

# Maria M Miteva

## List of Publications by Year in descending order

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100  
papers

4,812  
citations

94433

37  
h-index

102487

66  
g-index

106  
all docs

106  
docs citations

106  
times ranked

6630  
citing authors

#	ARTICLE	IF	CITATIONS
1	Druggable pockets and binding site centric chemical space: a paradigm shift in drug discovery. <i>Drug Discovery Today</i> , 2010, 15, 656-667.	6.4	249
2	FAF-Drugs3: a web server for compound property calculation and chemical library design. <i>Nucleic Acids Research</i> , 2015, 43, W200-W207.	14.5	237
3	FAF-Drugs4: free ADME-tox filtering computations for chemical biology and early stages drug discovery. <i>Bioinformatics</i> , 2017, 33, 3658-3660.	4.1	230
4	Frog2: Efficient 3D conformation ensemble generator for small compounds. <i>Nucleic Acids Research</i> , 2010, 38, W622-W627.	14.5	224
5	FAF-Drugs2: Free ADME/tox filtering tool to assist drug discovery and chemical biology projects. <i>BMC Bioinformatics</i> , 2008, 9, 396.	2.6	221
6	Toward in silico structure-based ADMET prediction in drug discovery. <i>Drug Discovery Today</i> , 2012, 17, 44-55.	6.4	220
7	MTiOpenScreen: a web server for structure-based virtual screening. <i>Nucleic Acids Research</i> , 2015, 43, W448-W454.	14.5	159
8	Computational analysis of calculated physicochemical and ADMET properties of protein-protein interaction inhibitors. <i>Scientific Reports</i> , 2017, 7, 46277.	3.3	128
9	FAF-Drugs: free ADME/tox filtering of compound collections. <i>Nucleic Acids Research</i> , 2006, 34, W738-W744.	14.5	115
10	Structure-Based Virtual Ligand Screening: Recent Success Stories. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 1000-1016.	1.1	114
11	Analyzing Effects of Naturally Occurring Missense Mutations. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-15.	1.3	111
12	Fast Structure-Based Virtual Ligand Screening Combining FRED, DOCK, and Surflex. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6012-6022.	6.4	106
13	Free Resources to Assist Structure-Based Virtual Ligand Screening Experiments. <i>Current Protein and Peptide Science</i> , 2007, 8, 381-411.	1.4	104
14	Molecular electroporation: a unifying concept for the description of membrane pore formation by antibacterial peptides, exemplified with NK-lysin. <i>FEBS Letters</i> , 1999, 462, 155-158.	2.8	103
15	MS-DOCK: Accurate multiple conformation generator and rigid docking protocol for multi-step virtual ligand screening. <i>BMC Bioinformatics</i> , 2008, 9, 184.	2.6	102
16	Drug-Like Protein-Protein Interaction Modulators: Challenges and Opportunities for Drug Discovery and Chemical Biology. <i>Molecular Informatics</i> , 2014, 33, 414-437.	2.5	93
17	Reduced phosphatase activity of SHP-2 in LEOPARD syndrome: Consequences for PI3K binding on Gab1. <i>FEBS Letters</i> , 2006, 580, 2477-2482.	2.8	91
18	New machine learning and physics-based scoring functions for drug discovery. <i>Scientific Reports</i> , 2021, 11, 3198.	3.3	91

