of Plant Extracts. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8232	2.6	3
92	A new integrated HPTLC - ATR/FTIR approach in marine algae bioprofiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 189, 113488	3.5	4
91	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> , <b>2020</b> , 38, 2402-2411	3.6	12
90	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> , <b>2020</b> , 178, 112909	3.5	9
89	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> , <b>2019</b> , 1130-1131, 121808	3.2	4
88	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> , <b>2019</b> , 411, 1181-1192	4.4	5
87	High-Performance Thin-Layer Chromatography Hyphenated with Microchemical and Biochemical Derivatizations in Bioactivity Profiling of Marine Species. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	25

86	Essential oils and functional herbs for healthy aging. <i>Neural Regeneration Research</i> , <b>2019</b> , 14, 441-445	4.5	29
85	Analytical Strategies in Lipidomics for Discovery of Functional Biomarkers from Human Saliva. <i>Disease Markers</i> , <b>2019</b> , 2019, 6741518	3.2	11
84	Phenolic acids contribution to antioxidant activities and comparative assessment of phenolic content in mango pulp and peel. <i>South African Journal of Botany</i> , <b>2018</b> , 116, 158-163	2.9	20
83	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> , <b>2018</b> , 115, 94-99	2.9	5
82	A screening method for cardiovascular active compounds in marine algae. <i>Journal of Chromatography A</i> , <b>2018</b> , 1550, 57-62	4.5	7
81	Quantification of polyphenolic antioxidants and free radical scavengers in marine algae. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 113-120	3.2	11
80	HPTLC - Bioautographic methods for selective detection of the antioxidant and $\alpha$ -amylase inhibitory activity in plant extracts. <i>MethodsX</i> , <b>2018</b> , 5, 797-802	1.9	9
79	A molecular approach in drug development for Alzheimer's disease. <i>Biomedicine and Pharmacotherapy</i> , <b>2018</b> , 106, 553-565	7.5	106
78	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> , <b>2018</b> , 1092, 145-151	3.2	3
77	The Current and Potential Therapeutic Uses of Parthenolide. <i>Studies in Natural Products Chemistry</i> , <b>2018</b> , 58, 61-91	1.5	3
76	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> , <b>2017</b> , 1530, 192-196	4.5	9
75	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> , <b>2017</b> , 1530, 197-203	4.5	24
74	Chemometric characterization of wines according to their HPTLC fingerprints. <i>European Food Research and Technology</i> , <b>2017</b> , 243, 659-667	3.4	13
73	Thin-Layer Chromatography   Fingerprint Analysis of Plant Materials <b>2017</b> , 43-43		0
72	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> , <b>2017</b> , 20, 25-34	1.3	6
71	Data Mining in Drug Discovery and Design <b>2016</b> , 181-193		2
70	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> , <b>2016</b> , 197, 285-90	8.5	13
69	Chemical characterization of the photodegradation products of midazolam complexes with randomly methylated- $\beta$ -cyclodextrin by HPLC and LC-MS/MS. <i>Journal of the Serbian Chemical Society</i> , <b>2016</b> , 81, 1037-1053	0.9	2

