

Katarina M Nikolic

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

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	The evaluation of drug-plasma protein binding interaction on immobilized human serum albumin stationary phase, aided by different computational approaches.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 211, 114593	3.5	1
113	Anticancer evaluation of the selected tetrahydropyrimidines: 3D-QSAR, cytotoxic activities, mechanism of action, DNA, and BSA interactions. <i>Journal of Molecular Structure</i> , 2022 , 1257, 132621	3.4	0
112	Quinazoline-based analog of adenine as an antidote against MLL-rearranged leukemia cells: synthesis, inhibition assays and docking studies.. <i>Future Medicinal Chemistry</i> , 2022 , 14, 557-570	4.1	
111	Bistable Photoswitch Allows in Vivo Control of Hematopoiesis.. <i>ACS Central Science</i> , 2022 , 8, 57-66	16.8	0
110	Expanding the Accessible Chemical Space of SIRT2 Inhibitors through Exploration of Binding Pocket Dynamics.. <i>Journal of Chemical Information and Modeling</i> , 2022 ,	6.1	1
109	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. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 4026-4036	3.6	1
108	Application of in vitro PAMPA technique and in silico computational methods for blood-brain barrier permeability prediction of novel CNS drug candidates. <i>European Journal of Pharmaceutical Sciences</i> , 2021 , 168, 106056	5.1	5
107	The first case of benign familial neonatal epilepsy diagnosed in Serbia. <i>Vojnosanitetski Pregled</i> , 2021 , 78, 1005-1008	0.1	
106	Potential modulating effect of the <i>Ascaris suum</i> nicotinic acetylcholine receptor (nAChR) by compounds GSK575594A, diazepam and flumazenil discovered by structure-based virtual screening approach. <i>Molecular and Biochemical Parasitology</i> , 2021 , 242, 111350	1.9	
105	The oxidoreductase PYROXD1 uses NAD(P) as an antioxidant to sustain tRNA ligase activity in pre-tRNA splicing and unfolded protein response. <i>Molecular Cell</i> , 2021 , 81, 2520-2532.e16	17.6	2
104	identification of novel 5-HT antagonists supported with ligand- and target-based drug design methodologies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 1819-1837	3.6	6
103	Current computer-aided drug design methodologies in discovery of novel drug candidates for neuropsychiatric and inflammatory diseases. <i>Arhiv Za Farmaciju</i> , 2021 , 71, 225-256	0.2	
102	Medicinal chemistry of histone deacetylase inhibitors. <i>Arhiv Za Farmaciju</i> , 2021 , 71, 73-100	0.2	1
101	Fragment-Based Drug Design of Selective HDAC6 Inhibitors. <i>Methods in Molecular Biology</i> , 2021 , 2266, 155-170	1.4	0
100	Design and Discovery of Kinase Inhibitors Using Docking Studies 2021 , 337-365		
99	Synthesis, in silico, and in vitro studies of novel dopamine D and D receptor ligands. <i>Archiv Der Pharmazie</i> , 2021 , 354, e2000486	4.3	2
98	An Integrative in silico Drug Repurposing Approach for Identification of Potential Inhibitors of SARS-CoV-2 Main Protease. <i>Molecular Informatics</i> , 2021 , 40, e2000187	3.8	5

