

# Maciej Baginski

## List of Publications by Year in descending order

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57  
papers

1,619  
citations

304368

22  
h-index

301761

39  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Molecular Dynamics Study of Lipid Membranes Containing Cholesterol and Ergosterol. <i>Biophysical Journal</i> , 2006, 90, 2368-2382.	0.2	153
2	Amphotericin B and Its New Derivatives – Mode of Action. <i>Current Drug Metabolism</i> , 2009, 10, 459-469.	0.7	142
3	Comparative molecular dynamics simulations of amphotericin B–cholesterol/ergosterol membrane channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1567, 63-78.	1.4	138
4	Molecular Properties of Amphotericin B Membrane Channel: A Molecular Dynamics Simulation. <i>Molecular Pharmacology</i> , 1997, 52, 560-570.	1.0	118
5	Electrostatic and non-electrostatic contributions to the binding free energies of anthracycline antibiotics to DNA. <i>Journal of Molecular Biology</i> , 1997, 274, 253-267.	2.0	104
6	Highly Conserved Homotrimer Cavity Formed by the SARS-CoV-2 Spike Glycoprotein: A Novel Binding Site. <i>Journal of Clinical Medicine</i> , 2020, 9, 1473.	1.0	73
7	How Do Sterols Determine the Antifungal Activity of Amphotericin B? Free Energy of Binding between the Drug and Its Membrane Targets. <i>Journal of the American Chemical Society</i> , 2010, 132, 18266-18272.	6.6	71
8	Molecular modelling of membrane activity of amphotericin B, a polyene macrolide antifungal antibiotic.. <i>Acta Biochimica Polonica</i> , 2019, 52, 655-658.	0.3	69
9	Comparative conformational analysis of cholesterol and ergosterol by molecular mechanics. <i>European Biophysics Journal</i> , 1989, 17, 159-166.	1.2	54
10	Induction of unique structural changes in guanine-rich DNA regions by the triazoloacridone C-1305, a topoisomerase II inhibitor with antitumor activities. <i>Nucleic Acids Research</i> , 2005, 33, 6034-6047.	6.5	48
11	Modulation of Amphotericin B Membrane Interaction by Cholesterol and Ergosterol: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16743-16753.	1.2	46
12	Interaction of amphotericin B and its selected derivatives with membranes: molecular modeling studies. <i>Chemical Record</i> , 2006, 6, 320-332.	2.9	45
13	On the Possibility of the Amphotericin B-Sterol Complex Formation in Cholesterol- and Ergosterol-Containing Lipid Bilayers: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15875-15885.	1.2	38
14	Molecular aspects of the interaction between amphotericin B and a phospholipid bilayer: molecular dynamics studies. <i>Journal of Molecular Modeling</i> , 2004, 10, 223-232.	0.8	34
15	The Effect of Sterols on Amphotericin B Self-Aggregation in a Lipid Bilayer as Revealed by Free Energy Simulations. <i>Biophysical Journal</i> , 2013, 104, 1485-1494.	0.2	34
16	MM/PBSA analysis of molecular dynamics simulations of bovine $\beta$ -lactoglobulin: Free energy gradients in conformational transitions?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 59, 91-103.	1.5	28
17	Influence of a lipid bilayer on the conformational behavior of amphotericin B derivatives – A molecular dynamics study. <i>Biophysical Chemistry</i> , 2009, 141, 105-116.	1.5	27
18	Effective Drug Concentration and Selectivity Depends on Fraction of Primitive Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4931.	1.8	27

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19	Conformational properties of amphotericin B amide derivatives—impact on selective toxicity. <i>Journal of Computer-Aided Molecular Design</i> , 2000, 14, 689-703.	1.3	25
20	Conformational analysis of Amphotericin B. <i>Biophysical Chemistry</i> , 1997, 65, 91-100.	1.5	24
21	Distribution of electrostatic potential around amphotericin B and its membrane targets. <i>Computational and Theoretical Chemistry</i> , 1997, 389, 139-146.	1.5	23
22	Ion passage pathways and thermodynamics of the amphotericin B membrane channel. <i>European Biophysics Journal</i> , 2002, 31, 294-305.	1.2	22
23	Membrane Sterols Modulate the Binding Mode of Amphotericin B without Affecting Its Affinity for a Lipid Bilayer. <i>Langmuir</i> , 2016, 32, 3452-3461.	1.6	22
24	Molecular modelling of membrane activity of amphotericin B, a polyene macrolide antifungal antibiotic. <i>Acta Biochimica Polonica</i> , 2005, 52, 655-8.	0.3	20
25	Binding free energy of selected anticancer compounds to DNA - theoretical calculations. <i>Journal of Molecular Modeling</i> , 2002, 8, 24-32.	0.8	17
26	Interactions of amphotericin B derivatives with lipid membranes—A molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2616-2626.	1.4	16
27	Interaction of cisplatin and two potential antitumoral platinum(II) complexes with a model lipid membrane: a combined NMR and MD study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1458-1468.	1.3	16
28	Photosensitive and pH-dependent activity of pyrazine-functionalized carbazole derivative as promising antifungal and imaging agent. <i>Scientific Reports</i> , 2020, 10, 11767.	1.6	16
29	Chapter 9 Interaction of Polyene Macrolide Antibiotics with Lipid Model Membranes. <i>Behavior Research Methods</i> , 2006, , 269-329.	2.3	14
30	The role of amphotericin B amine group basicity in its antifungal action. A theoretical approach. <i>Biophysical Chemistry</i> , 1994, 49, 241-250.	1.5	13
31	Structural and dynamic changes adopted by EmrE, multidrug transporter protein—Studies by molecular dynamics simulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2065-2074.	1.4	11
32	Structural and dynamic insights on the EmrE protein with TPP + and related substrates through molecular dynamics simulations. <i>Chemistry and Physics of Lipids</i> , 2018, 212, 1-11.	1.5	11
33	In silico design of telomerase inhibitors. <i>Drug Discovery Today</i> , 2020, 25, 1213-1222.	3.2	10
34	Molecular Modeling and Evaluation of Novel Dibenzopyrrole Derivatives as Telomerase Inhibitors and Potential Drug for Cancer Therapy. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 1196-1207.	1.9	9
35	Triazoloacridone C-1305 impairs XBP1 splicing by acting as a potential IRE1 $\alpha$ endoribonuclease inhibitor. <i>Cellular and Molecular Biology Letters</i> , 2021, 26, 11.	2.7	9
36	Relationship between Telomere Length, TERT Genetic Variability and TERT, TP53, SP1, MYC Gene Co-Expression in the Clinicopathological Profile of Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5164.	1.8	9

