

Irini Doytchinova

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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	VaxiJen: a server for prediction of protective antigens, tumour antigens and subunit vaccines. <i>BMC Bioinformatics</i> , 2007 , 8, 4	3.6	1001
108	AllerTOP v.2--a server for in silico prediction of allergens. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2278-2		305
107	AllergenFP: allergenicity prediction by descriptor fingerprints. <i>Bioinformatics</i> , 2014 , 30, 846-51	7.2	249
106	T-cell epitope vaccine design by immunoinformatics. <i>Open Biology</i> , 2013 , 3, 120139	7	241
105	Hydrazones of 1,2-benzisothiazole hydrazides: synthesis, antimicrobial activity and QSAR investigations. <i>European Journal of Medicinal Chemistry</i> , 2002 , 37, 553-64	6.8	215
104	MHCPred: A server for quantitative prediction of peptide-MHC binding. <i>Nucleic Acids Research</i> , 2003 , 31, 3621-4	20.1	188
103	AllerTOP--a server for in silico prediction of allergens. <i>BMC Bioinformatics</i> , 2013 , 14 Suppl 6, S4	3.6	156
102	In silico identification of supertypes for class II MHCs. <i>Journal of Immunology</i> , 2005 , 174, 7085-95	5.3	151
101	Synthesis and antiproliferative activity of benzo[d]isothiazole hydrazones. <i>European Journal of Medicinal Chemistry</i> , 2006 , 41, 624-32	6.8	128
100	JenPep: a database of quantitative functional peptide data for immunology. <i>Bioinformatics</i> , 2002 , 18, 434-9	7.2	128
99	EpiJen: a server for multistep T cell epitope prediction. <i>BMC Bioinformatics</i> , 2006 , 7, 131	3.6	118
98	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> , 2001 , 44, 3572-81	8.3	115
97	Identifying human MHC supertypes using bioinformatic methods. <i>Journal of Immunology</i> , 2004 , 172, 4314-23	5.3	106
96	Identifying candidate subunit vaccines using an alignment-independent method based on principal amino acid properties. <i>Vaccine</i> , 2007 , 25, 856-66	4.1	102
95	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> , 2002 , 1, 263-72	5.6	77
94	Synthesis of some new S-triazine based chalcones and their derivatives as potent antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 510-8	6.8	73
93	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> , 2003 , 19, 2263-70	7.2	68

92	JenPep: a novel computational information resource for immunobiology and vaccinology. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1276-87		65
91	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> , 2004 , 172, 7495-502 ⁵³		63
90	Galantamine derivatives with indole moiety: Docking, design, synthesis and acetylcholinesterase inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 5382-9	3.4	59
89	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> , 2002 , 48, 505-18	4.2	55
88	MHCPred 2.0: an updated quantitative T-cell epitope prediction server. <i>Applied Bioinformatics</i> , 2006 , 5, 55-61		53
87	EpiTOP--a proteochemometric tool for MHC class II binding prediction. <i>Bioinformatics</i> , 2010 , 26, 2066-8	7.2	43
86	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> , 2005 , 48, 7418-25	8.3	43
85	Quantitative online prediction of peptide binding to the major histocompatibility complex. <i>Journal of Molecular Graphics and Modelling</i> , 2004 , 22, 195-207	2.8	43
84	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> , 2005 , 19, 203-12	4.2	43
83	Quantitative approaches to computational vaccinology. <i>Immunology and Cell Biology</i> , 2002 , 80, 270-9	5	40
82	Peptide binding prediction for the human class II MHC allele HLA-DP2: a molecular docking approach. <i>BMC Structural Biology</i> , 2011 , 11, 32	2.7	38
81	EpiDOCK: a molecular docking-based tool for MHC class II binding prediction. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 631-4	1.9	36
80	Transporter associated with antigen processing preselection of peptides binding to the MHC: a bioinformatic evaluation. <i>Journal of Immunology</i> , 2004 , 173, 6813-9	5.3	35
79	The HLA-A2-supermotif: a QSAR definition. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2648-54	3.9	31
78	Class I T-cell epitope prediction: improvements using a combination of proteasome cleavage, TAP affinity, and MHC binding. <i>Molecular Immunology</i> , 2006 , 43, 2037-44	4.3	28
77	A comparative molecular similarity index analysis (CoMSIA) study identifies an HLA-A2 binding supermotif. <i>Journal of Computer-Aided Molecular Design</i> , 2002 , 16, 535-44	4.2	27
76	Novel camphane-based anti-tuberculosis agents with nanomolar activity. <i>European Journal of Medicinal Chemistry</i> , 2013 , 70, 372-9	6.8	24
75	Peptide binding to the HLA-DRB1 supertype: a proteochemometrics analysis. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 236-43	6.8	24