97	3D-QSAR, molecular docking and in silico ADMET studies of propiophenone derivatives with anti-HIV-1 protease activity. <i>Structural Chemistry</i> , 2021 , 32, 2341	1.8	0
96	Synthesis and Biological Activity of a Cytostatic Inhibitor of MLLr Leukemia Targeting the DOT1L Protein. <i>Molecules</i> , 2021 , 26,	4.8	4
95	Benzofuranyl-2-imidazoles as imidazoline I receptor ligands for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2021 , 222, 113540	6.8	2
94	Bicyclic β -aminophosphonates as High Affinity Imidazoline I Receptor Ligands for Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 3610-3633	8.3	8
93	Deciphering Imidazoline Off-targets by Fishing in the Class A of GPCR field. <i>Molecular Informatics</i> , 2020 , 39, e1900165	3.8	1
92	Structure-based design of selective histone deacetylase 6 zinc binding groups. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 3166-3177	3.6	5
91	Chemometrically assisted RP-HPLC method development for efficient separation of ivabradine and its eleven impurities. <i>Acta Chromatographica</i> , 2020 , 32, 53-63	1.5	4
90	(2-Imidazolin-4-yl)phosphonates: Green Chemistry and Biology Walk Together. <i>Proceedings (mdpi)</i> , 2019 , 22, 97	0.3	
89	Extending Cross Metathesis To Identify Selective HDAC Inhibitors: Synthesis, Biological Activities, and Modeling. <i>ACS Medicinal Chemistry Letters</i> , 2019 , 10, 863-868	4.3	4
88	Modulating Protein-Protein Interactions with Visible-Light-Responsive Peptide Backbone Photoswitches. <i>ChemBioChem</i> , 2019 , 20, 1417-1429	3.8	19
87	Analysis of the retention behavior of selected antiarrhythmics by means of thin-layer chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2019 , 42, 317-323	1.3	1
86	Synthesis, In Silico, and In Vitro Evaluation of Anti-Leishmanial Activity of Oxadiazoles and Indolizine Containing Compounds Flagged against Anti-Targets. <i>Molecules</i> , 2019 , 24,	4.8	6
85	Methods for Design of Kinase Inhibitors as Anticancer Drugs. <i>Frontiers in Chemistry</i> , 2019 , 7, 873	5	32
84	Rational Drug Design of Antineoplastic Agents Using 3D-QSAR, Cheminformatic, and Virtual Screening Approaches. <i>Current Medicinal Chemistry</i> , 2019 , 26, 3874-3889	4.3	8
83	Ultra-performance liquid chromatography tandem mass spectrometry for the rapid, simultaneous analysis of ziprasidone and its impurities. <i>Biomedical Chromatography</i> , 2019 , 33, e4384	1.7	0
82	Investigation and prediction of retention characteristics of imidazoline and serotonin receptor ligands and their related compounds on mixed-mode stationary phase. <i>Journal of Chromatography A</i> , 2019 , 1585, 92-104	4.5	7
81	Combined Ligand and Fragment-based Drug Design of Selective Histone Deacetylase - 6 Inhibitors. <i>Molecular Informatics</i> , 2019 , 38, e1800083	3.8	8
80	Theoretical study on ionization of sartans in aqueous media and on interactions with surfactant micelles. <i>Journal of Molecular Graphics and Modelling</i> , 2018 , 82, 67-73	2.8	1

79	Comparative electrochemical studies of kinetic and thermodynamic parameters of Quinoxaline and Brimonidine redox process. <i>Electrochimica Acta</i> , 2018 , 271, 220-231	6.7	8
78	Comparison of local versus general anesthesia in patients undergoing transcatheter aortic valve replacement: A meta-analysis. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 91, 330-342	2.7	61
77	A perspective on multi-target drug discovery and design for complex diseases. <i>Clinical and Translational Medicine</i> , 2018 , 7, 3	5.7	307
76	Molecular modeling and analysis of the 3D pharmacophore structure of the selective PI3K- β inhibitors as antitumor agents. <i>Arhiv Za Farmaciju</i> , 2018 , 68, 860-873	0.2	
75	Multitarget compounds bearing tacrine- and donepezil-like structural and functional motifs for the potential treatment of Alzheimer's disease. <i>Progress in Neurobiology</i> , 2017 , 151, 4-34	10.9	94
74	In vitro prediction of gastrointestinal absorption of novel β -hydroxy- β -arylalkanoic acids using PAMPA technique. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 100, 36-41	5.1	6
73	Application of biopartitioning micellar chromatography and QSRR modeling for prediction of gastrointestinal absorption and design of novel β -hydroxy- β -arylalkanoic acids. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 100, 280-284	5.1	7
72	Influence of selected mobile phase properties on the TLC retention behavior of ziprasidone and its impurities. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2017 , 40, 247-251	1.3	
71	QSAR modeling and structure based virtual screening of new PI3K/mTOR inhibitors as potential anticancer agents. <i>IFMBE Proceedings</i> , 2017 , 379-383	0.2	1
70	Use of biopartitioning micellar chromatography and RP-HPLC for the determination of blood-brain barrier penetration of β -adrenergic/imidazoline receptor ligands, and QSPR analysis. <i>SAR and QSAR in Environmental Research</i> , 2017 , 28, 235-252	3.5	3
69	Evaluation of Biological Activity and Computer-Aided Design of New Soft Glucocorticoids. <i>Archiv Der Pharmazie</i> , 2017 , 350, 1600383	4.3	2
68	Analysis of the retention behavior of selected antipsychotics and their impurities by thin-layer chromatography. <i>Journal of Planar Chromatography - Modern TLC</i> , 2017 , 30, 340-349	0.9	2
67	3D-QSAR, Virtual Screening, Docking and Design of Dual PI3K/mTOR Inhibitors with Enhanced Antiproliferative Activity. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2017 , 20, 292-303	1.3	7
66	3D-QSAR study and development of pharmacophore for serotonin 5-HT _{2A} receptors agonists. <i>Arhiv Za Farmaciju</i> , 2017 , 67, 165-179	0.2	
65	3D-QSAR modeling and pharmacophore study of serotonin 5HT _{2A} receptors antagonists. <i>Arhiv Za Farmaciju</i> , 2017 , 67, 233-247	0.2	
64	QSAR studies and design of new analogs of vitamin E with enhanced antiproliferative activity on MCF-7 breast cancer cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 59, 33-44	5.3	17
63	A Comparative Study of Chromatographic Behavior and Lipophilicity of Selected Imidazoline Derivatives. <i>Journal of Chromatographic Science</i> , 2016 , 54, 1137-45	1.4	3
62	Protolytic Equilibria of Sartans in Micellar Solutions of Differently Charged Surfactants. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 2444-52	3.9	9

