

Jack A Tuszynski

List of Publications by Year in descending order

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558
papers

12,099
citations

44444

50
h-index

66518

82
g-index

579
all docs

579
docs citations

579
times ranked

11750
citing authors

#	ARTICLE	IF	CITATIONS
19	Quantum Brain Dynamics and Holography. Dynamics, 2022, 2, 187-218.	0.5	3
20	Computational Prediction and Experimental Validation of the Unique Molecular Mode of Action of Scoulerine. Molecules, 2022, 27, 3991.	1.7	2
21	The Mechanisms of Action of Tumor Treating Fields. Cancer Research, 2022, 82, 3650-3658.	0.4	27
22	A new method for protein characterization and classification using geometrical features for 3D face analysis: An example of tubulin structures. Proteins: Structure, Function and Bioinformatics, 2021, 89, 53-67.	1.5	4
23	JAK inhibitors in immune-mediated rheumatic diseases: From a molecular perspective to clinical studies. Journal of Molecular Graphics and Modelling, 2021, 104, 107789.	1.3	2
24	Revealing and Attenuating the Electrostatic Properties of Tubulin and Its Polymers. Small, 2021, 17, 2003560.	5.2	7
25	Tyrosine Kinase Inhibitors Reduce Glucose Uptake by Binding to an Exofacial Site on hGLUT1: Influence on 18 F-FDG PET Uptake. Clinical and Translational Science, 2021, 14, 847-858.	1.5	5
26	Modeling the structure of the frameshift-stimulatory pseudoknot in SARS-CoV-2 reveals multiple possible conformers. PLoS Computational Biology, 2021, 17, e1008603.	1.5	38
27	Enhancing the activity of platinum-based drugs by improved inhibitors of ERCC1-XPF-mediated DNA repair. Cancer Chemotherapy and Pharmacology, 2021, 87, 259-267.	1.1	7
28	Synthesis, anticancer activity and molecular docking studies of N-deacetylthiocolchicine and 4-iodo-N-deacetylthiocolchicine derivatives. Bioorganic and Medicinal Chemistry, 2021, 32, 116014.	1.4	1
29	First Search for Dyons with the Full MoEDAL Trapping Detector in 13 TeV $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions. Physical Review Letters, 2021, 126, 071801.	2.9	20
30	Modeling Microtubule Counterion Distributions and Conductivity Using the Poisson-Boltzmann Equation. Frontiers in Molecular Biosciences, 2021, 8, 650757.	1.6	11
31	The Uniqueness of Albumin as a Carrier in Nanodrug Delivery. Molecular Pharmaceutics, 2021, 18, 1862-1894.	2.3	209
32	An insight into the anticancer potential of carbamates and thiocarbamates of 10-demethoxy-10-methylaminocolchicine. European Journal of Medicinal Chemistry, 2021, 215, 113282.	2.6	12
33	Non-equilibrium Quantum Brain Dynamics II: Formulation in 3+1 dimensions. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125706.	1.2	5
34	Multifractality nature of microtubule dynamic instability process. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125929.	1.2	5
35	Design and evaluation of albumin nanoparticles for the delivery of a novel β -tubulin polymerization inhibitor. Journal of Pharmacy and Pharmaceutical Sciences, 2021, 24, 344-362.	0.9	3
36	Disassembly of microtubules by intense terahertz pulses. Biomedical Optics Express, 2021, 12, 5812.	1.5	8