74	Quantitative structure-activity relationships and the prediction of MHC supermotifs. <i>Methods</i> , 2004 , 34, 444-53	4.6	24
73	Proteomics in Vaccinology and Immunobiology: An Informatics Perspective of the Immunone. <i>Journal of Biomedicine and Biotechnology</i> , 2003 , 2003, 267-290		23
72	Aminothiazole derivatives with antidegenerative activity on cartilage. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 2983-9	3.4	23
71	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> , 2006 , 46, 1491-502	6.1	22
70	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> , 2007 , 47, 234-8	6.1	21
69	Docking-based design and synthesis of galantamine-camphane hybrids as inhibitors of acetylcholinesterase. <i>Chemical Biology and Drug Design</i> , 2017 , 90, 709-718	2.9	20
68	Molecular Docking Study on Galantamine Derivatives as Cholinesterase Inhibitors. <i>Molecular Informatics</i> , 2015 , 34, 394-403	3.8	19
67	Quantitative structure-plasma protein binding relationships of acidic drugs. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 4627-41	3.9	19
66	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> , 2000 , 23, 955-64	3.5	18
65	Novel hits for acetylcholinesterase inhibition derived by docking-based screening on ZINC database. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 768-776	5.6	17
64	MHC Class II Binding Prediction-A Little Help from a Friend. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 705821		17
63	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> , 2005 , 45, 1415-23	6.1	17
62	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> , 2006 , 49, 2193-9	8.3	17
61	A comparative molecular similarity indices (CoMSIA) study of peptide binding to the HLA-A3 superfamily. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 2307-11	3.4	17
60	Topical anal fissure treatment: placebo-controlled study of mononitrate and trinitrate therapies. <i>International Journal of Colorectal Disease</i> , 2009 , 24, 461-4	3	16
59	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> , 2004 , 2, 3274-83	3.9	16
58	Prediction of steady-state volume of distribution of acidic drugs by quantitative structure-pharmacokinetics relationships. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1253-66	3.9	15
57	Peptide binding to HLA-DP proteins at pH 5.0 and pH 7.0: a quantitative molecular docking study. <i>BMC Structural Biology</i> , 2012 , 12, 20	2.7	15