61	The influence of bile salts on the distribution of simvastatin in the octanol/buffer system. <i>Drug Development and Industrial Pharmacy</i> , 2016 , 42, 661-7	3.6	6
60	Quantitative structure-retention relationship of selected imidazoline derivatives on α -acid glycoprotein column. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 127, 101-11	3.5	11
59	Optimization of TLC method for separation and determination of ziprasidone and its impurities. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2016 , 39, 271-276	1.3	5
58	3D-QSAR studies and pharmacophore identification of AT1 receptor antagonists. <i>Medicinal Chemistry Research</i> , 2016 , 25, 51-61	2.2	2
57	Rilmenidine suppresses proliferation and promotes apoptosis via the mitochondrial pathway in human leukemic K562 cells. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 81, 172-80	5.1	10
56	Optimization of the thin-layer chromatography method for the separation of ziprasidone and its impurities. <i>Journal of Planar Chromatography - Modern TLC</i> , 2016 , 29, 239-246	0.9	3
55	Development of Hydrophilic Interaction Liquid Chromatography Method for the Analysis of Moxonidine and Its Impurities. <i>Journal of Analytical Methods in Chemistry</i> , 2016 , 2016, 3715972	2	
54	One for All? Hitting Multiple Alzheimer's Disease Targets with One Drug. <i>Frontiers in Neuroscience</i> , 2016 , 10, 177	5.1	61
53	Multiple Targeting Approaches on Histamine H3 Receptor Antagonists. <i>Frontiers in Neuroscience</i> , 2016 , 10, 201	5.1	32
52	Drug Design for CNS Diseases: Polypharmacological Profiling of Compounds Using Cheminformatics, 3D-QSAR and Virtual Screening Methodologies. <i>Frontiers in Neuroscience</i> , 2016 , 10, 265	5.1	49
51	A combined ligand- and structure-based approach for the identification of rilmenidine-derived compounds which synergize the antitumor effects of doxorubicin. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 3174-83	3.4	11
50	Polypharmacology of dopamine receptor ligands. <i>Progress in Neurobiology</i> , 2016 , 142, 68-103	10.9	38
49	Synthesis of the vitamin E amino acid esters with an enhanced anticancer activity and in silico screening for new antineoplastic drugs. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 88, 59-69	5.1	8
48	The effects of micelles of differently charged surfactants on the equilibrium between (Z)- and (E)-diastereomers of five ACE inhibitors in aqueous media. <i>Monatshefte für Chemie</i> , 2015 , 146, 913-921	1.4	2
47	Determination of Moxonidine and Its Impurities by Thin-Layer Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015 , 38, 1121-1125	1.3	2
46	Predicting targets of compounds against neurological diseases using cheminformatics methodology. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 183-98	4.2	14
45	The stress stability of olanzapine: studies of interactions with excipients in solid state pharmaceutical formulations. <i>Drug Development and Industrial Pharmacy</i> , 2015 , 41, 502-14	3.6	6
44	Quantitative structure-retention relationship modeling of the retention behavior of guanidine and imidazoline derivatives in reversed-phase thin-layer chromatography. <i>Journal of Planar Chromatography - Modern TLC</i> , 2015 , 28, 119-125	0.9	5

