Petko Alov

List of Publications by Year in descending order

32 papers	403 citations	758635 12 h-index	752256 20 g-index
33 all docs	33 docs citations	33 times ranked	671 citing authors

#	Article	IF	Citations
1	Computational Studies of Free Radical-Scavenging Properties of Phenolic Compounds. Current Topics in Medicinal Chemistry, 2015, 15, 85-104.	1.0	75
2	Quantitative structure-skin permeability relationships. Toxicology, 2017, 387, 27-42.	2.0	69
3	Molecular Modelling Study of the PPARÎ³ Receptor in Relation to the Mode of Action/Adverse Outcome Pathway Framework for Liver Steatosis. International Journal of Molecular Sciences, 2014, 15, 7651-7666.	1.8	38
4	Role of Iron Ion Chelation by Quinones in Their Reduction, OH-Radical Generation, and Lipid Peroxidation. Biochemical and Biophysical Research Communications, 1993, 195, 113-119.	1.0	22
5	The application of molecular modelling in the safety assessment of chemicals: A case study on ligand-dependent PPARÎ³ dysregulation. Toxicology, 2017, 392, 140-154.	2.0	21
6	Modes-of-Action Related to Repeated Dose Toxicity: Tissue-Specific Biological Roles of PPARÎ³Ligand-Dependent Dysregulation in Nonalcoholic Fatty Liver Disease. PPAR Research, 2014, 2014, 1-13.	1.1	20
7	In vitro and in silico studies of the membrane permeability of natural flavonoids from Silybum marianum (L.) Gaertn. and their derivatives. Phytomedicine, 2019, 53, 79-85.	2.3	18
8	Cytotoxicity and Microbicidal Activity of Commonly Used Organic Solvents: A Comparative Study and Application to a Standardized Extract from Vaccinium macrocarpon. Toxics, 2021, 9, 92.	1.6	17
9	Molecular dynamics simulation of the human estrogen receptor alpha: contribution to the pharmacophore of the agonists. Mathematics and Computers in Simulation, 2017, 133, 124-134.	2.4	14
10	Natural modulators of nonalcoholic fatty liver disease: Mode of action analysis and in silico ADME-Tox prediction. Toxicology and Applied Pharmacology, 2017, 337, 45-66.	1.3	14
11	Dual SMO/BRAF Inhibition by Flavonolignans from Silybum marianum. Antioxidants, 2020, 9, 384.	2.2	13
12	Advances in the prediction of gastrointestinal absorption: Quantitative Structure-Activity Relationship (QSAR) modelling of PAMPA permeability. Computational Toxicology, 2019, 10, 51-59.	1.8	12
13	Natural Chain-Breaking Antioxidants and Their Synthetic Analogs as Modulators of Oxidative Stress. Antioxidants, 2021, 10, 624.	2.2	12
14	Recent Advances in the Molecular Modeling of Estrogen Receptor-Mediated Toxicity. Advances in Protein Chemistry and Structural Biology, 2011, 85, 217-251.	1.0	9
15	Molecular determinants of PPARÎ³ partial agonism and related in silico/in vivo studies of natural saponins as potential type 2 diabetes modulators. Food and Chemical Toxicology, 2018, 112, 47-59.	1.8	9
16	Influence of long-term treatment with the Ca2+-antagonists nifedipine, verapamil, flunarizine and with the calmodulin antagonist trifluoperazine on Î²-adrenoceptors in rat cerebral cortex. General Pharmacology, 1990, 21, 149-152.	0.7	7
17	InterCriteria Analysis Implementation for Exploration of the Performance of Various Docking Scoring Functions. Studies in Computational Intelligence, 2021, , 88-98.	0.7	5
18	ADME/Tox Properties and Biochemical Interactions of Silybin Congeners: In silico Study. Natural Product Communications, 2017, 12, 1934578X1701200.	0.2	4

#	Article	IF	Citations
19	ADME/Tox Properties and Biochemical Interactions of Silybin Congeners: In silico Study. Natural Product Communications, 2017, 12, 175-178.	0.2	4
20	In vitro effects of calcium channel blockers and beta-adrenergic blocking agents on microsomal lipid peroxidation and cytochrome p-450 content. Experimental and Toxicologic Pathology, 1999, 51, 277-281.	2.1	3
21	Computational Analysis of Chemical Space of Natural Compounds Interacting with Sulfotransferases. Molecules, 2021, 26, 6360.	1.7	3
22	A Comprehensive Evaluation of Sdox, a Promising H2S-Releasing Doxorubicin for the Treatment of Chemoresistant Tumors. Frontiers in Pharmacology, 2022, 13, 831791.	1.6	3
23	Effect of multiple administration of calcium antagonists on lipid peroxidation in rat liver microsomes. General Pharmacology, 1996, 27, 891-893.	0.7	2
24	Toward better understanding of liver steatosis MoA: Molecular modelling study of PPAR gamma receptor. Toxicology Letters, 2013, 221, S85.	0.4	2
25	In silico and in vivo studies of Astragalus glycyphylloides saponin(s) with relevance to metabolic syndrome modulation. Food and Chemical Toxicology, 2019, 130, 317-325.	1.8	2
26	Exploring Applicability of the InterCriteria Analysis to Evaluate theÂPerformance of MOE and GOLD ScoringÂFunctions. Studies in Computational Intelligence, 2021, , 198-208.	0.7	2
27	Molecular Modeling Approach to Study the PPARÎ³â€“Ligand Interactions. Methods in Molecular Biology, 2019, 1966, 261-289.	0.4	1
28	In silico Studies of Biologically Active Molecules. Studies in Computational Intelligence, 2021, , 421-451.	0.7	1
29	New Potential Pharmacological Targets of Plant-Derived Hydroxyanthraquinones from Rubia spp.. Molecules, 2022, 27, 3274.	1.7	1
30	Optimized Structure-based Methodology for Studying PPARÎ³ Partial Agonists. International Journal Bioautomation, 2018, 22, 65-72.	0.1	0
31	Computational Studies of Free Radical-Scavenging Properties of Phenolic Compounds. Current Topics in Medicinal Chemistry, 2014, , .	1.0	0
32	Hybrid Classification/Regression Approach to QSAR Modeling of Stoichiometric Antiradical Capacity Assaysâ€™ Endpoints. Molecules, 2022, 27, 2084.	1.7	0