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37	Discovering Boolean Functions on Actin Networks. , 2021, , 103-148.		0
38	Application of Thermodynamics and Proteinâ€Protein Interaction Network Topology for Discovery of Potential New Treatments for Temporal Lobe Epilepsy. Applied Sciences (Switzerland), 2021, 11, 8059.	1.3	2
39	Computational Study of Potential Galectin-3 Inhibitors in the Treatment of COVID-19. Biomedicines, 2021, 9, 1208.	1.4	6
40	In silico identification of RBD subdomain of spike protein from Pro322-Thr581 for applications in vaccine development against SARS-CoV2. Journal of Molecular Structure, 2021, 1240, 130534.	1.8	2
41	Computational determination of toxicity risks associated with a selection of approved drugs having demonstrated activity against COVID-19. BMC Pharmacology & Toxicology, 2021, 22, 61.	1.0	5
42	How Do Tumor-Treating Fields Work?. , 2021, , 19-35.		0
43	On the significance of the electrostatic differences between cancer and normal cells. Physics of Life Reviews, 2021, 40, 57-57.	1.5	1
44	Quantum paradigms in psychopathology: multiscale investigations from biomolecular qubits to the brain, and its pathological states. Journal of Integrative Neuroscience, 2021, 20, 1111-1114.	0.8	1
45	Gibbs Free Energy, a Thermodynamic Measure of Proteinâ€Protein Interactions, Correlates with Neurologic Disability. BioMedInformatics, 2021, 1, 201-210.	1.0	1
46	Synthesis, antiproliferative activity, and molecular docking studies of 4â€chlorothiocolchicine analogues. Chemical Biology and Drug Design, 2020, 95, 182-191.	1.5	4
47	Computerâ€aided drug design of small molecule inhibitors of the ERCC1â€XPF proteinâ€protein interaction. Chemical Biology and Drug Design, 2020, 95, 460-471.	1.5	15
48	Charge-based interactions of antimicrobial peptides and general drugs with lipid bilayers. Journal of Molecular Graphics and Modelling, 2020, 95, 107502.	1.3	13
49	Nonequilibrium quantum brain dynamics. Advances in Quantum Chemistry, 2020, 82, 159-180.	0.4	2
50	All Wired Up: An Exploration of the Electrical Properties of Microtubules and Tubulin. ACS Nano, 2020, 14, 16301-16320.	7.3	22
51	New Series of Double-Modified Colchicine Derivatives: Synthesis, Cytotoxic Effect and Molecular Docking. Molecules, 2020, 25, 3540.	1.7	8
52	Design, synthesis and inÂvitro cell-free/cell-based biological evaluations of novel ERCC1-XPF inhibitors targeting DNA repair pathway. European Journal of Medicinal Chemistry, 2020, 204, 112658.	2.6	6
53	Cell death and survival due to cytotoxic exposure modelled as a two-state Ising system. Royal Society Open Science, 2020, 7, 191578.	1.1	4
54	Testing amino acid-codon affinity hypothesis using molecular docking. BioSystems, 2020, 198, 104251.	0.9	1

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55	A search for the physical basis of the genetic code. <i>BioSystems</i> , 2020, 195, 104148.	0.9	3
56	In silico Investigations of the Mode of Action of Novel Colchicine Derivatives Targeting β -Tubulin Isotypes: A Search for a Selective and Specific β -III Tubulin Ligand. <i>Frontiers in Chemistry</i> , 2020, 8, 108.	1.8	15
57	Personalized therapy design for systemic lupus erythematosus based on the analysis of protein-protein interaction networks. <i>PLoS ONE</i> , 2020, 15, e0226883.	1.1	3
58	Liver Bioreactor Design Issues of Fluid Flow and Zonation, Fibrosis, and Mechanics: A Computational Perspective. <i>Journal of Functional Biomaterials</i> , 2020, 11, 13.	1.8	6
59	Computational molecular modelling as a platform for a deeper understanding of protein dynamics and rational drug design. <i>Biomedical Science and Engineering</i> , 2020, .	0.0	0
60	The development of a targeted and more potent, anti-inflammatory derivative of colchicine: Implications for gout. <i>Biochemical Pharmacology</i> , 2020, 180, 114125.	2.0	10
61	Comparative Analysis, Structural Insights, and Substrate/Drug Interaction of CYP128A1 in <i>Mycobacterium tuberculosis</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 4816.	1.8	7
62	Investigation of the Electrical Properties of Microtubule Ensembles under Cell-Like Conditions. <i>Nanomaterials</i> , 2020, 10, 265.	1.9	14
63	Dataset on interactions of membrane active agents with lipid bilayers. <i>Data in Brief</i> , 2020, 29, 105138.	0.5	2
64	Revealing and Attenuating the Electrostatic Properties of Tubulin and Microtubules. <i>Biophysical Journal</i> , 2020, 118, 622a.	0.2	0
65	Synthesis, biological evaluation and molecular docking studies of new amides of 4-chlorothiocolchicine as anticancer agents. <i>Bioorganic Chemistry</i> , 2020, 97, 103664.	2.0	14
66	Microtubules as Sub-Cellular Memristors. <i>Scientific Reports</i> , 2020, 10, 2108.	1.6	35
67	Using the Gibbs Function as a Measure of Human Brain Development Trends from Fetal Stage to Advanced Age. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1116.	1.8	5
68	Structural and Evolutionary Analysis Indicate That the SARS-CoV-2 Mpro Is a Challenging Target for Small-Molecule Inhibitor Design. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3099.	1.8	137
69	Synthesis, Antiproliferative Activity and Molecular Docking Studies of Novel Doubly Modified Colchicine Amides and Sulfonamides as Anticancer Agents. <i>Molecules</i> , 2020, 25, 1789.	1.7	31
70	Actin networks voltage circuits. <i>Physical Review E</i> , 2020, 101, 052314.	0.8	5
71	Non-Equilibrium Quantum Electrodynamics in Open Systems as a Realizable Representation of Quantum Field Theory of the Brain. <i>Entropy</i> , 2020, 22, 43.	1.1	3
72	From quantum chemistry to quantum biology: a path toward consciousness. <i>Journal of Integrative Neuroscience</i> , 2020, 19, 687.	0.8	15