43	Pharmacophore modeling, drug design and virtual screening on multi-targeting procognitive agents approaching histaminergic pathways. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 46, 15-29	5.3	9
42	Prediction of blood-brain barrier permeation of β -adrenergic and imidazoline receptor ligands using PAMPA technique and quantitative-structure permeability relationship analysis. <i>European Journal of Pharmaceutical Sciences</i> , 2015 , 68, 94-105	5.1	20
41	Voltammetric and theoretical studies of electrochemical behavior of cephalosporins at the mercury electrode. <i>Journal of the Serbian Chemical Society</i> , 2015 , 80, 1035-1049	0.9	7
40	17 β -carboxamide steroids--in vitro prediction of human skin permeability and retention using PAMPA technique. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 52, 95-108	5.1	25
39	Procognitive properties of drugs with single and multitargeting H3 receptor antagonist activities. <i>CNS Neuroscience and Therapeutics</i> , 2014 , 20, 613-23	6.8	24
38	Validation of an HPLC method for determination of aripiprazole and its impurities in pharmaceuticals. <i>Acta Chromatographica</i> , 2014 , 26, 13-28	1.5	15
37	Identifying the CmbT substrates specificity by using a quantitative structure-activity relationship (QSAR) study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 764-771	5.3	1
36	Biopartitioning micellar chromatography as a predictive tool for skin and corneal permeability of newly synthesized 17 β -carboxamide steroids. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 56, 105-12	5.1	15
35	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. <i>European Journal of Medicinal Chemistry</i> , 2014 , 75, 82-95	6.8	94
34	ESTIMATION OF LIPOPHILICITY AND RETENTION BEHAVIOR OF SOME ALPHA ADRENERGIC AND IMIDAZOLINE RECEPTOR LIGANDS USING RP-TLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2014 , 37, 2829-2845	1.3	7
33	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. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 10455-63	8.3	50
32	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. <i>Drug Design, Development and Therapy</i> , 2014 , 8, 1893-910	4.4	31
31	Development of a novel RP-HPLC method for the efficient separation of aripiprazole and its nine impurities. <i>Journal of Separation Science</i> , 2013 , 36, 3165-75	3.4	11
30	TLC DETERMINATION OF GLIMEPIRIDE AND ITS MAIN IMPURITIES IN PHARMACEUTICALS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2013 , 36, 2422-2430	1.3	3
29	Quantitative structure-mobility relationship analysis of imidazoline receptor ligands in CDs-mediated CE. <i>Electrophoresis</i> , 2013 , 34, 471-82	3.6	13
28	Phenylpropiophenone derivatives as potential anticancer agents: synthesis, biological evaluation and quantitative structure-activity relationship study. <i>European Journal of Medicinal Chemistry</i> , 2013 , 63, 239-55	6.8	14
27	Application of mathematical modeling for the development and optimization formulation with bioactive copper complex. <i>Drug Development and Industrial Pharmacy</i> , 2013 , 39, 1084-90	3.6	6
26	Partial least square and hierarchical clustering in ADMET modeling: prediction of blood-brain barrier permeation of β -adrenergic and imidazoline receptor ligands. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2013 , 16, 622-47	3.4	20

