Katarina M Nikolic

List of Publications by Citations

114 papers	1,540 citations	19 h-index	35 g-index
131 ext. papers	1,887 ext. citations	3.3 avg, IF	4.96 L-index

#	Paper	IF	Citations
114	A perspective on multi-target drug discovery and design for complex diseases. *Clinical and Translational Medicine*, **2018**, 7, 3	5.7	307
113	Multitarget compounds bearing tacrine- and donepezil-like structural and functional motifs for the potential treatment of Alzheimer's disease. *Progress in Neurobiology*, **2017**, 151, 4-34	10.9	94
112	Design, synthesis, pharmacological evaluation, QSAR analysis, molecular modeling and ADMET of novel donepezil-indolyl hybrids as multipotent cholinesterase/monoamine oxidase inhibitors for the potential treatment of Alzheimer's disease. *European Journal of Medicinal Chemistry*, **2014**, 75, 82-95	6.8	94
111	Comparison of local versus general anesthesia in patients undergoing transcatheter aortic valve replacement: A meta-analysis. *Catheterization and Cardiovascular Interventions*, **2018**, 91, 330-342	2.7	61
110	One for All? Hitting Multiple Alzheimer's Disease Targets with One Drug. *Frontiers in Neuroscience*, **2016**, 10, 177	5.1	61
109	N-Methyl-N-((1-methyl-5-(3-(1-(2-methylbenzyl)piperidin-4-yl)propoxy)-1H-indol-2-yl)methyl)prop-2-yn-1-amine, a new cholinesterase and monoamine oxidase dual inhibitor. *Journal of Medicinal Chemistry*, **2014**, 57, 10455-63	8.3	50
108	Drug Design for CNS Diseases: Polypharmacological Profiling of Compounds Using Cheminformatic, 3D-QSAR and Virtual Screening Methodologies. *Frontiers in Neuroscience*, **2016**, 10, 265	5.1	49
107	Polypharmacology of dopamine receptor ligands. *Progress in Neurobiology*, **2016**, 142, 68-103	10.9	38
106	Methods for Design of Kinase Inhibitors as Anticancer Drugs. *Frontiers in Chemistry*, **2019**, 7, 873	5	32
105	Multiple Targeting Approaches on Histamine H3 Receptor Antagonists. *Frontiers in Neuroscience*, **2016**, 10, 201	5.1	32
104	Multipotent cholinesterase/monoamine oxidase inhibitors for the treatment of Alzheimer's disease: design, synthesis, biochemical evaluation, ADMET, molecular modeling, and QSAR analysis of novel donepezil-pyridyl hybrids. *Drug Design, Development and Therapy*, **2014**, 8, 1893-910	4.4	31
103	QSAR study of imidazoline antihypertensive drugs. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 7134-40	3.4	29
102	17-carboxamide steroids--in vitro prediction of human skin permeability and retention using PAMPA technique. *European Journal of Pharmaceutical Sciences*, **2014**, 52, 95-108	5.1	25
101	Imidazoline antihypertensive drugs: selective i(1) -imidazoline receptors activation. *Cardiovascular Therapeutics*, **2012**, 30, 209-16	3.3	25
100	Procognitive properties of drugs with single and multitargeting H3 receptor antagonist activities. *CNS Neuroscience and Therapeutics*, **2014**, 20, 613-23	6.8	24
99	Theoretical study of phenolic antioxidants properties in reaction with oxygen-centered radicals. *Computational and Theoretical Chemistry*, **2006**, 774, 95-105		24
98	Prediction of hepatic microsomal intrinsic clearance and human clearance values for drugs. *Journal of Molecular Graphics and Modelling*, **2009**, 28, 245-52	2.8	21

