

# Irini Doytchinova

## 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.

109  
papers

4,857  
citations

31  
h-index

68  
g-index

116  
ext. papers

6,019  
ext. citations

4.1  
avg. IF

5.86  
L-index

#	Paper	IF	Citations
109	Beneficial effects of the fructus Sophorae extract on experimentally induced osteoporosis in New Zealand white rabbits. <i>Acta Pharmaceutica</i> , <b>2022</b> , 72, 289-302	3.2	0
108	In Silico Identification of the B-Cell and T-Cell Epitopes of the Antigenic Proteins of Staphylococcus aureus for Potential Vaccines.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2412, 439-447	1.4	
107	Virtual Screening and Hit Selection of Natural Compounds as Acetylcholinesterase Inhibitors. <i>Molecules</i> , <b>2022</b> , 27, 3139	4.8	1
106	A Novel Galantamine-Curcumin Hybrid as a Potential Multi-Target Agent against Neurodegenerative Disorders. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6
105	Discovery of a Novel Acetylcholinesterase Inhibitor by Fragment-Based Design and Virtual Screening. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
104	Predicting Immunogenicity Risk in Biopharmaceuticals. <i>Symmetry</i> , <b>2021</b> , 13, 388	2.7	1
103	An Alignment-Independent Platform for Allergenicity Prediction. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2131, 147-153	1.4	1
102	Design of Multi-Epitope Vaccine against SARS-CoV-2. <i>Cybernetics and Information Technologies</i> , <b>2020</b> , 20, 185-193	1.3	
101	Immunoinformatic Analysis of Human Thyroglobulin. <i>Cybernetics and Information Technologies</i> , <b>2020</b> , 20, 194-200	1.3	
100	Bacterial Immunogenicity Prediction by Machine Learning Methods. <i>Vaccines</i> , <b>2020</b> , 8,	5.3	4
99	Galantamine-Curcumin Hybrids as Dual-Site Binding Acetylcholinesterase Inhibitors. <i>Molecules</i> , <b>2020</b> , 25,	4.8	10
98	Curcumin Inhibits the Primary Nucleation of Amyloid-Beta Peptide: A Molecular Dynamics Study. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	6
97	In-depth characterization of the GOTCAB saponins in seven cultivated Gypsophila L. species (Caryophyllaceae) by liquid chromatography coupled with quadrupole-Orbitrap mass spectrometer. <i>Biochemical Systematics and Ecology</i> , <b>2019</b> , 83, 91-102	1.4	5
96	Protein-engineered molecules carrying GAD65 epitopes and targeting CD35 selectively down-modulate disease-associated human B lymphocytes. <i>Clinical and Experimental Immunology</i> , <b>2019</b> , 197, 329-340	6.2	5
95	Bone protective effects of purified extract from Ruscus aculeatus on ovariectomy-induced osteoporosis in rats. <i>Food and Chemical Toxicology</i> , <b>2019</b> , 132, 110668	4.7	9
94	Hepato-, neuroprotective effects and QSAR studies on flavoalkaloids and flavonoids from Astragalus monspessulanus. <i>Biotechnology and Biotechnological Equipment</i> , <b>2019</b> , 33, 1434-1443	1.6	4
93	Bridging solvent molecules mediate RNase A - Ligand binding. <i>PLoS ONE</i> , <b>2019</b> , 14, e0224271	3.7	4