25	Imidazoline-1 receptor ligands as apoptotic agents: pharmacophore modeling and virtual docking study. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013 , 16, 298-319	1.3	6
24	Imidazoline antihypertensive drugs: selective i(1) -imidazoline receptors activation. <i>Cardiovascular Therapeutics</i> , 2012 , 30, 209-16	3.3	25
23	Development and optimization of an HPLC analysis of citalopram and its four nonchiral impurities using experimental design methodology. <i>Journal of AOAC INTERNATIONAL</i> , 2012 , 95, 733-43	1.7	4
22	Multi-target QSAR and docking study of steroids binding to corticosteroid-binding globulin and sex hormone-binding globulin. <i>Current Computer-Aided Drug Design</i> , 2012 , 8, 296-308	1.4	7
21	Pharmacophore development and SAR studies of imidazoline receptor ligands. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012 , 12, 1542-55	3.2	16
20	TLC DETERMINATION OF TIAPRIDE HYDROCHLORIDE AND ITS IMPURITIES IN PHARMACEUTICALS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012 , 35, 1336-1345	1.3	1
19	The chemometric study and quantitative structure retention relationship modeling of liquid chromatography separation of ziprasidone components. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2012 , 15, 730-44	1.3	5
18	Imidazoline receptors ligands. <i>Hemijaska Industrija</i> , 2012 , 66, 619-635	0.6	
17	Development and Validation of an HPLC Method for Determination of Ziprasidone and Its Impurities in Pharmaceutical Dosage Forms. <i>Journal of AOAC INTERNATIONAL</i> , 2011 , 94, 713-722	1.7	8
16	Direct separation of clopidogrel enantiomers by reverse-phase planar chromatography method using β -cyclodextrin as a chiral mobile phase additive. <i>Acta Chromatographica</i> , 2011 , 23, 235-245	1.5	10
15	High-Performance Liquid Chromatographic Determination of Pantoprazole and Its Main Impurities in Pharmaceuticals. <i>Journal of AOAC INTERNATIONAL</i> , 2010 , 93, 1121-1128	1.7	8
14	QSAR Study and Design of Novel Organoselenium and α -Tocopherol Derivatives with Enhanced Chemotherapeutic Activity. <i>Letters in Drug Design and Discovery</i> , 2009 , 6, 228-235	0.8	4
13	A validated enantiospecific method for determination and purity assay of clopidogrel. <i>Chirality</i> , 2009 , 21, 878-85	2.1	14
12	Prediction of hepatic microsomal intrinsic clearance and human clearance values for drugs. <i>Journal of Molecular Graphics and Modelling</i> , 2009 , 28, 245-52	2.8	21
11	Design and QSAR study of analogs of gamma-tocotrienol with enhanced antiproliferative activity against human breast cancer cells. <i>Journal of Molecular Graphics and Modelling</i> , 2009 , 27, 777-83	2.8	14
10	An Experimental Design Approach to Selecting the Optimum HPLC Conditions for the Determination of 2-Arylimidazoline Derivatives. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009 , 32, 656-667	1.3	6
9	QSAR study of selective I1-imidazoline receptor ligands. <i>SAR and QSAR in Environmental Research</i> , 2009 , 20, 133-44	3.5	8
8	Determination of Moclobemide and its Metabolites in Human Plasma by SPE-HPLC-UV: Evaluation of Critical Experimental Conditions and QSRR Study. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009 , 32, 2080-2096	1.3	2

7	Analysis of Hippic acid in drug formulations and dietary supplement preparations. <i>Acta Chromatographica</i> , 2009 , 21, 433-441	1.5	3
6	The Quantitative StructureRetention Relationship (QSRR) Analysis of Some Centrally Acting Antihypertensives and Diuretics. <i>QSAR and Combinatorial Science</i> , 2008 , 27, 1036-1044		5
5	Design and QSAR study of analogs of alpha-tocopherol with enhanced antiproliferative activity against human breast adenocarcinoma cells. <i>Journal of Molecular Graphics and Modelling</i> , 2008 , 26, 868-73 ⁸	2.8	10
4	QSAR study of imidazoline antihypertensive drugs. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 7134-40.4		29
3	QSAR study of Tocopherol derivatives with chemotherapeutic activity against human breast cancer cells. <i>Computational and Theoretical Chemistry</i> , 2007 , 809, 137-143		5
2	QSAR Study of Aromatic Organochalcogens with Glutathione Peroxidase Like Antioxidant Activity. <i>QSAR and Combinatorial Science</i> , 2007 , 26, 358-367		8
1	Theoretical study of phenolic antioxidants properties in reaction with oxygen-centered radicals. <i>Computational and Theoretical Chemistry</i> , 2006 , 774, 95-105		24