

# R Todd Ogden

## List of Publications by Year in descending order

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108  
papers

5,104  
citations

109321

35  
h-index

102487

66  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered Serotonin 1A Binding in Major Depression: A [carbonyl-C-11]WAY100635 Positron Emission Tomography Study. <i>Biological Psychiatry</i> , 2006, 59, 106-113.	1.3	324
2	Effects of sex, age, and aggressive traits in man on brain serotonin 5-HT1A receptor binding potential measured by PET using [C-11]WAY-100635. <i>Brain Research</i> , 2002, 954, 173-182.	2.2	294
3	Lower Serotonin Transporter Binding Potential in the Human Brain During Major Depressive Episodes. <i>American Journal of Psychiatry</i> , 2006, 163, 52-58.	7.2	292
4	Effect of a Triallelic Functional Polymorphism of the Serotonin-Transporter-Linked Promoter Region on Expression of Serotonin Transporter in the Human Brain. <i>American Journal of Psychiatry</i> , 2006, 163, 48-51.	7.2	250
5	Essential Wavelets for Statistical Applications and Data Analysis. , 1997, , .		229
6	Establishing moderators and biosignatures of antidepressant response in clinical care (EMBARC): Rationale and design. <i>Journal of Psychiatric Research</i> , 2016, 78, 11-23.	3.1	216
7	Functional Principal Component Regression and Functional Partial Least Squares. <i>Journal of the American Statistical Association</i> , 2007, 102, 984-996.	3.1	208
8	Higher 5-HT1A Receptor Binding Potential During a Major Depressive Episode Predicts Poor Treatment Response: Preliminary Data from a Naturalistic Study. <i>Neuropsychopharmacology</i> , 2006, 31, 1745-1749.	5.4	203
9	Smoothing Parameter Selection for a Class of Semiparametric Linear Models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2009, 71, 505-523.	2.2	150
10	Higher Serotonin 1A Binding in a Second Major Depression Cohort: Modeling and Reference Region Considerations. <i>Biological Psychiatry</i> , 2010, 68, 170-178.	1.3	148
11	In vivo Quantification of Serotonin Transporters Using [11C]DASB and Positron Emission Tomography in Humans: Modeling Considerations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 205-217.	4.3	125
12	Brain Serotonin Transporter Binding in Depressed Patients With Bipolar Disorder Using Positron Emission Tomography. <i>Archives of General Psychiatry</i> , 2007, 64, 201.	12.3	122
13	Positron Emission Tomography Quantification of Serotonin-1A Receptor Binding in Medication-Free Bipolar Depression. <i>Biological Psychiatry</i> , 2009, 66, 223-230.	1.3	113
14	Reported childhood abuse is associated with low serotonin transporter binding in vivo in major depressive disorder. <i>Synapse</i> , 2009, 63, 565-573.	1.2	109
15	Methods for Scalarâ€œFunction Regression. <i>International Statistical Review</i> , 2017, 85, 228-249.	1.9	102
16	Antidepressant Treatment Reduces Serotonin-1A Autoreceptor Binding in Major Depressive Disorder. <i>Biological Psychiatry</i> , 2013, 74, 26-31.	1.3	101
17	Positron Emission Tomography Quantification of Serotonin<sub>1A</sub> Receptor Binding in Suicide Attempters With Major Depressive Disorder. <i>JAMA Psychiatry</i> , 2015, 72, 169.	11.0	98
18	Functional Generalized Linear Models with Images as Predictors. <i>Biometrics</i> , 2010, 66, 61-69.	1.4	95