92	VaxiJen Dataset of Bacterial Immunogens: An Update. <i>Current Computer-Aided Drug Design</i> , <b>2019</b> , 15, 398-400	1.4	12
91	Novel hits for acetylcholinesterase inhibition derived by docking-based screening on ZINC database. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2018</b> , 33, 768-776	5.6	17
90	Proteochemometrics for the Prediction of Peptide Binding to Multiple HLA Class II Proteins. <i>Methods in Pharmacology and Toxicology</i> , <b>2018</b> , 395-404	1.1	1
89	Galantamine Derivatives as Acetylcholinesterase Inhibitors: Docking, Design, Synthesis, and Inhibitory Activity. <i>Neuromethods</i> , <b>2018</b> , 163-176	0.4	3
88	In silico prediction of cancer immunogens: current state of the art. <i>BMC Immunology</i> , <b>2018</b> , 19, 11	3.7	6
87	Synthetic piperine amide analogs with antimycobacterial activity. <i>Chemical Biology and Drug Design</i> , <b>2018</b> , 91, 763-768	2.9	13
86	Proteochemometrics-Based Prediction of Peptide Binding to HLA-DP Proteins. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 297-304	6.1	11
85	Docking-based design and synthesis of galantamine-camphane hybrids as inhibitors of acetylcholinesterase. <i>Chemical Biology and Drug Design</i> , <b>2017</b> , 90, 709-718	2.9	20
84	Immunogenicity Prediction by VaxiJen: A Ten Year Overview. <i>Journal of Proteomics and Bioinformatics</i> , <b>2017</b> , 10,	2.1	10
83	Associations between Milk and Egg Allergens and the HLA-DRB1/DQ Polymorphism: A Bioinformatics Approach. <i>International Archives of Allergy and Immunology</i> , <b>2016</b> , 169, 33-9	3.7	11
82	Proteochemometrics for the Prediction of Binding to the MHC Proteins. <i>Letters in Drug Design and Discovery</i> , <b>2016</b> , 14, 2-9	0.8	2
81	Docking-based Design of Galantamine Derivatives with Dual-site Binding to Acetylcholinesterase. <i>Molecular Informatics</i> , <b>2016</b> , 35, 278-85	3.8	15
80	Design, Synthesis, and Antimycobacterial Activity of Novel Theophylline-7-Acetic Acid Derivatives With Amino Acid Moieties. <i>Chemical Biology and Drug Design</i> , <b>2016</b> , 87, 335-41	2.9	10
79	A Cohesive and Integrated Platform for Immunogenicity Prediction. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1404, 761-770	1.4	5
78	Galantamine derivatives with indole moiety: Docking, design, synthesis and acetylcholinesterase inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , <b>2015</b> , 23, 5382-9	3.4	59
77	Peptide Binding Prediction to Five Most Frequent HLA-DQ Proteins - a Proteochemometric Approach. <i>Molecular Informatics</i> , <b>2015</b> , 34, 467-76	3.8	4
76	Molecular Docking Study on Galantamine Derivatives as Cholinesterase Inhibitors. <i>Molecular Informatics</i> , <b>2015</b> , 34, 394-403	3.8	19
75	Quantitative Structure - Pharmacokinetics Relationships Analysis of Basic Drugs: Volume of Distribution. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , <b>2015</b> , 18, 515-27	3.4	7