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19	Frog: a FRee Online druG 3D conformation generator. <i>Nucleic Acids Research</i> , 2007, 35, W568-W572.	14.5	86
20	The FAF-Drugs2 server: a multistep engine to prepare electronic chemical compound collections. <i>Bioinformatics</i> , 2011, 27, 2018-2020.	4.1	81
21	One hundred thousand mouse clicks down the road: selected online resources supporting drug discovery collected over a decade. <i>Drug Discovery Today</i> , 2013, 18, 1081-1089.	6.4	76
22	How to choose relevant multiple receptor conformations for virtual screening: a test case of Cdk2 and normal mode analysis. <i>European Biophysics Journal</i> , 2010, 39, 1365-1372.	2.2	68
23	In Silico-In Vitro Screening of Protein-Protein Interactions: Towards the Next Generation of Therapeutics. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 103-122.	1.6	59
24	Pharmacogenomics of the cytochrome P450 2C family: impacts of amino acid variations on drug metabolism. <i>Drug Discovery Today</i> , 2017, 22, 366-376.	6.4	58
25	In silico design of low molecular weight protein-protein interaction inhibitors: Overall concept and recent advances. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 119, 20-32.	2.9	56
26	Genetic, molecular and functional analyses of complement factor I deficiency. <i>European Journal of Immunology</i> , 2009, 39, 310-323.	2.9	53
27	Design, synthesis, and biological evaluation of novel naphthoquinone derivatives with CDC25 phosphatase inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4871-4879.	3.0	51
28	PCE: web tools to compute protein continuum electrostatics. <i>Nucleic Acids Research</i> , 2005, 33, W372-W375.	14.5	51
29	Design of protein-membrane interaction inhibitors by virtual ligand screening, proof of concept with the C2 domain of factor V. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12697-12702.	7.1	50
30	Anti-Factor B Antibodies and Acute Postinfectious GN in Children. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 829-840.	6.1	50
31	iPPI-DB: an online database of modulators of protein-protein interactions. <i>Nucleic Acids Research</i> , 2016, 44, D542-D547.	14.5	49
32	Receptor-Based Computational Screening of Compound Databases: The Main Docking-Scoring Engines. <i>Current Protein and Peptide Science</i> , 2006, 7, 369-393.	1.4	47
33	Structure-based virtual ligand screening with LigandFit: Pose prediction and enrichment of compound collections. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 68, 712-725.	2.6	45
34	AMMOS: Automated Molecular Mechanics Optimization tool for in silico Screening. <i>BMC Bioinformatics</i> , 2008, 9, 438.	2.6	44
35	Receptor-Based Virtual Ligand Screening for the Identification of Novel CDC25 Phosphatase Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 157-165.	5.4	43
36	Stabilization of protein-protein interaction complexes through small molecules. <i>Drug Discovery Today</i> , 2016, 21, 48-57.	6.4	41

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37	Advances in Molecular Modeling of Human Cytochrome P450 Polymorphism. <i>Journal of Molecular Biology</i> , 2013, 425, 3978-3992.	4.2	39
38	DG-AMMOS: A New tool to generate 3D conformation of small molecules using Distance Geometry and Automated Molecular Mechanics Optimization for in silico Screening. <i>BMC Chemical Biology</i> , 2009, 9, 6.	1.6	38
39	Targeting the Proangiogenic VEGF-VEGFR Protein-Protein Interface with Drug-like Compounds by In Silico and In Vitro Screening. <i>Chemistry and Biology</i> , 2011, 18, 1631-1639.	6.0	38
40	Multiply-Protonated Protein Ions in the Gas Phase: Calculation of the Electrostatic Interactions between Charged Sites. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9645-9650.	2.6	36
41	Discovery of novel inhibitors of vascular endothelial growth factor-Neuropilin-1 interaction by structure-based virtual screening. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4042-4048.	3.0	35
42	MED-SuMoLig: A New Ligand-Based Screening Tool for Efficient Scaffold Hopping. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1097-1110.	5.4	34
43	In Silico Prediction of Aqueous Solubility: A Multimodel Protocol Based on Chemical Similarity. <i>Molecular Pharmaceutics</i> , 2012, 9, 3127-3135.	4.6	33
44	Factor V New Brunswick: Ala221Val associated with FV deficiency reproduced in vitro and functionally characterized. <i>Blood</i> , 2003, 102, 1316-1322.	1.4	31
45	Molecular models of the procoagulant Factor VIIIa-Factor IXa complex. <i>Journal of Thrombosis and Haemostasis</i> , 2005, 3, 2044-2056.	3.8	31
46	Fr-PPIChem: An Academic Compound Library Dedicated to Protein-Protein Interactions. <i>ACS Chemical Biology</i> , 2020, 15, 1566-1574.	3.4	29
47	Comparative structural and evolutionary analyses predict functional sites in the artemisinin resistance malaria protein K13. <i>Scientific Reports</i> , 2019, 9, 10675.	3.3	28
48	Integrated structure- and ligand-based in silico approach to predict inhibition of cytochrome P450 2D6. <i>Bioinformatics</i> , 2015, 31, 3930-3937.	4.1	27
49	Combining Ligand- and Structure-Based Methods in Drug Design Projects. <i>Current Computer-Aided Drug Design</i> , 2008, 4, 250-258.	1.2	27
50	MED-3DMC: A new tool to generate 3D conformation ensembles of small molecules with a Monte Carlo sampling of the conformational space. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 1405-1409.	5.5	26
51	Pan-assay interference compounds (PAINS) that may not be too painful for chemical biology projects. <i>Drug Discovery Today</i> , 2017, 22, 1131-1133.	6.4	26
52	1,2,4-Oxadiazoles Identified by Virtual Screening and their Non-Covalent Inhibition of the Human 20S Proteasome. <i>Current Medicinal Chemistry</i> , 2013, 20, 2351-2362.	2.4	25
53	Online structure-based screening of purchasable approved drugs and natural compounds: retrospective examples of drug repositioning on cancer targets. <i>Oncotarget</i> , 2018, 9, 32346-32361.	1.8	25
54	Structural Dynamics of DPP-4 and Its Influence on the Projection of Bioactive Ligands. <i>Molecules</i> , 2018, 23, 490.	3.8	25