56	Docking-based Design of Galantamine Derivatives with Dual-site Binding to Acetylcholinesterase. <i>Molecular Informatics</i> , 2016 , 35, 278-85	3.8	15
55	MHC Class II Binding Prediction by Molecular Docking. <i>Molecular Informatics</i> , 2011 , 30, 368-75	3.8	14
54	Antimycobacterial activity of chiral aminoalcohols with camphane scaffold. <i>European Journal of Medicinal Chemistry</i> , 2014 , 81, 150-7	6.8	13
53	Phenolic derivatives in raspberry (<i>Rubus L.</i>) germplasm collection in Bulgaria. <i>Biochemical Systematics and Ecology</i> , 2013 , 50, 419-427	1.4	13
52	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> , 2009 , 4, e8095	3.7	13
51	Synthetic piperine amide analogs with antimycobacterial activity. <i>Chemical Biology and Drug Design</i> , 2018 , 91, 763-768	2.9	13
50	HLA-DP2 binding prediction by molecular dynamics simulations. <i>Protein Science</i> , 2011 , 20, 1918-28	6.3	12
49	VaxiJen Dataset of Bacterial Immunogens: An Update. <i>Current Computer-Aided Drug Design</i> , 2019 , 15, 398-400	1.4	12
48	Associations between Milk and Egg Allergens and the HLA-DRB1/DQ Polymorphism: A Bioinformatics Approach. <i>International Archives of Allergy and Immunology</i> , 2016 , 169, 33-9	3.7	11
47	Quantitative Structure-Activity Relationship Study on Saponins as Cytotoxicity Enhancers. <i>Letters in Drug Design and Discovery</i> , 2014 , 12, 166-171	0.8	11
46	Proteochemometrics-Based Prediction of Peptide Binding to HLA-DP Proteins. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 297-304	6.1	11
45	Immunogenicity Prediction by VaxiJen: A Ten Year Overview. <i>Journal of Proteomics and Bioinformatics</i> , 2017 , 10,	2.1	10
44	Quantitative structure-clearance relationships of acidic drugs. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3758-68	5.8	10
43	2D and 3D QSAR analysis of some valproic acid metabolites and analogues as anticonvulsant agents. <i>Pharmaceutical Research</i> , 2000 , 17, 727-32	4.5	10
42	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> , 1999 , 48, 53-60	5.1	10
41	Galantamine-Curcumin Hybrids as Dual-Site Binding Acetylcholinesterase Inhibitors. <i>Molecules</i> , 2020 , 25,	4.8	10
40	Design, Synthesis, and Antimycobacterial Activity of Novel Theophylline-7-Acetic Acid Derivatives With Amino Acid Moieties. <i>Chemical Biology and Drug Design</i> , 2016 , 87, 335-41	2.9	10
39	Bone protective effects of purified extract from <i>Ruscus aculeatus</i> on ovariectomy-induced osteoporosis in rats. <i>Food and Chemical Toxicology</i> , 2019 , 132, 110668	4.7	9

38	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> , 2011 , 344, 209-16	4.3	9
37	Using databases and data mining in vaccinology. <i>Expert Opinion on Drug Discovery</i> , 2007 , 2, 19-35	6.2	8
36	Quantitative Structure - Pharmacokinetics Relationships Analysis of Basic Drugs: Volume of Distribution. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2015 , 18, 515-27	3.4	7
35	CoMFA Study on Adenosine A2A Receptor Agonists. <i>QSAR and Combinatorial Science</i> , 2001 , 20, 124-129		7
34	In silico prediction of cancer immunogens: current state of the art. <i>BMC Immunology</i> , 2018 , 19, 11	3.7	6
33	Allergenicity prediction by artificial neural networks. <i>Journal of Chemometrics</i> , 2014 , 28, 282-286	1.6	6
32	Preparation and evaluation of isosorbide mononitrate hydrogels for topical fissure treatment. <i>Current Drug Delivery</i> , 2012 , 9, 452-8	3.2	6
31	QSAR and the Prediction of T-Cell Epitopes. <i>Current Proteomics</i> , 2008 , 5, 73-95	0.7	6
30	CoMFA-based comparison of two models of binding site on adenosine A1 receptor. <i>Journal of Computer-Aided Molecular Design</i> , 2001 , 15, 29-39	4.2	6
29	Curcumin Inhibits the Primary Nucleation of Amyloid-Beta Peptide: A Molecular Dynamics Study. <i>Biomolecules</i> , 2020 , 10,	5.9	6
28	A Novel Galantamine-Curcumin Hybrid as a Potential Multi-Target Agent against Neurodegenerative Disorders. <i>Molecules</i> , 2021 , 26,	4.8	6
27	In-depth characterization of the GOTCAB saponins in seven cultivated <i>Gypsophila L.</i> species (Caryophyllaceae) by liquid chromatography coupled with quadrupole-Orbitrap mass spectrometer. <i>Biochemical Systematics and Ecology</i> , 2019 , 83, 91-102	1.4	5
26	Protein-engineered molecules carrying GAD65 epitopes and targeting CD35 selectively down-modulate disease-associated human B lymphocytes. <i>Clinical and Experimental Immunology</i> , 2019 , 197, 329-340	6.2	5
25	Different approaches for determination of the attachment degree of polyethylene glycols to poly(anhydride) nanoparticles. <i>Drug Development and Industrial Pharmacy</i> , 2010 , 36, 676-80	3.6	5
24	A Cohesive and Integrated Platform for Immunogenicity Prediction. <i>Methods in Molecular Biology</i> , 2016 , 1404, 761-770	1.4	5
23	Hepato-, neuroprotective effects and QSAR studies on flavoalkaloids and flavonoids from <i>Astragalus monspessulanus</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2019 , 33, 1434-1443	1.6	4
22	Bridging solvent molecules mediate RNase A - Ligand binding. <i>PLoS ONE</i> , 2019 , 14, e0224271	3.7	4
21	Peptide Binding Prediction to Five Most Frequent HLA-DQ Proteins - a Proteochemometric Approach. <i>Molecular Informatics</i> , 2015 , 34, 467-76	3.8	4