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73	Behavior of $\hat{\Gamma}_\pm$, $\hat{\Gamma}_2$ tubulin in DMSO-containing electrolytes. <i>Nanoscale Advances</i> , 2019, 1, 3364-3371.	2.2	6
74	Targeting DNA Repair in Tumor Cells via Inhibition of ERCC1-XPF. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 7684-7696.	2.9	18
75	Tubulin response to intense nanosecond-scale electric field in molecular dynamics simulation. <i>Scientific Reports</i> , 2019, 9, 10477.	1.6	45
76	Synthesis, biological evaluation and molecular docking studies of new amides of 4-bromothiocolchicine as anticancer agents. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115144.	1.4	10
77	Signaling Complexity Measured by Shannon Entropy and Its Application in Personalized Medicine. <i>Frontiers in Genetics</i> , 2019, 10, 930.	1.1	22
78	Docosahexaenoic Acid Inhibits PTP1B Phosphatase and the Viability of MCF-7 Breast Cancer Cells. <i>Nutrients</i> , 2019, 11, 2554.	1.7	9
79	Tubulin: Structure, Functions and Roles in Disease. <i>Cells</i> , 2019, 8, 1294.	1.8	68
80	Magnetic Monopole Search with the Full MoEDAL Trapping Detector in 13 TeV $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\rangle \langle \text{mml:mi}\rangle \text{p} \langle \text{mml:mi}\rangle \langle \text{mml:mi}\rangle \text{p} \langle \text{mml:mi}\rangle \langle \text{mml:math}\rangle$ Collisions Interpreted in Photon-Fusion and Drell-Yan Production. <i>Physical Review Letters</i> , 2019, 123, 021802.	2.9	38
81	Probing the Basis of $\hat{\Gamma}_\pm$ -Synuclein Aggregation by Comparing Simulations to Single-Molecule Experiments. <i>Biophysical Journal</i> , 2019, 117, 1125-1135.	0.2	11
82	GLUT1 and TUBB4 in Glioblastoma Could be Efficacious Targets. <i>Cancers</i> , 2019, 11, 1308.	1.7	25
83	Quantum Processes in Neurophotonics and the Origin of the Brain's Spatiotemporal Hierarchy. , 2019, , 189-213.		0
84	EDEn Electroceutical Design Environment: Ion Channel Tissue Expression Database with Small Molecule Modulators. <i>IScience</i> , 2019, 11, 42-56.	1.9	24
85	Molecular orbitals of delocalized electron clouds in neuronal domains. <i>BioSystems</i> , 2019, 183, 103982.	0.9	6
86	Non-Equilibrium $\hat{\Gamma}_\pm$ theory for networks: towards memory formations with quantum brain dynamics. <i>Journal of Physics Communications</i> , 2019, 3, 055020.	0.5	6
87	Tubulin Polarizability in Aqueous Suspensions. <i>ACS Omega</i> , 2019, 4, 9144-9149.	1.6	6
88	How signals of calcium ions initiate the beats of cilia and flagella. <i>BioSystems</i> , 2019, 182, 42-51.	0.9	10
89	The Role of Structural Polymorphism in Driving the Mechanical Performance of the Alzheimer's Beta Amyloid Fibrils. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 83.	2.0	21
90	An Overview of Molecular Modeling for Drug Discovery with Specific Illustrative Examples of Applications. <i>Molecules</i> , 2019, 24, 1693.	1.7	96

