

# Ryan J Watts

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4776625/publications.pdf>

Version: 2024-02-01

23  
papers

3,580  
citations

394421

19  
h-index

642732

23  
g-index

24  
all docs

24  
docs citations

24  
times ranked

4786  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting Brain Uptake of a Therapeutic Antibody by Reducing Its Affinity for a Transcytosis Target. <i>Science Translational Medicine</i> , 2011, 3, 84ra44.	12.4	623
2	Engaging neuroscience to advance translational research in brain barrier biology. <i>Nature Reviews Neuroscience</i> , 2011, 12, 169-182.	10.2	508
3	Therapeutic bispecific antibodies cross the blood-brain barrier in nonhuman primates. <i>Science Translational Medicine</i> , 2014, 6, 261ra154.	12.4	276
4	A Therapeutic Antibody Targeting BACE1 Inhibits Amyloid- $\beta$ Production in Vivo. <i>Science Translational Medicine</i> , 2011, 3, 84ra43.	12.4	246
5	Transferrin receptor (TfR) trafficking determines brain uptake of TfR antibody affinity variants. <i>Journal of Experimental Medicine</i> , 2014, 211, 233-244.	8.5	242
6	Effector-attenuating Substitutions That Maintain Antibody Stability and Reduce Toxicity in Mice. <i>Journal of Biological Chemistry</i> , 2017, 292, 3900-3908.	3.4	206
7	Addressing Safety Liabilities of TfR Bispecific Antibodies That Cross the Blood-Brain Barrier. <i>Science Translational Medicine</i> , 2013, 5, 183ra57, 1-12.	12.4	199
8	Discovery of Novel Blood-Brain Barrier Targets to Enhance Brain Uptake of Therapeutic Antibodies. <i>Neuron</i> , 2016, 89, 70-82.	8.1	193
9	Brain delivery of therapeutic proteins using an Fc fragment blood-brain barrier transport vehicle in mice and monkeys. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	184
10	Developing Therapeutic Antibodies for Neurodegenerative Disease. <i>Neurotherapeutics</i> , 2013, 10, 459-472.	4.4	166
11	Brain delivery and activity of a lysosomal enzyme using a blood-brain barrier transport vehicle in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	121
12	A rare mutation in UNC5C predisposes to late-onset Alzheimer's disease and increases neuronal cell death. <i>Nature Medicine</i> , 2014, 20, 1452-1457.	30.7	116
13	Targeting of nonlipidated, aggregated apoE with antibodies inhibits amyloid accumulation. <i>Journal of Clinical Investigation</i> , 2018, 128, 2144-2155.	8.2	105
14	Rescue of a lysosomal storage disorder caused by Grn loss of function with a brain penetrant progranulin biologic. <i>Cell</i> , 2021, 184, 4651-4668.e25.	28.9	97
15	APOE immunotherapy reduces cerebral amyloid angiopathy and amyloid plaques while improving cerebrovascular function. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	76
16	Bispecific antibodies for delivery into the brain. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 393-399.	6.1	71
17	Widespread brain distribution and activity following i.c.v. infusion of anti- $\beta$ -secretase (BACE1) in nonhuman primates. <i>British Journal of Pharmacology</i> , 2017, 174, 4173-4185.	5.4	40
18	Mathematical PKPD and safety model of bispecific TfR/BACE1 antibodies for the optimization of antibody uptake in brain. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 101, 53-61.	4.3	38

#	ARTICLE	IF	CITATIONS
19	Molecular architecture determines brain delivery of a transferrin receptorâ€‘targeted lysosomal enzyme. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	31
20	Transferrin Antibodies Into the Brain. <i>Neuropsychopharmacology</i> , 2012, 37, 302-303.	5.4	16
21	BACE1 across species: a comparison of the in vivo consequences of BACE1 deletion in mice and rats. <i>Scientific Reports</i> , 2017, 7, 44249.	3.3	12
22	The Blood-Brain Barrierâ€™s Gut Check. <i>Science Translational Medicine</i> , 2014, 6, 263fs46.	12.4	8
23	Characterization of a sensitive mouse A $\beta$ 240 PD biomarker assay for Alzheimer's disease drug development in wild-type mice. <i>Bioanalysis</i> , 2016, 8, 1067-1075.	1.5	5