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37	Thermodynamic and electrostatic properties of ternary Oxytricha nova TEBPâ€“DNA complex. Journal of Structural Biology, 2005, 152, 169-184.	1.3	8
38	Identification of 1 <i>H</i> -indeneâ€“(1,3,5,6)-tetrol derivatives as potent pancreatic lipase inhibitors using molecular docking and molecular dynamics approach. Biotechnology and Applied Biochemistry, 2016, 63, 765-778.	1.4	8
39	Molecular mechanism of proton-coupled ligand translocation by the bacterial efflux pump EmrE. PLoS Computational Biology, 2021, 17, e1009454.	1.5	8
40	Novel chalcone-derived pyrazoles as potential therapeutic agents for the treatment of non-small cell lung cancer. Scientific Reports, 2022, 12, 3703.	1.6	7
41	Exploring Amphotericin B-Membrane Interactions: Free Energy Simulations. Biophysical Journal, 2013, 104, 250a.	0.2	6
42	From tryptophan to novel mitochondria-disruptive agent, synthesis and biological evaluation of 1,2,3,6-tetrasubstituted carbazoles. European Journal of Medicinal Chemistry, 2022, 238, 114453.	2.6	6
43	The structurally similar TRFH domain of TRF1 and TRF2 dimers shows distinct behaviour towards TIN2. Archives of Biochemistry and Biophysics, 2018, 642, 52-62.	1.4	5
44	Cell Density-Dependent Cytological Stage Profile and Its Application for a Screen of Cytostatic Agents Active Toward Leukemic Stem Cells. Stem Cells and Development, 2018, 27, 488-513.	1.1	5
45	Utilizing Genome-Wide mRNA Profiling to Identify the Cytotoxic Chemotherapeutic Mechanism of Triazoloacridone C-1305 as Direct Microtubule Stabilization. Cancers, 2020, 12, 864.	1.7	5
46	Molecular basis for the DNA damage induction and anticancer activity of asymmetrically substituted anthrapyridazone PDZ-7. Oncotarget, 2017, 8, 105137-105154.	0.8	5
47	Novel Anticancer Strategy Aimed at Targeting Shelterin Complexes by the Induction of Structural Changes in Telomeric DNA: Hitting two Birds with one Stone. Current Cancer Drug Targets, 2014, 14, 201-216.	0.8	5
48	Combined anticancer therapy with imidazoacridinone analogue Câ€“1305 and paclitaxel in human lung and colon cancer xenograftsâ€”Modulation of tumour angiogenesis. Journal of Cellular and Molecular Medicine, 2022, 26, 3950-3964.	1.6	5
49	Molecular basis and quantitative assessment of TRF1 and TRF2 protein interactions with TIN2 and Apollo peptides. European Biophysics Journal, 2017, 46, 171-187.	1.2	4
50	Ade NovoDesign Probe of a Dopamine Receptor Ligand Based on a Theoretical Approach. Bioorganic Chemistry, 1996, 24, 358-375.	2.0	2
51	How do Sterols Determine the Antifungal Effect of Amphotericin B? free Energy of Binding Between the Drug and its Membrane Targets. Biophysical Journal, 2011, 100, 156a.	0.2	2
52	Molecular basis and potential activity of HIVâ€“1 reverse transcriptase toward trimethylamineâ€“based compounds. Biotechnology and Applied Biochemistry, 2017, 64, 810-826.	1.4	1
53	The distribution of molecular electrostatic potential for antifungal antibiotic amphotericin B. AIP Conference Proceedings, 1995, , .	0.3	0
54	Molecular Properties of Telomeric TRF1/TRF2 - DNA Systems. Biophysical Journal, 2010, 98, 267a.	0.2	0

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55	New Insights into the Membrane Mechanism of Action of Amphotericin B from Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2012, 102, 96a.	0.2	0
56	SiMiSnoRNA: Collection of siRNA, miRNA, and snoRNA database for RNA interference / SiMiSnoRNA: RNA Interferans'ın siRNA, miRNA ve snoRNA veritabanında depolanan siRNA, miRNA, and snoRNA koleksiyonları. <i>Turkish Journal of Biochemistry</i> , 2015, 40, .	0.3	0
57	Extracting functional groups of ALLINI to design derivatives of FDA-approved drugs: Inhibition of HIV-1 integrase. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 594-607.	1.4	0