Claus Svarer

List of Publications by Year
in descending order

126	6,103	76294	82499
papers	citations	40 h-index	72 g-index

132	132	132	6362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dorsal striatal dopamine induces fronto-cortical hypoactivity and attenuates anxiety and compulsive behaviors in rats. Neuropsychopharmacology, 2022, 47, 454-464.	2.8	16
2	The Impact of Hormonal Contraceptive Use on Serotonergic Neurotransmission and Antidepressant Treatment Response: Results From the NeuroPharm 1 Study. Frontiers in Endocrinology, 2022, 13, 799675.	1.5	5
3	An in vivo Pig Model for Testing Novel Positron Emission Tomography Radioligands Targeting Cerebral Protein Aggregates. Frontiers in Neuroscience, 2022, 16, 847074.	1.4	3
4	Concurrent anxiety in patients with major depression and cerebral serotonin 4 receptor binding. A NeuroPharm-1 study. Translational Psychiatry, 2022, 12, .	2.4	7
5	Nondisplaceable Binding Is a Potential Confounding Factor in ¹¹C-PBR28 Translocator Protein PET Studies. Journal of Nuclear Medicine, 2021, 62, 412-417.	2.8	10
6	A high-resolution in vivo atlas of the human brain's benzodiazepine binding site of GABAA receptors. NeuroImage, 2021, 232, 117878.	2.1	47
7	Parkinson patients have a presynaptic serotonergic deficit: A dynamic deep brain stimulation PET study. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 0271678X2098238.	2.4	16
8	The relation between dopamine D₂ receptor blockade and the brain reward system: a longitudinal study of first-episode schizophrenia patients. Psychological Medicine, 2020, 50, 220-228.	2.7	22
9	Different preprocessing strategies lead to different conclusions: A [11C]DASB-PET reproducibility study. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1902-1911.	2.4	10
10	The structure of the serotonin system: A PET imaging study. NeuroImage, 2020, 205, 116240.	2.1	17
11	False positive rates in positron emission tomography (PET) voxelwise analyses. Journal of Cerebral Blood Flow and Metabolism, 2020, 41, 0271678X2097496.	2.4	5
12	Visual stimuli induce serotonin release in occipital cortex: A simultaneous positron emission tomography/magnetic resonance imaging study. Human Brain Mapping, 2020, 41, 4753-4763.	1.9	7
13	Striatal Volume Increase After Six Weeks of Selective Dopamine D2/3 Receptor Blockade in First-Episode, Antipsychotic-NaÃ¯ve Schizophrenia Patients. Frontiers in Neuroscience, 2020, 14, 484.	1.4	15
14	A single psilocybin dose is associated with long-term increased mindfulness, preceded by a proportional change in neocortical 5-HT2A receptor binding. European Neuropsychopharmacology, 2020, 33, 71-80.	0.3	88
15	Migraine is associated with high brain 5-HT levels as indexed by 5-HT₄receptor binding. Cephalalgia, 2019, 39, 526-532.	1.8	12
16	Measuring endogenous changes in serotonergic neurotransmission with [11C]Cimbi-36 positron emission tomography in humans. Translational Psychiatry, 2019, 9, 134.	2.4	40
17	Psychedelic effects of psilocybin correlate with serotonin 2A receptor occupancy and plasma psilocin levels. Neuropsychopharmacology, 2019, 44, 1328-1334.	2.8	259
18	Optimization of preprocessing strategies in Positron Emission Tomography (PET) neuroimaging: A [11C]DASB PET study. NeuroImage, 2019, 199, 466-479.	2.1	21

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19	Molecular imaging of neuroinflammation in patients after mild traumatic brain injury: a longitudinal ¹²³Iâ€CLINDE single photon emission computed tomography study. European Journal of Neurology, 2019, 26, 1426-1432.	1.7	41
20	Covariance statistics and network analysis of brain PET imaging studies. Scientific Reports, 2019, 9, 2496.	1.6	42
21	Cerebral serotonin transporter measurements with [¹¹C]DASB: A review on acquisition and preprocessing across 21 PET centres. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 210-222.	2.4	25
22	Preprocessing, Prediction and Significance: Framework and Application to Brain Imaging. Lecture Notes in Computer Science, 2019, , 196-204.	1.0	1
23	Cerebral serotonin release correlates with [¹¹C]AZ10419369 PET measures of 5-HT_{1B} receptor binding in the pig brain. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1243-1252.	2.4	13
24	Low 5-HT_{1B} receptor binding in the migraine brain: A PET study. Cephalalgia, 2018, 38, 519-527.	1.8	26
25	The importance of small polar radiometabolites in molecular neuroimaging: A PET study with [¹¹C]Cimbi-36 labeled in two positions. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 659-668.	2.4	23
26	Automatic delineation of brain regions on MRI and PET images from the pig. Journal of Neuroscience Methods, 2018, 294, 51-58.	1.3	27
27	Seasonality-resilient individuals downregulate their cerebral 5-HT transporter binding in winter â€“ A longitudinal combined 11C-DASB and 11C-SB207145 PET study. European Neuropsychopharmacology, 2018, 28, 1151-1160.	0.3	10
28	The Impact of Preprocessing Pipeline Choice in Univariate and Multivariate Analyses of PET Data. , 2018, , .		1
29	Serotonin 1B Receptor Binding Is Associated With Trait Anger and Level of Psychopathy in Violent Offenders. Biological Psychiatry, 2017, 82, 267-274.	0.7	41
30	Heatâ€washout measurements compared to distal blood pressure and perfusion in orthopaedic patients with foot ulcers. Clinical Physiology and Functional Imaging, 2017, 37, 79-83.	0.5	0
31	Cerebellar heterogeneity and its impact on PET data quantification of 5-HT receptor radioligands. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3243-3252.	2.4	12
32	BDNF val66met association with serotonin transporter binding in healthy humans. Translational Psychiatry, 2017, 7, e1029-e1029.	2.4	20
33	Testosterone levels in healthy men correlate negatively with serotonin 4 receptor binding. Psychoneuroendocrinology, 2017, 81, 22-28.	1.3	28
34	A High-Resolution In Vivo Atlas of the Human Brain's Serotonin System. Journal of Neuroscience, 2017, 37, 120-128.	1.7	8
35	Extrastriatal dopamine D2/3 receptors and cortical grey matter volumes in antipsychotic-naÃ¯ve schizophrenia patients before and after initial antipsychotic treatment. World Journal of Biological Psychiatry, 2017, 18, 539-549.	1.3	4
36	A High-ResolutionIn VivoAtlas of the Human Brain's Serotonin System. Journal of Neuroscience, 2017, 37, 120-128.	1.7	262