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55	Analysis of protein missense alterations by combining sequence- and structure-based methods. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2020, 8, e1166.	1.2	25
56	Post-docking virtual screening of diverse binding pockets: Comparative study using DOCK, AMMOS, X-Score and FRED scoring functions. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 2622-2628.	5.5	24
57	AMMOS2: a web server for protein-ligand-water complexes refinement via molecular mechanics. <i>Nucleic Acids Research</i> , 2017, 45, W350-W355.	14.5	24
58	Insights into molecular mechanisms of drug metabolism dysfunction of human CYP2C9*30. <i>PLoS ONE</i> , 2018, 13, e0197249.	2.5	24
59	Calculating the Protonation States of Proteins and Small Molecules: Implications to Ligand-Receptor Interactions. <i>Current Computer-Aided Drug Design</i> , 2008, 4, 169-179.	1.2	24
60	Tyrosine Kinase Syk Non-Enzymatic Inhibitors and Potential Anti-Allergic Drug-Like Compounds Discovered by Virtual and In Vitro Screening. <i>PLoS ONE</i> , 2011, 6, e21117.	2.5	23
61	In Silico Mechanistic Profiling to Probe Small Molecule Binding to Sulfotransferases. <i>PLoS ONE</i> , 2013, 8, e73587.	2.5	23
62	Sampling of conformational ensemble for virtual screening using molecular dynamics simulations and normal mode analysis. <i>Future Medicinal Chemistry</i> , 2015, 7, 2317-2331.	2.3	22
63	Discoidin Domains as Emerging Therapeutic Targets. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 641-659.	8.7	21
64	Rational Design of Small-Molecule Stabilizers of Spermine Synthase Dimer by Virtual Screening and Free Energy-Based Approach. <i>PLoS ONE</i> , 2014, 9, e110884.	2.5	20
65	Analysis of solvent-exposed and buried co-crystallized ligands: a case study to support the design of novel protein-protein interaction inhibitors. <i>Drug Discovery Today</i> , 2019, 24, 551-559.	6.4	20
66	Design and synthesis of novel bis-thiazolone derivatives as micromolar CDC25 phosphatase inhibitors: Effect of dimerisation on phosphatase inhibition. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 7345-7350.	2.2	19
67	Theoretical and Experimental Study of the D2194G Mutation in the C2 Domain of Coagulation Factor V. <i>Biophysical Journal</i> , 2004, 86, 488-498.	0.5	18
68	A rational free energy-based approach to understanding and targeting disease-causing missense mutations. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, 643-651.	4.4	18
69	Insights into an Original Pocket-Ligand Pair Classification: A Promising Tool for Ligand Profile Prediction. <i>PLoS ONE</i> , 2013, 8, e63730.	2.5	18
70	Screening Outside the Catalytic Site: Inhibition of Macromolecular Interactions Through Structure-Based Virtual Ligand Screening Experiments. <i>The Open Biochemistry Journal</i> , 2008, 2, 29-37.	0.5	17
71	A Free Web-Based Protocol to Assist Structure-Based Virtual Screening Experiments. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4648.	4.1	16
72	Insights into the substrate binding mechanism of SULT1A1 through molecular dynamics with excited normal modes simulations. <i>Scientific Reports</i> , 2021, 11, 13129.	3.3	16