97	Prediction of blood-brain barrier permeation of -adrenergic and imidazoline receptor ligands using PAMPA technique and quantitative-structure permeability relationship analysis. *European Journal of Pharmaceutical Sciences*, **2015**, 68, 94-105	5.1	20
96	Partial least square and hierarchical clustering in ADMET modeling: prediction of blood-brain barrier permeation of -adrenergic and imidazoline receptor ligands. *Journal of Pharmacy and Pharmaceutical Sciences*, **2013**, 16, 622-47	3.4	20
95	Modulating Protein-Protein Interactions with Visible-Light-Responsive Peptide Backbone Photoswitches. *ChemBioChem*, **2019**, 20, 1417-1429	3.8	19
94	QSAR studies and design of new analogs of vitamin E with enhanced antiproliferative activity on MCF-7 breast cancer cells. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 59, 33-44	5.3	17
93	Pharmacophore development and SAR studies of imidazoline receptor ligands. *Mini-Reviews in Medicinal Chemistry*, **2012**, 12, 1542-55	3.2	16
92	Validation of an HPLC method for determination of aripiprazole and its impurities in pharmaceuticals. *Acta Chromatographica*, **2014**, 26, 13-28	1.5	15
91	Biopartitioning micellar chromatography as a predictive tool for skin and corneal permeability of newly synthesized 17-carboxamide steroids. *European Journal of Pharmaceutical Sciences*, **2014**, 56, 105-12	5.1	15
90	Predicting targets of compounds against neurological diseases using cheminformatic methodology. *Journal of Computer-Aided Molecular Design*, **2015**, 29, 183-98	4.2	14
89	Phenylpropiophenone derivatives as potential anticancer agents: synthesis, biological evaluation and quantitative structure-activity relationship study. *European Journal of Medicinal Chemistry*, **2013**, 63, 239-55	6.8	14
88	A validated enantiospecific method for determination and purity assay of clopridogrel. *Chirality*, **2009**, 21, 878-85	2.1	14
87	Design and QSAR study of analogs of gamma-tocotrienol with enhanced antiproliferative activity against human breast cancer cells. *Journal of Molecular Graphics and Modelling*, **2009**, 27, 777-83	2.8	14
86	Quantitative structure-mobility relationship analysis of imidazoline receptor ligands in CDs-mediated CE. *Electrophoresis*, **2013**, 34, 471-82	3.6	13
85	Quantitative structure-retention relationship of selected imidazoline derivatives on -acid glycoprotein column. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 127, 101-11	3.5	11
84	Development of a novel RP-HPLC method for the efficient separation of aripiprazole and its nine impurities. *Journal of Separation Science*, **2013**, 36, 3165-75	3.4	11
83	A combined ligand- and structure-based approach for the identification of rilmenidine-derived compounds which synergize the antitumor effects of doxorubicin. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3174-83	3.4	11
82	Rilmenidine suppresses proliferation and promotes apoptosis via the mitochondrial pathway in human leukemic K562 cells. *European Journal of Pharmaceutical Sciences*, **2016**, 81, 172-80	5.1	10
81	Direct separation of clopidogrel enantiomers by reverse-phase planar chromatography method using -cyclodextrin as a chiral mobile phase additive. *Acta Chromatographica*, **2011**, 23, 235-245	1.5	10
80	Design and QSAR study of analogs of alpha-tocopherol with enhanced antiproliferative activity against human breast adenocarcinoma cells. *Journal of Molecular Graphics and Modelling*, **2008**, 26, 868-73	2.8	10

79	Protolytic Equilibria of Sartans in Micellar Solutions of Differently Charged Surfactants. *Journal of Pharmaceutical Sciences*, **2016**, 105, 2444-52	3.9	9
78	Pharmacophore modeling, drug design and virtual screening on multi-targeting procognitive agents approaching histaminergic pathways. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 46, 15-29	5.3	9
77	Bicyclic □minophosphonates as High Affinity Imidazoline I Receptor Ligands for Alzheimer Disease. *Journal of Medicinal Chemistry*, **2020**, 63, 3610-3633	8.3	8
76	Comparative electrochemical studies of kinetic and thermodynamic parameters of Quinoxaline and Brimonidine redox process. *Electrochimica Acta*, **2018**, 271, 220-231	6.7	8
75	Development and Validation of an HPLC Method for Determination of Ziprasidone and Its Impurities in Pharmaceutical Dosage Forms. *Journal of AOAC INTERNATIONAL*, **2011**, 94, 713-722	1.7	8
74	High-Performance Liquid Chromatographic Determination of Pantoprazole and Its Main Impurities in Pharmaceuticals. *Journal of AOAC INTERNATIONAL*, **2010**, 93, 1121-1128	1.7	8
73	QSAR study of selective I1-imidazoline receptor ligands. *SAR and QSAR in Environmental Research*, **2009**, 20, 133-44	3.5	8
72	QSAR Study of Aromatic Organochalcogens with Glutathione Peroxidase □ike Antioxidant Activity. *QSAR and Combinatorial Science*, **2007**, 26, 358-367		8
71	Rational Drug Design of Antineoplastic Agents Using 3D-QSAR, Cheminformatic, and Virtual Screening Approaches. *Current Medicinal Chemistry*, **2019**, 26, 3874-3889	4.3	8
70	Synthesis of the vitamin E amino acid esters with an enhanced anticancer activity and in silico screening for new antineoplastic drugs. *European Journal of Pharmaceutical Sciences*, **2016**, 88, 59-69	5.1	8
69	Combined Ligand and Fragment-based Drug Design of Selective Histone Deacetylase - 6 Inhibitors. *Molecular Informatics*, **2019**, 38, e1800083	3.8	8
68	Application of biopartitioning micellar chromatography and QSRR modeling for prediction of gastrointestinal absorption and design of novel □hydroxy-□arylalkanoic acids. *European Journal of Pharmaceutical Sciences*, **2017**, 100, 280-284	5.1	7
67	ESTIMATION OF LIPOPHILICITY AND RETENTION BEHAVIOR OF SOME ALPHA ADRENERGIC AND IMIDAZOLINE RECEPTOR LIGANDS USING RP-TLC. *Journal of Liquid Chromatography and Related Technologies*, **2014**, 37, 2829-2845	1.3	7
66	Multi-target QSAR and docking study of steroids binding to corticosteroid-binding globulin and sex hormone-binding globulin. *Current Computer-Aided Drug Design*, **2012**, 8, 296-308	1.4	7
65	3D-QSAR, Virtual Screening, Docking and Design of Dual PI3K/mTOR Inhibitors with Enhanced Antiproliferative Activity. *Combinatorial Chemistry and High Throughput Screening*, **2017**, 20, 292-303	1.3	7
64	Voltammetric and theoretical studies of electrochemical behavior of cephalosporins at the mercury electrode. *Journal of the Serbian Chemical Society*, **2015**, 80, 1035-1049	0.9	7
63	Investigation and prediction of retention characteristics of imidazoline and serotonin receptor ligands and their related compounds on mixed-mode stationary phase. *Journal of Chromatography A*, **2019**, 1585, 92-104	4.5	7
62	In vitro prediction of gastrointestinal absorption of novel □hydroxy-□arylalkanoic acids using PAMPA technique. *European Journal of Pharmaceutical Sciences*, **2017**, 100, 36-41	5.1	6