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91	Non-Equilibrium Quantum Brain Dynamics: Super-Radiance and Equilibration in 21 Dimensions+. Entropy, 2019, 21, 1066.	1.1	3
92	Gibbs free energy of protein-protein interactions correlates with ATP production in cancer cells. Journal of Biological Physics, 2019, 45, 423-430.	0.7	4
93	On Intrinsic Information Content of the Physical Mind in Quantized Space: Against Externalism. Axiomathes, 2019, 29, 127-137.	0.3	3
94	The Bioelectric Circuitry of the Cell. , 2019, , 195-208.		26
95	Theorizing how the brain encodes consciousness based on negentropic entanglement. Journal of Integrative Neuroscience, 2019, 18, 1-10.	0.8	16
96	Simulating the Effect of 200 kHz AC Electric Fields on Tumour Cell Structures to Uncover the Mechanism of a Cancer Therapy. , 2019, , 127-137.		0
97	Computer-aided design of magnetic molecularly imprinted polymer nanoparticles for solid-phase extraction and determination of levetiracetam in human plasma. RSC Advances, 2018, 8, 14280-14292.	1.7	14
98	Destabilizing the AXH Tetramer by Mutations: Mechanisms and Potential Antiaggregation Strategies. Biophysical Journal, 2018, 114, 323-330.	0.2	14
99	The gastrointestinal-brain axis in humans as an evolutionary advance of the root-leaf axis in plants: A hypothesis linking quantum effects of light on serotonin and auxin. Journal of Integrative Neuroscience, 2018, 17, 227-237.	0.8	2
100	Comparative analyses and structural insights of the novel cytochrome P450 fusion protein family CYP5619 in Oomycetes. Scientific Reports, 2018, 8, 6597.	1.6	4
101	The Emergence of Structured, Living, and Conscious Matter in the Evolution of the Universe: A Theory of Structural Evolution and Interaction of Matter. , 2018, , 231-262.		1
102	Characterizing Mutant Protein Activators Using Single Molecule Optical Trapping. , 2018, , .		1
103	Antiproliferative Activity and Molecular Docking of Novel Double-Modified Colchicine Derivatives. Cells, 2018, 7, 192.	1.8	27
104	Synthesis and Biological Evaluation of Novel Triple-Modified Colchicine Derivatives as Potent Tubulin-Targeting Anticancer Agents. Cells, 2018, 7, 216.	1.8	23
105	Synthesis of small peptide compounds, molecular docking, and inhibitory activity evaluation against phosphatases PTP1B and SHP2. Drug Design, Development and Therapy, 2018, Volume 12, 4139-4147.	2.0	14
106	Non-equilibrium $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml38" display="inline" overflow="scroll" altimg="si38.gif" \rangle \langle mml:msup \rangle \langle mml:mrow \rangle \langle mml:mi \rangle \tilde{\cdot} \langle /mml:mi \rangle \langle /mml:mrow \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 4 \langle /mml:mn \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ theory in open systems as a toy model of quantum field theory of the brain. Annals of Physics, 2018, 398, 214-237.		
107	Tubulin's response to external electric fields by molecular dynamics simulations. PLoS ONE, 2018, 13, e0202141.	1.1	20
108	Molecular Dynamics Simulation Study of Intense Electric Field Effect on Tubulin. , 2018, , .		0