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73	Noonan syndrome type I with <i>PTPN11</i> 3 bp deletion: Structure–function implications. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 58, 7-13.	2.6	15
74	Exploring NMR ensembles of calcium binding proteins: Perspectives to design inhibitors of protein-protein interactions. <i>BMC Structural Biology</i> , 2011, 11, 24.	2.3	15
75	In silico model of the human ClC-Kb chloride channel: pore mapping, biostructural pathology and drug screening. <i>Scientific Reports</i> , 2017, 7, 7249.	3.3	15
76	Blockade of the malignant phenotype by $\beta$ -subunit selective noncovalent inhibition of immuno- and constitutive proteasomes. <i>Oncotarget</i> , 2017, 8, 10437-10449.	1.8	13
77	Machine learning-driven identification of drugs inhibiting cytochrome P450 2C9. <i>PLoS Computational Biology</i> , 2022, 18, e1009820.	3.2	11
78	Local electrostatic potentials in pyridoxal phosphate labelled horse heart cytochrome c. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 37, 74-83.	3.8	9
79	pH-dependent stability of sperm whale myoglobin in water-guanidine hydrochloride solutions. <i>European Biophysics Journal</i> , 2003, 31, 617-625.	2.2	9
80	A critical role for Gly25 in the B chain of human thrombin. <i>Journal of Thrombosis and Haemostasis</i> , 2005, 3, 139-145.	3.8	9
81	Hierarchical Structure-Based Virtual Screening for Drug Design. <i>Biotechnology and Biotechnological Equipment</i> , 2008, 22, 634-638.	1.3	9
82	Three-dimensional structure generators of drug-like compounds: DG-AMMOS, an open-source package. <i>Expert Opinion on Drug Discovery</i> , 2011, 6, 339-351.	5.0	9
83	Computational analysis of protein-protein interfaces involving an alpha helix: insights for terphenyl-like molecules binding. <i>BMC Pharmacology &amp; Toxicology</i> , 2013, 14, 31.	2.4	9
84	Insights into the interaction of high potency inhibitor IRC083864 with phosphatase CDC25. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 593-601.	2.6	7
85	Characterization of pyridoxal phosphate as an optical label for measuring electrostatic potentials in proteins. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996, 32, 71-79.	3.8	6
86	Tampering with Cell Division by Using Small-Molecule Inhibitors of CDK–CKS Protein Interactions. <i>ChemBioChem</i> , 2015, 16, 432-439.	2.6	6
87	Post-Docking Optimization and Analysis of Protein-Ligand Interactions of Estrogen Receptor Alpha using AMMOS Software. <i>Current Computer-Aided Drug Design</i> , 2013, 9, 83-94.	1.2	5
88	Numerical simulation of aldolase tetramer stability. <i>European Biophysics Journal</i> , 1998, 28, 67-73.	2.2	4
89	Identification of insulin-sensitizing molecules acting by disrupting the interaction between the Insulin Receptor and Grb14. <i>Scientific Reports</i> , 2017, 7, 16901.	3.3	4
90	Binding of phenothiazines into allosteric hydrophobic pocket of human thioredoxin 1. <i>European Biophysics Journal</i> , 2016, 45, 279-286.	2.2	3

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91	Computational Biology and Chemistry in MTi: Emphasis on the Prediction of Some ADMET Properties. <i>Molecular Informatics</i> , 2017, 36, 1700008.	2.5	3
92	Computational Analysis of Chemical Space of Natural Compounds Interacting with Sulfotransferases. <i>Molecules</i> , 2021, 26, 6360.	3.8	3
93	Post-docking optimization and analysis of protein-ligand interactions of estrogen receptor alpha using AMMOS software. <i>Current Computer-Aided Drug Design</i> , 2013, 9, 83-94.	1.2	3
94	AMMOS Software: Method and Application. <i>Methods in Molecular Biology</i> , 2012, 819, 127-141.	0.9	2
95	Prediction and structural analysis of the enthalpy of ionization of proteins. <i>Thermochimica Acta</i> , 1997, 291, 141-153.	2.7	1
96	Protein Structure Analysis Online. <i>Current Protocols in Protein Science</i> , 2007, 50, Unit 2.13.	2.8	1
97	Spectrophotometric titration of ionisable groups in proteins: a theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 2033-2041.	3.9	0
98	Post-Docking Optimization and Analysis of Protein-Ligand Interactions of Estrogen Receptor Alpha using AMMOS Software. <i>Current Computer-Aided Drug Design</i> , 2013, 9, 83-94.	1.2	0
99	In Silico Approaches Assisting the Rational Design of Low Molecular Weight Proteinâ€™Protein Interaction Modulators. , 2015, , 441-482.		0
100	Assessment of some pesticides interactions with human cytochrome P450: CYP2C8, CYP2C9 and CYP2C19 by molecular docking approach. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0