74	Antimycobacterial activity of chiral aminoalcohols with camphane scaffold. <i>European Journal of Medicinal Chemistry</i> , <b>2014</b> , 81, 150-7	6.8	13
73	AllergenFP: allergenicity prediction by descriptor fingerprints. <i>Bioinformatics</i> , <b>2014</b> , 30, 846-51	7.2	249
72	AllerTOP v.2--a server for in silico prediction of allergens. <i>Journal of Molecular Modeling</i> , <b>2014</b> , 20, 2278-2		305
71	Design of novel camphane-based derivatives with antimycobacterial activity. <i>Journal of Molecular Graphics and Modelling</i> , <b>2014</b> , 51, 7-12	2.8	3
70	Allergenicity prediction by artificial neural networks. <i>Journal of Chemometrics</i> , <b>2014</b> , 28, 282-286	1.6	6
69	Quantitative Structure-Activity Relationship Study on Saponins as Cytotoxicity Enhancers. <i>Letters in Drug Design and Discovery</i> , <b>2014</b> , 12, 166-171	0.8	11
68	Histidine hydrogen bonding in MHC at pH 5 and pH 7 modeled by molecular docking and molecular dynamics simulations. <i>Current Computer-Aided Drug Design</i> , <b>2014</b> , 10, 41-9	1.4	4
67	AllerTOP--a server for in silico prediction of allergens. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 6, S4	3.6	156
66	Quantitative structure--clearance relationships of acidic drugs. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 3758-68		10
65	Phenolic derivatives in raspberry ( <i>Rubus L.</i> ) germplasm collection in Bulgaria. <i>Biochemical Systematics and Ecology</i> , <b>2013</b> , 50, 419-427	1.4	13
64	EpiDOCK: a molecular docking-based tool for MHC class II binding prediction. <i>Protein Engineering, Design and Selection</i> , <b>2013</b> , 26, 631-4	1.9	36
63	Novel camphane-based anti-tuberculosis agents with nanomolar activity. <i>European Journal of Medicinal Chemistry</i> , <b>2013</b> , 70, 372-9	6.8	24
62	Quantitative prediction of peptide binding to HLA-DP1 protein. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2013</b> , 10, 811-5	3	4
61	T-cell epitope vaccine design by immunoinformatics. <i>Open Biology</i> , <b>2013</b> , 3, 120139	7	241
60	Prediction of steady-state volume of distribution of acidic drugs by quantitative structure-pharmacokinetics relationships. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 1253-66	3.9	15
59	Quantitative structure--plasma protein binding relationships of acidic drugs. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 4627-41	3.9	19
58	Peptide binding to HLA-DP proteins at pH 5.0 and pH 7.0: a quantitative molecular docking study. <i>BMC Structural Biology</i> , <b>2012</b> , 12, 20	2.7	15
57	Synthesis, 5-HT1A and 5-HT2A receptor affinity and QSAR study of 1-benzhydryl-piperazine derivatives with xanthine moiety at N4. <i>Medicinal Chemistry Research</i> , <b>2012</b> , 21, 477-486	2.2	1

56	Preparation and evaluation of isosorbide mononitrate hydrogels for topical fissure treatment. <i>Current Drug Delivery</i> , <b>2012</b> , 9, 452-8	3.2	6
55	Peptide binding prediction for the human class II MHC allele HLA-DP2: a molecular docking approach. <i>BMC Structural Biology</i> , <b>2011</b> , 11, 32	2.7	38
54	HLA-DP2 binding prediction by molecular dynamics simulations. <i>Protein Science</i> , <b>2011</b> , 20, 1918-28	6.3	12
53	MHC Class II Binding Prediction by Molecular Docking. <i>Molecular Informatics</i> , <b>2011</b> , 30, 368-75	3.8	14
52	Platinum complexes with 5-methyl-5(4-pyridyl)hydantoin and its 3-methyl derivatives: synthesis and cytotoxic activity - quantitative structure-activity relationships. <i>Archiv Der Pharmazie</i> , <b>2011</b> , 344, 209-16	4.3	9
51	MHC Class II Binding Prediction-A Little Help from a Friend. <i>Journal of Biomedicine and Biotechnology</i> , <b>2010</b> , 2010, 705821		17
50	EpiTOP--a proteochemometric tool for MHC class II binding prediction. <i>Bioinformatics</i> , <b>2010</b> , 26, 2066-8	7.2	43
49	Different approaches for determination of the attachment degree of polyethylene glycols to poly(anhydride) nanoparticles. <i>Drug Development and Industrial Pharmacy</i> , <b>2010</b> , 36, 676-80	3.6	5
48	Peptide binding to the HLA-DRB1 supertype: a proteochemometrics analysis. <i>European Journal of Medicinal Chemistry</i> , <b>2010</b> , 45, 236-43	6.8	24
47	Synthesis of some new S-triazine based chalcones and their derivatives as potent antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , <b>2010</b> , 45, 510-8	6.8	73
46	Integrating in silico and in vitro analysis of peptide binding affinity to HLA-Cw*0102: a bioinformatic approach to the prediction of new epitopes. <i>PLoS ONE</i> , <b>2009</b> , 4, e8095	3.7	13
45	Topical anal fissure treatment: placebo-controlled study of mononitrate and trinitrate therapies. <i>International Journal of Colorectal Disease</i> , <b>2009</b> , 24, 461-4	3	16
44	In Silico QSAR-Based Predictions of Class I and Class II MHC Epitopes <b>2008</b> , 63-89		
43	QSAR and the Prediction of T-Cell Epitopes. <i>Current Proteomics</i> , <b>2008</b> , 5, 73-95	0.7	6
42	Predicting class I major histocompatibility complex (MHC) binders using multivariate statistics: comparison of discriminant analysis and multiple linear regression. <i>Journal of Chemical Information and Modeling</i> , <b>2007</b> , 47, 234-8	6.1	21
41	VaxiJen: a server for prediction of protective antigens, tumour antigens and subunit vaccines. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 4	3.6	1001
40	Using databases and data mining in vaccinology. <i>Expert Opinion on Drug Discovery</i> , <b>2007</b> , 2, 19-35	6.2	8
39	Identifying candidate subunit vaccines using an alignment-independent method based on principal amino acid properties. <i>Vaccine</i> , <b>2007</b> , 25, 856-66	4.1	102