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19	Serotonin transporter binding as a possible predictor of one-year remission in major depressive disorder. <i>Journal of Psychiatric Research</i> , 2008, 42, 1137-1144.	3.1	84
20	Brain Serotonin 1A Receptor Binding as a Predictor of Treatment Outcome in Major Depressive Disorder. <i>Biological Psychiatry</i> , 2013, 74, 760-767.	1.3	84
21	Estimation of kinetic parameters in graphical analysis of PET imaging data. <i>Statistics in Medicine</i> , 2003, 22, 3557-3568.	1.6	82
22	Positron Emission Tomography Quantification of Serotonin Transporter in Suicide Attempters with Major Depressive Disorder. <i>Biological Psychiatry</i> , 2013, 74, 287-295.	1.3	82
23	Reference Region Approaches in PET: a Comparative Study on Multiple Radioligands. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 888-897.	4.3	80
24	Wavelet-Based LASSO in Functional Linear Regression. <i>Journal of Computational and Graphical Statistics</i> , 2012, 21, 600-617.	1.7	71
25	Pretreatment and early-treatment cortical thickness is associated with SSRI treatment response in major depressive disorder. <i>Neuropsychopharmacology</i> , 2018, 43, 2221-2230.	5.4	61
26	Quantification of the Serotonin 1A Receptor Using PET: Identification of a Potential Biomarker of Major Depression in Males. <i>Neuropsychopharmacology</i> , 2015, 40, 1692-1699.	5.4	58
27	Estimation in regression models with externally estimated parameters. <i>Biostatistics</i> , 2005, 7, 115-129.	1.5	56
28	Simultaneous Estimation of Input Functions: An Empirical Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 816-826.	4.3	50
29	Modeling Considerations for <sup>11</sup> C-CUMI-101, an Agonist Radiotracer for Imaging Serotonin 1A Receptor In Vivo with PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 587-596.	5.0	49
30	In vivo variation in same-day estimates of metabotropic glutamate receptor subtype 5 binding using [ <sup>11</sup> C]ABP688 and [ <sup>18</sup> F]FPEB. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2716-2727.	4.3	49
31	In vivo Serotonin-Sensitive Binding of [ <sup>11</sup> C]CUMI-101: A Serotonin 1A Receptor Agonist Positron Emission Tomography Radiotracer. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 243-249.	4.3	47
32	Effects of tryptophan depletion on the binding of [ <sup>11</sup> C]-DASB to the serotonin transporter in baboons: Response to acute serotonin deficiency. <i>Biological Psychiatry</i> , 2005, 57, 102-106.	1.3	44
33	In vivo effects of ketamine on glutamate-glutamine and gamma-aminobutyric acid in obsessive-compulsive disorder: Proof of concept. <i>Psychiatry Research - Neuroimaging</i> , 2015, 233, 141-147.	1.8	43
34	Adding Drift to the Decomposition of Simple Isochronous Tapping: An Extension of the Wing-Kristofferson Model. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2004, 30, 853-872.	0.9	42
35	HIGHER IN VIVO SEROTONIN-1A BINDING IN POSTTRAUMATIC STRESS DISORDER: A PET STUDY WITH [ <sup>11</sup> C]WAY-100635. <i>Depression and Anxiety</i> , 2013, 30, 197-206.	4.1	41
36	Determination of Volume of Distribution using Likelihood Estimation in Graphical Analysis: Elimination of Estimation Bias. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1471-1478.	4.3	40

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37	Variable selection in functionâ€œscalar regression. Stat, 2016, 5, 88-101.	0.4	38
38	Profiling Placebo Responders by Self-Consistent Partitioning of Functional Data. Journal of the American Statistical Association, 2003, 98, 850-858.	3.1	33
39	Metabolite considerations in the in vivo quantification of serotonin transporters using 11C-DASB and PET in humans. Journal of Nuclear Medicine, 2006, 47, 1796-802.	5.0	30
40	Quantitative mapping of human hair greying and reversal in relation to life stress. ELife, 2021, 10, .	6.0	28
41	Optimal Metabolite Curve Fitting for Kinetic Modeling of 11C-WAY-100635. Journal of Nuclear Medicine, 2007, 48, 926-931.	5.0	27
42	Wavelet-Based Weighted LASSO and Screening Approaches in Functional Linear Regression. Journal of Computational and Graphical Statistics, 2015, 24, 655-675.	1.7	26
43	Kappa opioid receptor binding in major depression: A pilot study. Synapse, 2018, 72, e22042.	1.2	26
44	Wavelet-domain regression and predictive inference in psychiatric neuroimaging. Annals of Applied Statistics, 2015, 9, 1076-1101.	1.1	25
45	Non-invasive estimation of [11C]PBR28 binding potential. NeuroImage, 2018, 169, 278-285.	4.2	23
46	Gray matter volumetric study of major depression and suicidal behavior. Psychiatry Research - Neuroimaging, 2019, 283, 16-23.	1.8	23
47	Statistical analysis plan for stage 1 EMBARC (Establishing Moderators and Biosignatures of Tj ETQq1 1 0.784314 rgBT /Overlock 10 TFS 6, 22-30.	1.1	22
48	Statistical evaluation of test-retest studies in PET brain imaging. EJNMMI Research, 2018, 8, 13.	2.5	22
49	Brain serotonin transporter binding, plasma arachidonic acid and depression severity: A positron emission tomography study of major depression. Journal of Affective Disorders, 2019, 257, 495-503.	4.1	22
50	Higher pretreatment 5â€œHT<sub>1A</sub> receptor binding potential in bipolar disorder depression is associated with treatment remission: A naturalistic treatment pilot PET study. Synapse, 2013, 67, 773-778.	1.2	20
51	Functional data classification: a wavelet approach. Computational Statistics, 2014, 29, 1497-1513.	1.5	20
52	Estimation of in vivo nonspecific binding in positron emission tomography studies without requiring a reference region. NeuroImage, 2015, 108, 234-242.	4.2	19
53	Higher 5-HT1A autoreceptor binding as an endophenotype for major depressive disorder identified in high risk offspring â€œ A pilot study. Psychiatry Research - Neuroimaging, 2018, 276, 15-23.	1.8	19
54	Cortisol Stress Response and in Vivo PET Imaging of Human Brain Serotonin 1A Receptor Binding. International Journal of Neuropsychopharmacology, 2019, 22, 329-338.	2.1	19