61	Synthesis, In Silico, and In Vitro Evaluation of Anti-Leishmanial Activity of Oxadiazoles and Indolizine Containing Compounds Flagged against Anti-Targets. *Molecules*, **2019**, 24,	4.8	6
60	The stress stability of olanzapine: studies of interactions with excipients in solid state pharmaceutical formulations. *Drug Development and Industrial Pharmacy*, **2015**, 41, 502-14	3.6	6
59	The influence of bile salts on the distribution of simvastatin in the octanol/buffer system. *Drug Development and Industrial Pharmacy*, **2016**, 42, 661-7	3.6	6
58	Application of mathematical modeling for the development and optimization formulation with bioactive copper complex. *Drug Development and Industrial Pharmacy*, **2013**, 39, 1084-90	3.6	6
57	An Experimental Design Approach to Selecting the Optimum HPLC Conditions for the Determination of 2-Arylimidazoline Derivatives. *Journal of Liquid Chromatography and Related Technologies*, **2009**, 32, 656-667	1.3	6
56	Imidazoline-1 receptor ligands as apoptotic agents: pharmacophore modeling and virtual docking study. *Combinatorial Chemistry and High Throughput Screening*, **2013**, 16, 298-319	1.3	6
55	identification of novel 5-HT antagonists supported with ligand- and target-based drug design methodologies. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 1819-1837	3.6	6
54	Optimization of TLC method for separation and determination of ziprasidone and its impurities. *Journal of Liquid Chromatography and Related Technologies*, **2016**, 39, 271-276	1.3	5
53	Quantitative structure-retention relationship modeling of the retention behavior of guanidine and imidazoline derivatives in reversed-phase thin-layer chromatography. *Journal of Planar Chromatography - Modern TLC*, **2015**, 28, 119-125	0.9	5
52	The chemometric study and quantitative structure retention relationship modeling of liquid chromatography separation of ziprasidone components. *Combinatorial Chemistry and High Throughput Screening*, **2012**, 15, 730-44	1.3	5
51	QSAR study of □-tocopherol derivatives with chemotherapeutic activity against human breast cancer cells. *Computational and Theoretical Chemistry*, **2007**, 809, 137-143		5
50	The Quantitative Structure□Retention Relationship (QSRR) Analysis of Some Centrally Acting Antihypertensives and Diuretics. *QSAR and Combinatorial Science*, **2008**, 27, 1036-1044		5
49	Application of in vitro PAMPA technique and in silico computational methods for blood-brain barrier permeability prediction of novel CNS drug candidates. *European Journal of Pharmaceutical Sciences*, **2021**, 168, 106056	5.1	5
48	Structure-based design of selective histone deacetylase 6 zinc binding groups. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 3166-3177	3.6	5
47	An Integrative in silico Drug Repurposing Approach for Identification of Potential Inhibitors of SARS-CoV-2 Main Protease. *Molecular Informatics*, **2021**, 40, e2000187	3.8	5
46	Extending Cross Metathesis To Identify Selective HDAC Inhibitors: Synthesis, Biological Activities, and Modeling. *ACS Medicinal Chemistry Letters*, **2019**, 10, 863-868	4.3	4
45	QSAR Study and Design of Novel Organoselenium and α-Tocopherol Derivatives with Enhanced Chemotherapeutic Activity. *Letters in Drug Design and Discovery*, **2009**, 6, 228-235	0.8	4
44	Development and optimization of an HPLC analysis of citalopram and its four nonchiral impurities using experimental design methodology. *Journal of AOAC INTERNATIONAL*, **2012**, 95, 733-43	1.7	4