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109	Using Spectral Representation to Classify Proteins'™ Conformational States. International Journal of Molecular Sciences, 2018, 19, 2089.	1.8	0
110	Synthesis, antiproliferative activity and molecular docking of thiocolchicine urethanes. Bioorganic Chemistry, 2018, 81, 553-566.	2.0	19
111	Nonequilibrium quantum electrodynamics: Entropy production during equilibration. International Journal of Modern Physics B, 2018, 32, 1850265.	1.0	4
112	Virtual screening using covalent docking to find activators for G245S mutant p53. PLoS ONE, 2018, 13, e0200769.	1.1	12
113	Nonlinear calcium ion waves along actin filaments control active hair'“bundle motility. BioSystems, 2018, 173, 181-190.	0.9	9
114	Search for magnetic monopoles with the MoEDAL forward trapping detector in 2.11 fb ⁻¹ of 13 TeV proton'“proton collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 510-516.	1.5	33
115	Using Thermodynamic Functions as an Organizing Principle in Cancer Biology. Computational Biology, 2018, , 139-157.	0.1	2
116	A computational approach for predicting off-target toxicity of antiviral ribonucleoside analogues to mitochondrial RNA polymerase. Journal of Biological Chemistry, 2018, 293, 9696-9705.	1.6	10
117	Are there optical communication channels in the brain. Frontiers in Bioscience - Landmark, 2018, 23, 1407-1421.	3.0	18
118	Electromagnetic elds and optomechanics in cancer diagnostics and treatment. Frontiers in Bioscience - Landmark, 2018, 23, 1391-1406.	3.0	7
119	Conformational Dynamics and Stability of U-Shaped and S-Shaped Amyloid Î² Assemblies. International Journal of Molecular Sciences, 2018, 19, 571.	1.8	30
120	Computational Characterization of Small Molecules Binding to the Human XPF Active Site and Virtual Screening to Identify Potential New DNA Repair Inhibitors Targeting the ERCC1-XPF Endonuclease. International Journal of Molecular Sciences, 2018, 19, 1328.	1.8	16
121	A Novel Interaction Between the TLR7 and a Colchicine Derivative Revealed Through a Computational and Experimental Study. Pharmaceuticals, 2018, 11, 22.	1.7	3
122	Integration of intracellular signaling: Biological analogues of wires, processors and memories organized by a centrosome 3D reference system. BioSystems, 2018, 173, 191-206.	0.9	13
123	Molecular Dynamics and Related Computational Methods with Applications to Drug Discovery. Springer Proceedings in Mathematics and Statistics, 2018, , 267-285.	0.1	2
124	The molecular mechanism of action of methylene quinuclidinone and its effects on the structure of p53 mutants. Oncotarget, 2018, 9, 37137-37156.	0.8	11
125	The gastrointestinal-brain axis in humans as an evolutionary advance of the root-leaf axis in plants: A hypothesis linking quantum effects of light on serotonin and auxin. Journal of Integrative Neuroscience, 2018, 17, 177-183.	0.8	1
126	Software for molecular docking: a review. Biophysical Reviews, 2017, 9, 91-102.	1.5	880