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55	Accuracy and reliability of [ <sup>11</sup> C]PBR28 specific binding estimated without the use of a reference region. <i>NeuroImage</i> , 2019, 188, 102-110.	4.2	18
56	Treatment Decisions Based on Scalar and Functional Baseline Covariates. <i>Biometrics</i> , 2015, 71, 884-894.	1.4	17
57	On detecting and modeling deterministic drift in long run sequences of tapping data. <i>Communications in Statistics - Theory and Methods</i> , 1999, 28, 977-987.	1.0	15
58	Positron emission tomography quantification of serotonin transporter binding in medication-free bipolar disorder. <i>Synapse</i> , 2016, 70, 24-32.	1.2	15
59	Empirical Bayesian estimation in graphical analysis: a voxel-based approach for the determination of the volume of distribution in PET studies. <i>Nuclear Medicine and Biology</i> , 2010, 37, 443-451.	0.6	14
60	In vivo relationship between serotonin 1A receptor binding and gray matter volume in the healthy brain and in major depressive disorder. <i>Brain Structure and Function</i> , 2018, 223, 2609-2625.	2.3	14
61	Likelihood estimation of drug occupancy for brain PET studies. <i>NeuroImage</i> , 2018, 178, 255-265.	4.2	14
62	A Paradoxical Result in Estimating Regression Coefficients. <i>American Statistician</i> , 2014, 68, 271-276.	1.6	13
63	Wavelet-based scalar-on-function finite mixture regression models. <i>Computational Statistics and Data Analysis</i> , 2016, 93, 86-96.	1.2	13
64	Generated effect modifiers (GEMs) in randomized clinical trials. <i>Biostatistics</i> , 2017, 18, 105-118.	1.5	13
65	Smaller left hippocampal subfield CA1 volume is associated with reported childhood physical and/or sexual abuse in major depression: A pilot study. <i>Journal of Affective Disorders</i> , 2020, 272, 348-354.	4.1	13
66	Mitochondria in epithelial ovarian carcinoma exhibit abnormal phenotypes and blunted associations with biobehavioral factors. <i>Scientific Reports</i> , 2021, 11, 11595.	3.3	13
67	Nonlinear Mixed-Effects Models for PET Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 881-891.	4.2	12
68	Noninvasive Blood-Free Full Quantification of Positron Emission Tomography Radioligand Binding. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 148-156.	4.3	11
69	Quantification of 5-HT <sub>1A</sub> and 5-HT <sub>2A</sub> receptor Binding in Depressed Suicide Attempters and Non-Attempters. <i>Archives of Suicide Research</i> , 2019, 23, 122-133.	2.3	11
70	Genetic variation in brain-derived neurotrophic factor val66met allele is associated with altered serotonin-1A receptor binding in human brain. <i>NeuroImage</i> , 2014, 94, 33-39.	4.2	10
71	Estimation of the binding potential BPND without a reference region or blood samples for brain PET studies. <i>NeuroImage</i> , 2017, 146, 121-131.	4.2	10
72	Quantifying Brain [ <sup>18</sup> F]FDG Uptake Noninvasively by Combining Medical Health Records and Dynamic PET Imaging Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2576-2582.	6.3	10