20	Quantitative prediction of peptide binding to HLA-DP1 protein. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2013 , 10, 811-5	3	4
19	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> , 2014 , 10, 41-9	1.4	4
18	Bacterial Immunogenicity Prediction by Machine Learning Methods. <i>Vaccines</i> , 2020 , 8,	5.3	4
17	Galantamine Derivatives as Acetylcholinesterase Inhibitors: Docking, Design, Synthesis, and Inhibitory Activity. <i>Neuromethods</i> , 2018 , 163-176	0.4	3
16	Design of novel camphane-based derivatives with antimycobacterial activity. <i>Journal of Molecular Graphics and Modelling</i> , 2014 , 51, 7-12	2.8	3
15	Adenosine A2A receptor agonists: CoMFA-based selection of the most predictive conformation. <i>SAR and QSAR in Environmental Research</i> , 2002 , 13, 227-35	3.5	3
14	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> , 1999 , 58, 189-94	11.7	3
13	Proteochemometrics for the Prediction of Binding to the MHC Proteins. <i>Letters in Drug Design and Discovery</i> , 2016 , 14, 2-9	0.8	2
12	Discovery of a Novel Acetylcholinesterase Inhibitor by Fragment-Based Design and Virtual Screening. <i>Molecules</i> , 2021 , 26,	4.8	2
11	Proteochemometrics for the Prediction of Peptide Binding to Multiple HLA Class II Proteins. <i>Methods in Pharmacology and Toxicology</i> , 2018 , 395-404	1.1	1
10	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> , 2012 , 21, 477-486	2.2	1
9	An Alignment-Independent Platform for Allergenicity Prediction. <i>Methods in Molecular Biology</i> , 2020 , 2131, 147-153	1.4	1
8	The Amaryllidaceae alkaloids: an untapped source of acetylcholinesterase inhibitors. <i>Phytochemistry Reviews</i> ,1	7.7	1
7	Predicting Immunogenicity Risk in Biopharmaceuticals. <i>Symmetry</i> , 2021 , 13, 388	2.7	1
6	Virtual Screening and Hit Selection of Natural Compounds as Acetylcholinesterase Inhibitors. <i>Molecules</i> , 2022 , 27, 3139	4.8	1
5	Beneficial effects of the fructus Sophorae extract on experimentally induced osteoporosis in New Zealand white rabbits. <i>Acta Pharmaceutica</i> , 2022 , 72, 289-302	3.2	0
4	In Silico QSAR-Based Predictions of Class I and Class II MHC Epitopes 2008 , 63-89		
3	Design of Multi-Epitope Vaccine against SARS-CoV-2. <i>Cybernetics and Information Technologies</i> , 2020 , 20, 185-193	1.3	

- 2 Immunoinformatic Analysis of Human Thyroglobulin. *Cybernetics and Information Technologies*, **2020**, 20, 194-200 1.3
- 1 In Silico Identification of the B-Cell and T-Cell Epitopes of the Antigenic Proteins of *Staphylococcus aureus* for Potential Vaccines.. *Methods in Molecular Biology*, **2022**, 2412, 439-447 1.4