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127	Novel Allosteric Pathway of Eg5 Regulation Identified through Multivariate Statistical Analysis of Hydrogen-Exchange Mass Spectrometry (HX-MS) Ligand Screening Data. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 428-437.	2.5	12
128	Search for Magnetic Monopoles with the MoEDAL Forward Trapping Detector in 13.6 TeV Proton-Proton Collisions at the LHC. <i>Physical Review Letters</i> , 2017, 118, 061801.	2.9	48
129	Stream of consciousness: Quantum and biochemical assumptions regarding psychopathology. <i>Medical Hypotheses</i> , 2017, 101, 78-84.	0.8	0
130	Synthesis and biological evaluation of structurally simplified noscapine analogues as microtubule binding agents. <i>Canadian Journal of Chemistry</i> , 2017, 95, 649-655.	0.6	10
131	Novel mutations involving β II, β IIA, or β IVB-tubulin isotypes with functional resemblance to β III-tubulin in breast cancer. <i>Protoplasma</i> , 2017, 254, 1163-1173.	1.0	22
132	Gibbs free energy as a measure of complexity correlates with time within <i>C. elegans</i> embryonic development. <i>Journal of Biological Physics</i> , 2017, 43, 551-563.	0.7	6
133	Response to Alternating Electric Fields of Tubulin Dimers and Microtubule Ensembles in Electrolytic Solutions. <i>Scientific Reports</i> , 2017, 7, 9594.	1.6	28
134	Thermodynamics and Cancer Dormancy: A Perspective. <i>Cancer Drug Discovery and Development</i> , 2017, , 61-79.	0.2	0
135	Anesthetic Alterations of Collective Terahertz Oscillations in Tubulin Correlate with Clinical Potency: Implications for Anesthetic Action and Post-Operative Cognitive Dysfunction. <i>Scientific Reports</i> , 2017, 7, 9877.	1.6	43
136	A computational method for selecting short peptide sequences for inorganic material binding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 2024-2035.	1.5	3
137	Self-Assembled Ligands Targeting TLR7: A Molecular Level Investigation. <i>Langmuir</i> , 2017, 33, 14460-14471.	1.6	5
138	Document of Trapani on animal consciousness and quantum brain function: A hypothesis. <i>Journal of Integrative Neuroscience</i> , 2017, 16, S99-S103.	0.8	1
139	A dialogue on the issue of the "quantum brain" between consciousness and unconsciousness. <i>Journal of Integrative Neuroscience</i> , 2017, 16, S13-S18.	0.8	2
140	Optomechanical proposal for monitoring microtubule mechanical vibrations. <i>Physical Review E</i> , 2017, 96, 012404.	0.8	8
141	Linoleic acid: Is this the key that unlocks the quantum brain? Insights linking broken symmetries in molecular biology, mood disorders and personalistic emergentism. <i>BMC Neuroscience</i> , 2017, 18, 38.	0.8	15
142	Thermodynamic and kinetic stability of the Josephin Domain closed arrangement: evidences from replica exchange molecular dynamics. <i>Biology Direct</i> , 2017, 12, 2.	1.9	15
143	Galilean complex Sine-Gordon equation: symmetries, soliton solutions and gauge coupling. , 2017, , 139-144.		0
144	Cover Image, Volume 85, Issue 11. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, C1.	1.5	0