43	Chemometrically assisted RP-HPLC method development for efficient separation of ivabradine and its eleven impurities. *Acta Chromatographica*, **2020**, 32, 53-63	1.5	4
42	Synthesis and Biological Activity of a Cytostatic Inhibitor of MLLr Leukemia Targeting the DOT1L Protein. *Molecules*, **2021**, 26,	4.8	4
41	Use of biopartitioning micellar chromatography and RP-HPLC for the determination of blood-brain barrier penetration of -adrenergic/imidazoline receptor ligands, and QSPR analysis. *SAR and QSAR in Environmental Research*, **2017**, 28, 235-252	3.5	3
40	A Comparative Study of Chromatographic Behavior and Lipophilicity of Selected Imidazoline Derivatives. *Journal of Chromatographic Science*, **2016**, 54, 1137-45	1.4	3
39	TLC DETERMINATION OF GLIMEPIRIDE AND ITS MAIN IMPURITIES IN PHARMACEUTICALS. *Journal of Liquid Chromatography and Related Technologies*, **2013**, 36, 2422-2430	1.3	3
38	Analysis of -lipoic acid in drug formulations and dietary supplement preparations. *Acta Chromatographica*, **2009**, 21, 433-441	1.5	3
37	Optimization of the thin-layer chromatography method for the separation of ziprasidone and its impurities. *Journal of Planar Chromatography - Modern TLC*, **2016**, 29, 239-246	0.9	3
36	Evaluation of Biological Activity and Computer-Aided Design of New Soft Glucocorticoids. *Archiv Der Pharmazie*, **2017**, 350, 1600383	4.3	2
35	The effects of micelles of differently charged surfactants on the equilibrium between (Z)- and (E)-diastereomers of five ACE inhibitors in aqueous media. *Monatshefte F Chemie*, **2015**, 146, 913-921	1.4	2
34	Determination of Moxonidine and Its Impurities by Thin-Layer Chromatography. *Journal of Liquid Chromatography and Related Technologies*, **2015**, 38, 1121-1125	1.3	2
33	Analysis of the retention behavior of selected antipsychotics and their impurities by thin-layer chromatography. *Journal of Planar Chromatography - Modern TLC*, **2017**, 30, 340-349	0.9	2
32	3D-QSAR studies and pharmacophore identification of AT1 receptor antagonists. *Medicinal Chemistry Research*, **2016**, 25, 51-61	2.2	2
31	Determination of Moclobemide and its Metabolites in Human Plasma by SPE-HPLC-UV: Evaluation of Critical Experimental Conditions and QSRR Study. *Journal of Liquid Chromatography and Related Technologies*, **2009**, 32, 2080-2096	1.3	2
30	The oxidoreductase PYROXD1 uses NAD(P) as an antioxidant to sustain tRNA ligase activity in pre-tRNA splicing and unfolded protein response. *Molecular Cell*, **2021**, 81, 2520-2532.e16	17.6	2
29	Synthesis, in silico, and in vitro studies of novel dopamine D and D receptor ligands. *Archiv Der Pharmazie*, **2021**, 354, e2000486	4.3	2
28	Benzofuranyl-2-imidazoles as imidazoline I receptor ligands for Alzheimer disease. *European Journal of Medicinal Chemistry*, **2021**, 222, 113540	6.8	2
27	QSAR modeling and structure based virtual screening of new PI3K/mTOR inhibitors as potential anticancer agents. *IFMBE Proceedings*, **2017**, 379-383	0.2	1
26	Analysis of the retention behavior of selected antiarrhythmics by means of thin-layer chromatography. *Journal of Liquid Chromatography and Related Technologies*, **2019**, 42, 317-323	1.3	1