38	EpiJen: a server for multistep T cell epitope prediction. <i>BMC Bioinformatics</i> , <b>2006</b> , 7, 131	3.6	118
37	MHCPred 2.0: an updated quantitative T-cell epitope prediction server. <i>Applied Bioinformatics</i> , <b>2006</b> , 5, 55-61		53
36	Toward prediction of class II mouse major histocompatibility complex peptide binding affinity: in silico bioinformatic evaluation using partial least squares, a robust multivariate statistical technique. <i>Journal of Chemical Information and Modeling</i> , <b>2006</b> , 46, 1491-502	6.1	22
35	Modeling the peptide-T cell receptor interaction by the comparative molecular similarity indices analysis-soft independent modeling of class analogy technique. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 2193-9	8.3	17
34	Class I T-cell epitope prediction: improvements using a combination of proteasome cleavage, TAP affinity, and MHC binding. <i>Molecular Immunology</i> , <b>2006</b> , 43, 2037-44	4.3	28
33	Synthesis and antiproliferative activity of benzo[d]isothiazole hydrazones. <i>European Journal of Medicinal Chemistry</i> , <b>2006</b> , 41, 624-32	6.8	128
32	Analysis of peptide-protein binding using amino acid descriptors: prediction and experimental verification for human histocompatibility complex HLA-A0201. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 7418-25	8.3	43
31	In silico prediction of peptide binding affinity to class I mouse major histocompatibility complexes: a comparative molecular similarity index analysis (CoMSIA) study. <i>Journal of Chemical Information and Modeling</i> , <b>2005</b> , 45, 1415-23	6.1	17
30	Towards the chemometric dissection of peptide--HLA-A*0201 binding affinity: comparison of local and global QSAR models. <i>Journal of Computer-Aided Molecular Design</i> , <b>2005</b> , 19, 203-12	4.2	43
29	In silico identification of supertypes for class II MHCs. <i>Journal of Immunology</i> , <b>2005</b> , 174, 7085-95	5.3	151
28	Coupling in silico and in vitro analysis of peptide-MHC binding: a bioinformatic approach enabling prediction of superbinding peptides and anchorless epitopes. <i>Journal of Immunology</i> , <b>2004</b> , 172, 7495-502	5.3	63
27	Quantitative online prediction of peptide binding to the major histocompatibility complex. <i>Journal of Molecular Graphics and Modelling</i> , <b>2004</b> , 22, 195-207	2.8	43
26	New horizons in mouse immunoinformatics: reliable in silico prediction of mouse class I histocompatibility major complex peptide binding affinity. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 3274-83	3.9	16
25	Identifying human MHC supertypes using bioinformatic methods. <i>Journal of Immunology</i> , <b>2004</b> , 172, 4314-23	5.3	106
24	Transporter associated with antigen processing preselection of peptides binding to the MHC: a bioinformatic evaluation. <i>Journal of Immunology</i> , <b>2004</b> , 173, 6813-9	5.3	35
23	Quantitative structure-activity relationships and the prediction of MHC supermotifs. <i>Methods</i> , <b>2004</b> , 34, 444-53	4.6	24
22	Towards the in silico identification of class II restricted T-cell epitopes: a partial least squares iterative self-consistent algorithm for affinity prediction. <i>Bioinformatics</i> , <b>2003</b> , 19, 2263-70	7.2	68
21	Proteomics in Vaccinology and Immunobiology: An Informatics Perspective of the Immunone. <i>Journal of Biomedicine and Biotechnology</i> , <b>2003</b> , 2003, 267-290		23

