

Andrea Townsend-Nicholson

List of Publications by Year in descending order

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38
papers

1,547
citations

394421

19
h-index

345221

36
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all docs

38
docs citations

38
times ranked

1966
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting Residence Time of GPCR Ligands with Machine Learning. <i>Methods in Molecular Biology</i> , 2022, 2390, 191-205.	0.9	4
2	Pharmaceutical Industryâ€™Academia Cooperation. , 2021, , 307-322.		0
3	Educating and engaging new communities of practice with high performance computing through the integration of teaching and research. <i>Interface Focus</i> , 2020, 10, 20200003.	3.0	4
4	Hit-to-lead and lead optimization binding free energy calculations for G protein-coupled receptors. <i>Interface Focus</i> , 2020, 10, 20190128.	3.0	11
5	Characterizing Interhelical Interactions of G-Protein Coupled Receptors with the Fragment Molecular Orbital Method. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2814-2824.	5.3	13
6	Characterizing Protein-Protein Interactions with the Fragment Molecular Orbital Method. <i>Methods in Molecular Biology</i> , 2020, 2114, 187-205.	0.9	7
7	Characterizing Rhodopsin-Arrestin Interactions with the Fragment Molecular Orbital (FMO) Method. <i>Methods in Molecular Biology</i> , 2020, 2114, 177-186.	0.9	1
8	Analyzing GPCR-Ligand Interactions with the Fragment Molecular Orbital (FMO) Method. <i>Methods in Molecular Biology</i> , 2020, 2114, 163-175.	0.9	1
9	Computational prediction of GPCR oligomerization. <i>Current Opinion in Structural Biology</i> , 2019, 55, 178-184.	5.7	14
10	Characterising GPCRâ€™ligand interactions using a fragment molecular orbital-based approach. <i>Current Opinion in Structural Biology</i> , 2019, 55, 85-92.	5.7	13
11	Ensemble-Based Steered Molecular Dynamics Predicts Relative Residence Time of A_{2A} Receptor Binders. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3316-3330.	5.3	39
12	The biological impact of blood pressure-associated genetic variants in the natriuretic peptide receptor C gene on human vascular smooth muscle. <i>Human Molecular Genetics</i> , 2018, 27, 199-210.	2.9	21
13	Computational Methods Used in Hit-to-Lead and Lead Optimization Stages of Structure-Based Drug Discovery. <i>Methods in Molecular Biology</i> , 2018, 1705, 375-394.	0.9	18
14	Synergistic Use of GPCR Modeling and SDM Experiments to Understand Ligand Binding. <i>Methods in Molecular Biology</i> , 2018, 1705, 335-343.	0.9	1
15	An Ensemble-Based Protocol for the Computational Prediction of Helixâ€™Helix Interactions in G Protein-Coupled Receptors using Coarse-Grained Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2254-2270.	5.3	27
16	Rapid and accurate assessment of GPCRâ€™ligand interactions Using the fragment molecular orbitalâ€™based densityâ€™functional tightâ€™binding method. <i>Journal of Computational Chemistry</i> , 2017, 38, 1987-1990.	3.3	44
17	An Immunological Approach to Increase the Brainâ€™s Resilience to Insults. <i>ISRN Neuroscience</i> , 2014, 2014, 1-10.	1.5	13
18	Molecular characterisation of post-bio-electrosprayed human brain astrocytoma cells. <i>Analyst</i> , The, 2010, 135, 2600.	3.5	19

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19	Involvement of P2Y1 and P2Y11 Purinoceptors in Parasympathetic Inhibition of Colonic Smooth Muscle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 324, 1055-1063.	2.5	44
20	A novel nucleotide receptor in <i>Xenopus</i> activates the cAMP second messenger pathway. <i>FEBS Letters</i> , 2007, 581, 5332-5336.	2.8	13
21	Cell Electrospinning: A Unique Biotechnology for Encapsulating Living Organisms for Generating Active Biological Microthreads/Scaffolds. <i>Biomacromolecules</i> , 2006, 7, 3364-3369.	5.4	430
22	Antagonism of ATP responses at P2X receptor subtypes by the pH indicator dye, Phenol red. <i>British Journal of Pharmacology</i> , 2005, 145, 313-322.	5.4	29
23	Chicken DT40 cells stably transfected with the rat P2X7 receptor ion channel: a system suitable for the study of purine receptor-mediated cell death. <i>Biochemical Pharmacology</i> , 2003, 66, 415-424.	4.4	17
24	Heteromultimeric P2X1/2 Receptors Show a Novel Sensitivity to Extracellular pH. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 300, 673-680.	2.5	78
25	P2 receptors in the thymus: expression of P2X and P2Y receptors in adult rats, an immunohistochemical and in situ hybridisation study. <i>Cell and Tissue Research</i> , 2000, 300, 295-306.	2.9	52
26	Recombinant P2Y receptors: the UCL experience. <i>Journal of the Autonomic Nervous System</i> , 2000, 81, 164-170.	1.9	25
27	Molecular cloning, functional characterization and possible cooperativity between the murine P2X4 and P2X4a receptors. <i>Molecular Brain Research</i> , 1999, 64, 246-254.	2.3	63
28	Thermodynamics of full agonist, partial agonist, and antagonist binding to wild-type and mutant adenosine A1 receptors. <i>Biochemical Pharmacology</i> , 1998, 56, 1437-1445.	4.4	50
29	Diimidazo[1,2-c:4,5-e]pyrimidines: Adenosine agonist activity demonstrated by microphysiometry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 691-694.	2.2	2
30	Metabotropic receptors for ATP and UTP: exploring the correspondence between native and recombinant nucleotide receptors. <i>Trends in Pharmacological Sciences</i> , 1998, 19, 506-514.	8.7	142
31	A Functional Screening of Adenosine Analogues at the Adenosine A2B Receptor: A Search for Potent Agonists. <i>Nucleosides & Nucleotides</i> , 1998, 17, 969-985.	0.5	48
32	Cloning, characterisation and chromosomal assignment of the human adenosine A3 receptor (ADORA3) gene. <i>Neuroscience Research</i> , 1997, 29, 73-79.	1.9	37
33	Characterization and Chromosomal Localization of the Human A2a Adenosine Receptor Gene: ADORA2A. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 461-467.	2.1	39
34	Localization of the adenosine A2b receptor subtype gene (ADORA2B) to chromosome 17p11.2-p12 by FISH and PCR screening of somatic cell hybrids. <i>Genomics</i> , 1995, 25, 605-607.	2.9	17
35	Localization of the adenosine A1 receptor subtype gene (ADORA1) to chromosome 1q32.1. <i>Genomics</i> , 1995, 26, 423-425.	2.9	25
36	Synergy between the inositol phosphate responses to transfected human adenosine A ₁ receptors and constitutive P _{2U} purinoceptors in CHO-K1 cells. <i>British Journal of Pharmacology</i> , 1995, 115, 1415-1424.	5.4	49

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37	Molecular cloning and characterisation of a human brain A1 adenosine receptor cDNA. Molecular Brain Research, 1992, 16, 365-370.	2.3	92
38	Novel G protein-coupled receptors: a gene family of putative human olfactory receptor sequences. Molecular Brain Research, 1992, 13, 159-163.	2.3	45