25	Quantitative structure-activity relationships of xanthen-3-one and xanthen-1,8-dione derivatives and design of new compounds with enhanced antiproliferative activity on HeLa cervical cancer cells. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 4026-4036	3.6	1
24	Deciphering Imidazoline Off-targets by Fishing in the Class A of GPCR field. *Molecular Informatics*, **2020**, 39, e1900165	3.8	1
23	Theoretical study on ionization of sartans in aqueous media and on interactions with surfactant micelles. *Journal of Molecular Graphics and Modelling*, **2018**, 82, 67-73	2.8	1
22	Identifying the CmbT substrates specificity by using a quantitative structure-activity relationship (QSAR) study. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 764-771	5.3	1
21	TLC DETERMINATION OF TIAPRIDE HYDROCHLORIDE AND ITS IMPURITIES IN PHARMACEUTICALS. *Journal of Liquid Chromatography and Related Technologies*, **2012**, 35, 1336-1345	1.3	1
20	The evaluation of drug-plasma protein binding interaction on immobilized human serum albumin stationary phase, aided by different computational approaches.. *Journal of Pharmaceutical and Biomedical Analysis*, **2022**, 211, 114593	3.5	1
19	Medicinal chemistry of histone deacetylase inhibitors. *Arhiv Za Farmaciju*, **2021**, 71, 73-100	0.2	1
18	Expanding the Accessible Chemical Space of SIRT2 Inhibitors through Exploration of Binding Pocket Dynamics.. *Journal of Chemical Information and Modeling*, **2022**,	6.1	1
17	Anticancer evaluation of the selected tetrahydropyrimidines: 3D-QSAR, cytotoxic activities, mechanism of action, DNA, and BSA interactions. *Journal of Molecular Structure*, **2022**, 1257, 132621	3.4	0
16	Ultra-performance liquid chromatography tandem mass spectrometry for the rapid, simultaneous analysis of ziprasidone and its impurities. *Biomedical Chromatography*, **2019**, 33, e4384	1.7	0
15	Fragment-Based Drug Design of Selective HDAC6 Inhibitors. *Methods in Molecular Biology*, **2021**, 2266, 155-170	1.4	0
14	3D-QSAR, molecular docking and in silico ADMET studies of propiophenone derivatives with anti-HIV-1 protease activity. *Structural Chemistry*, **2021**, 32, 2341	1.8	0
13	Bistable Photoswitch Allows in Vivo Control of Hematopoiesis.. *ACS Central Science*, **2022**, 8, 57-66	16.8	0
12	Influence of selected mobile phase properties on the TLC retention behavior of ziprasidone and its impurities. *Journal of Liquid Chromatography and Related Technologies*, **2017**, 40, 247-251	1.3	
11	(2-Imidazolin-4-yl)phosphonates: Green Chemistry and Biology Walk Together. *Proceedings (mdpi)*, **2019**, 22, 97	0.3	
10	The first case of benign familial neonatal epilepsy diagnosed in Serbia. *Vojnosanitetski Pregled*, **2021**, 78, 1005-1008	0.1	
9	Molecular modeling and analysis of the 3D pharmacophore structure of the selective PI3K- inhibitors as antitumor agents. *Arhiv Za Farmaciju*, **2018**, 68, 860-873	0.2	
8	3D-QSAR study and development of pharmacophore for serotonin 5-HT2A receptors agonists. *Arhiv Za Farmaciju*, **2017**, 67, 165-179	0.2	

7	3D-QSAR modeling and pharmacophore study of serotonin 5HT-A receptors antagonists. *Arhiv Za Farmaciju*, **2017**, 67, 233-247	0.2
6	Imidazoline receptors ligands. *Hemijska Industrija*, **2012**, 66, 619-635	0.6
5	Potential modulating effect of the Ascaris suum nicotinic acetylcholine receptor (nAChR) by compounds GSK575594A, diazepam and flumazenil discovered by structure-based virtual screening approach. *Molecular and Biochemical Parasitology*, **2021**, 242, 111350	1.9
4	Development of Hydrophilic Interaction Liquid Chromatography Method for the Analysis of Moxonidine and Its Impurities. *Journal of Analytical Methods in Chemistry*, **2016**, 2016, 3715972	2
3	Current computer-aided drug design methodologies in discovery of novel drug candidates for neuropsychiatric and inflammatory diseases. *Arhiv Za Farmaciju*, **2021**, 71, 225-256	0.2
2	Design and Discovery of Kinase Inhibitors Using Docking Studies **2021**, 337-365	
1	Quinazoline-based analog of adenine as an antidote against MLL-rearranged leukemia cells: synthesis, inhibition assays and docking studies.. *Future Medicinal Chemistry*, **2022**, 14, 557-570	4.1