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73	Simultaneous confidence corridors for mean functions in functional data analysis of imaging data. <i>Biometrics</i> , 2020, 76, 427-437.	1.4	10
74	Prediction of lithium treatment response in bipolar depression using 5-HTT and 5-HT1A PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2417-2428.	6.4	10
75	Nondisplaceable Binding Is a Potential Confounding Factor in $^{11}\text{C}$ -PBR28 Translocator Protein PET Studies. <i>Journal of Nuclear Medicine</i> , 2021, 62, 412-417.	5.0	10
76	On preconditioning the data for the wavelet transform when the sample size is not a power of two. <i>Communications in Statistics Part B: Simulation and Computation</i> , 1997, 26, 467-486.	1.2	9
77	Statistical Tools on the World Wide Web. <i>American Statistician</i> , 1998, 52, 257-262.	1.6	9
78	Toward Noninvasive Quantification of Brain Radioligand Binding by Combining Electronic Health Records and Dynamic PET Imaging Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1271-1282.	6.3	8
79	Lack of association between the serotonin transporter and serotonin 1A receptor: an in vivo PET imaging study in healthy adults. <i>Psychiatry Research - Neuroimaging</i> , 2016, 255, 81-86.	1.8	8
80	Simultaneous confidence bands for functional regression models. <i>Journal of Statistical Planning and Inference</i> , 2017, 188, 67-81.	0.6	8
81	Optimising treatment decision rules through generated effect modifiers: a precision medicine tutorial. <i>BJPsych Open</i> , 2020, 6, e2.	0.7	8
82	Variance Decomposition of Tempo Drift in Isochronous Rhythmic Tapping. <i>Annals of the New York Academy of Sciences</i> , 2001, 930, 405-408.	3.8	7
83	Model-Free Quantification of Dynamic PET Data Using Nonparametric Deconvolution. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1368-1379.	4.3	7
84	Flexible functional regression methods for estimating individualized treatment rules. <i>Stat</i> , 2016, 5, 185-199.	0.4	7
85	Brain 5-HT1A Receptor PET Binding, Cortisol Responses to Stress, and the Familial Transmission of Suicidal Behavior. <i>International Journal of Neuropsychopharmacology</i> , 2022, 25, 36-45.	2.1	7
86	Utility of Molecular and Structural Brain Imaging to Predict Progression from Mild Cognitive Impairment to Dementia. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 939-947.	2.6	6
87	A Bayesian approach to joint modeling of matrix-valued imaging data and treatment outcome with applications to depression studies. <i>Biometrics</i> , 2020, 76, 87-97.	1.4	6
88	A voxel-based clustering approach for the automatic selection of testing regions in the simultaneous estimation of input functions in PET. <i>NeuroImage</i> , 2010, 52, S176.	4.2	5
89	A hybrid deconvolution approach for estimation of in vivo non-displaceable binding for brain PET targets without a reference region. <i>PLoS ONE</i> , 2017, 12, e0176636.	2.5	5
90	Functional Data Analysis of Dynamic PET Data. <i>Journal of the American Statistical Association</i> , 2019, 114, 595-609.	3.1	5

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91	A single-index model with multiple-links. Journal of Statistical Planning and Inference, 2020, 205, 115-128.	0.6	5
92	A sparse additive model for treatment effect-modifier selection. Biostatistics, 2020, , .	1.5	5
93	Serotonin transporter binding in major depressive disorder: impact of serotonin system anatomy. Molecular Psychiatry, 2022, 27, 3417-3424.	7.9	5
94	A constrained single-index regression for estimating interactions between a treatment and covariates. Biometrics, 2021, 77, 506-518.	1.4	4
95	Resting State MRI Amplitude of Low Frequency Fluctuations Associated With Suicidal Ideation in Bipolar Depression. Journal of Clinical Psychiatry, 2022, 83, .	2.2	4
96	Here's to Your Health. Chance, 2007, 20, 59-62.	0.2	3
97	Latent class modeling using matrix covariates with application to identifying early placebo responders based on EEG signals. Annals of Applied Statistics, 2017, 11, 1513-1536.	1.1	3
98	Source-to-Target Automatic Rotating Estimation (STARE) – A publicly available, blood-free quantification approach for PET tracers with irreversible kinetics: Theoretical framework and validation for [18F]FDG. NeuroImage, 2022, 249, 118901.	4.2	3
99	Simultaneous multifactor Bayesian analysis (SiMBA) of PET time activity curve data. NeuroImage, 2022, 256, 119195.	4.2	3
100	Robust fitting for neuroreceptor mapping. Statistics in Medicine, 2009, 28, 1004-1016.	1.6	2
101	Combining brain imaging data with electronic health records to non-invasively quantify [ <sup>11</sup> C]DASB binding. , 2014, , .		2
102	Functional additive models for optimizing individualized treatment rules. Biometrics, 2023, 79, 113-126.	1.4	2
103	Serotonin 1A Receptor Binding of [ <sup>11</sup> C]CUMI-101 in Bipolar Depression Quantified using Positron Emission Tomography: Relationship to Psychopathology and Antidepressant Response. International Journal of Neuropsychopharmacology, 2022, , .	2.1	2
104	Early stopping in clinical PET studies: How to reduce expense and exposure. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2805-2819.	4.3	1
105	Multiple Domain and Multiple Kernel Outcome-Weighted Learning for Estimating Individualized Treatment Regimes. Journal of Computational and Graphical Statistics, 2022, 31, 1375-1383.	1.7	1
106	A data adaptive approach to the robust fitting of PET data: Application to group and test-retest analysis. , 2009, , .		0
107	Inference in functional mixed regression models with applications to Positron Emission Tomography imaging data. Statistics in Medicine, 2021, 40, 4640-4659.	1.6	0
108	Mixture modeling for PET neuroreceptor studies. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S636-S636.	4.3	0