68	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> , <b>2016</b> , 29, 121-126	0.9	3
67	Assessment of antioxidant activity in Victorian marine algal extracts using high performance thin-layer chromatography and multivariate analysis. <i>Journal of Chromatography A</i> , <b>2016</b> , 1468, 228-235	4.5	29
66	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> , <b>2015</b> , 102, 93-9	3.5	27
65	Migraine Headaches: Feverfew or Chamomile Leaves?. <i>Modern Chemistry &amp; Applications</i> , <b>2015</b> , 03,		5
64	Rapid evaluation and comparison of natural products and antioxidant activity in calendula, feverfew, and German chamomile extracts. <i>Journal of Chromatography A</i> , <b>2015</b> , 1385, 103-10	4.5	40
63	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> , <b>2014</b> , 98, 52-9	3.5	29
62	In silico modelling of pesticide aquatic toxicity. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2014</b> , 17, 808-18	1.3	3
61	Molecular structural characteristics important in drug-HSA binding. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2014</b> , 17, 879-90	1.3	4
60	The assessment and characterisation of drug plasma protein binding in the body using QSAR. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2014</b> , 14, 484-93	3.2	1
59	Evaluation of high-performance thin-layer chromatography for the quantification of phenylpropanoids in commercial Echinacea products. <i>Journal of Planar Chromatography - Modern TLC</i> , <b>2014</b> , 27, 260-266	0.9	
58	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> , <b>2013</b> , 798, 103-8	6.6	31
57	Quantification of phenylpropanoids in commercial Echinacea products using TLC with video densitometry as detection technique and ANN for data modelling. <i>Phytochemical Analysis</i> , <b>2013</b> , 24, 303-8	3.4	8
56	QSAR: an in silico approach for predicting the partitioning of pesticides into breast milk. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2013</b> , 16, 223-32	1.3	5
55	The Use of Fourier Transform Infrared (FTIR) Spectroscopy and Artificial Neural Networks (ANNs) to Assess Wine Quality. <i>Modern Chemistry &amp; Applications</i> , <b>2013</b> , 01,		14
54	Hybrid neural networks as tools for predicting the phase behavior of colloidal systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 415, 59-67	5.1	8
53	The use of UV-visible reflectance spectroscopy as an objective tool to evaluate pearl quality. <i>Marine Drugs</i> , <b>2012</b> , 10, 1459-75	6	7
52	Pesticides as estrogen disruptors: QSAR for selective ER $\alpha$ and ER $\beta$ binding of pesticides. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2011</b> , 14, 85-92	1.3	4
51	Modeling the effect of selected cyclodextrins on nifedipine solubility. <i>Current Drug Discovery Technologies</i> , <b>2011</b> , 8, 146-54	1.5	2

50	Artificial neural network (ANN) based modelling for D1 like and D2 like dopamine receptor affinity and selectivity. <i>Medicinal Chemistry</i> , <b>2010</b> , 6, 259-70	1.8	9
49	Molecular structural characteristics of estrogen receptor modulators as determinants of estrogen receptor selectivity. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2008</b> , 8, 943-51	3.2	9
48	Quantitative structure-retention-pharmacokinetic relationship studies. <i>Drug Metabolism Letters</i> , <b>2008</b> , 2, 130-7	2.1	1
47	Compatibility studies between mannitol and omeprazole sodium isomers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 48, 356-60	3.5	20
46	Molecular structural characteristics as determinants of estrogen receptor selectivity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 48, 369-75	3.5	17
45	Analysing the crystal purity of mebendazole raw material and its stability in a suspension formulation. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 361, 245-50	6.5	32
44	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> , <b>2007</b> , 45, 38-44	1.4	27
43	In Silico Prediction of Oral Bioavailability <b>2007</b> , 699-724		10
42	Molecular aspects of phytoestrogen selective binding at estrogen receptors. <i>Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 96, 1879-85	3.9	87
41	Influence of sulfobutylether-beta-cyclodextrin on the stability of S- and R- omeprazole. <i>Current Drug Discovery Technologies</i> , <b>2007</b> , 4, 192-7	1.5	2
40	Validation of an HPLC method for the simultaneous determination of eletriptan and UK 120.413. <i>Journal of the Serbian Chemical Society</i> , <b>2006</b> , 71, 1195-1205	0.9	5
39	Artificial Neural Network Modeling of Phytoestrogen Binding to Estrogen Receptors. <i>Letters in Drug Design and Discovery</i> , <b>2006</b> , 3, 436-442	0.8	4
38	Prediction of drug absorption based on immobilized artificial membrane (IAM) chromatography separation and calculated molecular descriptors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2005</b> , 38, 472-8	3.5	38
37	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> , <b>2005</b> , 2, 195-201	1.5	11
36	Bioavailability prediction based on molecular structure for a diverse series of drugs. <i>Pharmaceutical Research</i> , <b>2004</b> , 21, 68-82	4.5	51
35	Strategy for the development of a thermodynamically stable oral microemulsion. <i>Current Drug Discovery Technologies</i> , <b>2004</b> , 1, 165-71	1.5	3
34	Prediction of a stable microemulsion formulation for the oral delivery of a combination of antitubercular drugs using ANN methodology. <i>Pharmaceutical Research</i> , <b>2003</b> , 20, 1760-5	4.5	36
33	Multiple pharmacokinetic parameter prediction for a series of cephalosporins. <i>Journal of Pharmaceutical Sciences</i> , <b>2003</b> , 92, 552-9	3.9	16