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145	Explaining the Microtubule Energy Balance: Contributions Due to Dipole Moments, Charges, van der Waals and Solvation Energy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2042.	1.8	7
146	Ion Channel and Neurotransmitter Modulators as Electroceutical Approaches to the Control of Cancer. <i>Current Pharmaceutical Design</i> , 2017, 23, 4827-4841.	0.9	32
147	Insights into the Effect of the G245S Single Point Mutation on the Structure of p53 and the Binding of the Protein to DNA. <i>Molecules</i> , 2017, 22, 1358.	1.7	23
148	Modeling the Colchicum autumnale Tubulin and a Comparison of Its Interaction with Colchicine to Human Tubulin. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1676.	1.8	16
149	Sensitivity of docetaxel-resistant MCF-7 breast cancer cells to microtubule-destabilizing agents including vinca alkaloids and colchicine-site binding agents. <i>PLoS ONE</i> , 2017, 12, e0182400.	1.1	19
150	Personalized anticancer therapy selection using molecular landscape topology and thermodynamics. <i>Oncotarget</i> , 2017, 8, 18735-18745.	0.8	21
151	Metabolic targeting of EGFRvIII/PDK1 axis in temozolomide resistant glioblastoma. <i>Oncotarget</i> , 2017, 8, 35639-35655.	0.8	27
152	Novel Colchicine Derivatives and their Anti-cancer Activity. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2538-2558.	1.0	23
153	Rational Drug Design <i>Rational Drug Design</i> , 2017, , 1144-1174.		0
154	Inhibitory Activity of Iron Chelators ATA and DFO on MCF-7 Breast Cancer Cells and Phosphatases PTP1B and SHP2. <i>Anticancer Research</i> , 2017, 37, 4799-4806.	0.5	17
155	The Physical Mechanism for Retinal Discrete Dark Noise: Thermal Activation or Cellular Ultraweak Photon Emission?. <i>PLoS ONE</i> , 2016, 11, e0148336.	1.1	12
156	Josephin Domain Structural Conformations Explored by Metadynamics in Essential Coordinates. <i>PLoS Computational Biology</i> , 2016, 12, e1004699.	1.5	22
157	An Overview of Sub-Cellular Mechanisms Involved in the Action of TFields. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1128.	1.2	66
158	Chicoric acid binds to two sites and decreases the activity of the YopH bacterial virulence factor. <i>Oncotarget</i> , 2016, 7, 2229-2238.	0.8	16
159	Chemical synthesis, pharmacological evaluation and in silico analysis of new 2,3,3a,4,5,6-hexahydrocyclopenta[c]pyrazole derivatives as potential anti-mitotic agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3855-3861.	1.0	8
160	Cover Image, Volume 84, Issue 5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, C1-C1.	1.5	0
161	Characterization of the <sc>AXH</sc> domain of Ataxin-1 using enhanced sampling and functional mode analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 666-673.	1.5	21
162	Automatic prediction of tumour malignancy in breast cancer with fractal dimension. <i>Royal Society Open Science</i> , 2016, 3, 160558.	1.1	90

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163	A strategy to identify housekeeping genes suitable for analysis in breast cancer diseases. <i>BMC Genomics</i> , 2016, 17, 639.	1.2	47
164	Screening Anti-Cancer Drugs against Tubulin using Catch-and-Release Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 876-885.	1.2	4
165	Conformational fluctuations of the AXH monomer of Ataxin-1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 52-59.	1.5	30
166	Aurintricarboxylic acid structure modifications lead to reduction of inhibitory properties against virulence factor YopH and higher cytotoxicity. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 163.	1.7	6
167	Antitumor Activity of Lankacidin Group Antibiotics Is Due to Microtubule Stabilization via a Paclitaxel-like Mechanism. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9532-9540.	2.9	23
168	Search for magnetic monopoles with the MoEDAL prototype trapping detector in 8 TeV proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	41
169	THE "QUANTUM UNDERGROUND" WHERE LIFE AND CONSCIOUSNESS ORIGINATE. , 2016, , 459-515.		3
170	Relationship between intelligence and spectral characteristics of brain biophoton emission: Correlation does not automatically imply causation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5540-1.	3.3	12
171	Possible existence of optical communication channels in the brain. <i>Scientific Reports</i> , 2016, 6, 36508.	1.6	82
172	Molecular evolutionary dynamics of cytochrome P450 monooxygenases across kingdoms: Special focus on mycobacterial P450s. <i>Scientific Reports</i> , 2016, 6, 33099.	1.6	61
173	Toward precision medicine of breast cancer. <i>Theoretical Biology and Medical Modelling</i> , 2016, 13, 7.	2.1	48
174	A physiologically-based flow network model for hepatic drug elimination III: 2D/3D DLA lobule models. <i>Theoretical Biology and Medical Modelling</i> , 2016, 13, 9.	2.1	16
175	Synthesis, antiproliferative activity and molecular docking of Colchicine derivatives. <i>Bioorganic Chemistry</i> , 2016, 64, 103-112.	2.0	14
176	Thermodynamic measures of cancer: Gibbs free energy and entropy of protein-protein interactions. <i>Journal of Biological Physics</i> , 2016, 42, 339-350.	0.7	42
177	Symmetries and soliton solutions of the Galilean complex Sine-Gordon equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1223-1230.	0.9	2
178	New design of nucleotide excision repair (NER) inhibitors for combination cancer therapy. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 65, 71-82.	1.3	36
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