20	A comparative molecular similarity indices (CoMSIA) study of peptide binding to the HLA-A3 superfamily. <i>Bioorganic and Medicinal Chemistry</i> , <b>2003</b> , 11, 2307-11	3.4	17
19	Aminothiazole derivatives with antidegenerative activity on cartilage. <i>Bioorganic and Medicinal Chemistry</i> , <b>2003</b> , 11, 2983-9	3.4	23
18	JenPep: a novel computational information resource for immunobiology and vaccinology. <i>Journal of Chemical Information and Computer Sciences</i> , <b>2003</b> , 43, 1276-87		65
17	The HLA-A2-supermotif: a QSAR definition. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 2648-54	3.9	31
16	MHCPred: A server for quantitative prediction of peptide-MHC binding. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 3621-4	20.1	188
15	Quantitative approaches to computational vaccinology. <i>Immunology and Cell Biology</i> , <b>2002</b> , 80, 270-9	5	40
14	Hydrazones of 1,2-benzisothiazole hydrazides: synthesis, antimicrobial activity and QSAR investigations. <i>European Journal of Medicinal Chemistry</i> , <b>2002</b> , 37, 553-64	6.8	215
13	Physicochemical explanation of peptide binding to HLA-A*0201 major histocompatibility complex: a three-dimensional quantitative structure-activity relationship study. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2002</b> , 48, 505-18	4.2	55
12	A comparative molecular similarity index analysis (CoMSIA) study identifies an HLA-A2 binding supermotif. <i>Journal of Computer-Aided Molecular Design</i> , <b>2002</b> , 16, 535-44	4.2	27
11	JenPep: a database of quantitative functional peptide data for immunology. <i>Bioinformatics</i> , <b>2002</b> , 18, 434-9	7.2	128
10	Adenosine A2A receptor agonists: CoMFA-based selection of the most predictive conformation. <i>SAR and QSAR in Environmental Research</i> , <b>2002</b> , 13, 227-35	3.5	3
9	Additive method for the prediction of protein-peptide binding affinity. Application to the MHC class I molecule HLA-A*0201. <i>Journal of Proteome Research</i> , <b>2002</b> , 1, 263-72	5.6	77
8	CoMFA Study on Adenosine A2A Receptor Agonists. <i>QSAR and Combinatorial Science</i> , <b>2001</b> , 20, 124-129		7
7	CoMFA-based comparison of two models of binding site on adenosine A1 receptor. <i>Journal of Computer-Aided Molecular Design</i> , <b>2001</b> , 15, 29-39	4.2	6
6	Toward the quantitative prediction of T-cell epitopes: coMFA and coMSIA studies of peptides with affinity for the class I MHC molecule HLA-A*0201. <i>Journal of Medicinal Chemistry</i> , <b>2001</b> , 44, 3572-81	8.3	115
5	Reversed-phase high-performance liquid chromatography for evaluating the distribution of pharmaceutical substances in suppository base-phosphate buffer system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2000</b> , 23, 955-64	3.5	18
4	2D and 3D QSAR analysis of some valproic acid metabolites and analogues as anticonvulsant agents. <i>Pharmaceutical Research</i> , <b>2000</b> , 17, 727-32	4.5	10
3	Biodegradable cross-linked prodrug of the bronchial dilator Vephylline. 2. Kinetics and quantum chemical studies on the release mechanism. <i>Journal of Controlled Release</i> , <b>1999</b> , 58, 189-94	11.7	3

2	Thiazolyl-N-substituted amides: A group of effective anti-inflammatory agents with potential for local anesthetic properties. Synthesis, biological evaluation, and a QSAR approach. <i>Drug Development Research</i> , <b>1999</b> , 48, 53-60	5.1	10
1	The Amaryllidaceae alkaloids: an untapped source of acetylcholinesterase inhibitors. <i>Phytochemistry Reviews</i> , 1	7.7	1