32	Prediction of drug bioavailability based on molecular structure. <i>Analytica Chimica Acta</i> , <b>2003</b> , 485, 89-102.	3.6	42
31	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> , <b>2002</b> , 28, 581-90	3.5	45
30	Molecular descriptors that influence the amount of drugs transfer into human breast milk. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2002</b> , 29, 103-19	3.5	48
29	Theoretically-derived molecular descriptors important in human intestinal absorption. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2001</b> , 25, 227-37	3.5	64
28	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> , <b>2001</b> , 24, 1019-25	3.5	25
27	Determination of polymorphic forms of ranitidine-HCl by DRIFTS and XRPD. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2001</b> , 25, 741-50	3.5	54
26	ANN modeling of the penetration across a polydimethylsiloxane membrane from theoretically derived molecular descriptors. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2001</b> , 26, 241-54	3.5	29
25	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> , <b>2001</b> , 449, 157-165	6.6	13
24	Role of genetic algorithms and artificial neural networks in predicting the phase behavior of colloidal delivery systems. <i>Pharmaceutical Research</i> , <b>2001</b> , 18, 1049-55	4.5	26
23	Structure-retention relationships of diuretics in reversed-phase liquid chromatography. <i>Biomedical Chromatography</i> , <b>2000</b> , 14, 41-3	1.7	
22	Determination of enantiomeric composition of ibuprofen in solid state mixtures of the two by DRIFT spectroscopy. <i>Analytica Chimica Acta</i> , <b>2000</b> , 417, 31-39	6.6	10
21	Effects of alcohols and diols on the phase behaviour of quaternary systems. <i>International Journal of Pharmaceutics</i> , <b>2000</b> , 196, 141-5	6.5	97
20	Ranitidine hydrochloride X-ray assay using a neural network. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2000</b> , 22, 985-92	3.5	26
19	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> , <b>2000</b> , 22, 1-6	3.5	16
18	Basic concepts of artificial neural network (ANN) modeling and its application in pharmaceutical research. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2000</b> , 22, 717-27	3.5	681
17	Prediction of drug transfer into human milk from theoretically derived descriptors. <i>Analytica Chimica Acta</i> , <b>2000</b> , 418, 181-195	6.6	48
16	Powder diffractometric assay of two polymorphic forms of ranitidine hydrochloride. <i>International Journal of Pharmaceutics</i> , <b>1999</b> , 184, 107-14	6.5	36
15	Use of artificial neural networks to predict quaternary phase systems from limited experimental data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1999</b> , 19, 443-52	3.5	26



14	Use of ANN modelling in structure--retention relationships of diuretics in RP-HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1999</b> , 21, 95-103	3.5	24
13	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> , <b>1999</b> , 16, 1477-82	4.5	19
12	Application of neural networks for response surface modeling in HPLC optimization. <i>Analytica Chimica Acta</i> , <b>1998</b> , 364, 265-273	6.6	56
11	Application of artificial neural networks in HPLC method development. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1998</b> , 17, 69-76	3.5	27
10	Spectrophotometric study of diclofenac-Fe(III) complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1997</b> , 16, 147-53	3.5	33
9	Comparison of high-performance and thin-layer chromatographic methods for the assay of lidocaine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1996</b> , 14, 1229-32	3.5	12
8	Statistical Optimisation Applied to Spectrophotometric Study of Indomethacin - Fe(III) Complex. <i>Analytical Letters</i> , <b>1992</b> , 25, 883-897	2.2	3
7	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> , <b>1992</b> , 49, 9-12	1.3	1
6	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> , <b>1991</b> , 9, 861-4	3.5	8
5	Quantitative spectrophotometric assay of levodopa as its Pd(II) complex in water and dosage forms. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1991</b> , 9, 1157-60	3.5	3
4	Experimental design applied to a spectrophotometric study of a diclofenac sodium-copper(II) complex. <i>Analyst, The</i> , <b>1991</b> , 116, 753-756	5	31
3	Spectrophotometric determination of furosemide as its Fe(III) complex in pharmaceutical preparations. <i>Mikrochimica Acta</i> , <b>1990</b> , 100, 49-54	5.8	13
2	Investigation of penbutolol-iron (III) complex and its spectrophotometric determination in tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1990</b> , 8, 739-42	3.5	2
1	Spectrophotometric determination of furosemide and its palladium(II) complex. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1990</b> , 8, 983-6	3.5	14