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37	The Variability of Translocator Protein Signal in Brain and Blood of Genotyped Healthy Humans Using In Vivo ¹²³I-CLINDE SPECT Imaging: A Testâ€“Retest Study. Journal of Nuclear Medicine, 2017, 58, 989-995.	2.8	7
38	Pharmacologically Induced Sex Hormone Fluctuation Effects on Resting-State Functional Connectivity in a Risk Model for Depression: A Randomized Trial. Neuropsychopharmacology, 2017, 42, 446-453.	2.8	31
39	Brain Networks Implicated in Seasonal Affective Disorder: A Neuroimaging PET Study of the Serotonin Transporter. Frontiers in Neuroscience, 2017, 11, 614.	1.4	9
40	Safety and EEG data quality of concurrent high-density EEG and high-speed fMRI at 3 Tesla. PLoS ONE, 2017, 12, e0178409.	1.1	18
41	Impact of Î¼-map Processing and Transmission Scan Count Statistics on Quantification of PET Pig Brain Scans - and Temporal Variation of Scatter Correction Induced by Î¼-map Mismatch. , 2017, , .		0
42	Design of Infusion Schemes for Neuroreceptor Imaging: Application to [¹¹C]Flumazenil-PET Steady-State Study. BioMed Research International, 2016, 2016, 1-8.	0.9	6
43	Regional brain volumes, diffusivity, and metabolite changes after electroconvulsive therapy for severe depression. Acta Psychiatrica Scandinavica, 2016, 133, 154-164.	2.2	89
44	A regularized full reference tissue model for PET neuroreceptor mapping. NeuroImage, 2016, 139, 405-414.	2.1	9
45	High trait aggression in men is associated with low 5-HT levels, as indexed by 5-HT 4 receptor binding. Social Cognitive and Affective Neuroscience, 2016, 11, 548-555.	1.5	35
46	Frontal D2/3Receptor Availability in Schizophrenia Patients Before and After Their First Antipsychotic Treatment: Relation to Cognitive Functions and Psychopathology. International Journal of Neuropsychopharmacology, 2016, 19, pyw006.	1.0	17
47	Seasonal difference in brain serotonin transporter binding predicts symptom severity in patients with seasonal affective disorder. Brain, 2016, 139, 1605-1614.	3.7	60
48	Reduction in camera-specific variability in [123I]FP-CIT SPECT outcome measures by image reconstruction optimized for multisite settings: impact on age-dependence of the specific binding ratio in the ENC-DAT database of healthy controls. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1323-1336.	3.3	35
49	Serotonin 2A receptor agonist binding in the human brain with [11C]Cimbi-36: Testâ€“retest reproducibility and head-to-head comparison with the antagonist [18F]altanserin. NeuroImage, 2016, 130, 167-174.	2.1	61
50	Brain serotonin 4 receptor binding is associated with the cortisol awakening response. Psychoneuroendocrinology, 2016, 67, 124-132.	1.3	17
51	Different partial volume correction methods lead to different conclusions: An 18F-FDG-PET study of aging. NeuroImage, 2016, 132, 334-343.	2.1	216
52	The Center for Integrated Molecular Brain Imaging (Cimbi) database. NeuroImage, 2016, 124, 1213-1219.	2.1	95
53	Functional connectivity of the dorsal and median raphe nuclei at rest. NeuroImage, 2015, 116, 187-195.	2.1	85
54	Motion correction in simultaneous PET/MR brain imaging using sparsely sampled MR navigators: a clinically feasible tool. EJNMMI Physics, 2015, 2, 14.	1.3	28

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55	BDNF Val66met and 5-HTTLPR polymorphisms predict a human in vivo marker for brain serotonin levels. Human Brain Mapping, 2015, 36, 313-323.	1.9	24
56	Role of Serotonin Transporter Changes in Depressive Responses to Sex-Steroid Hormone Manipulation: A Positron Emission Tomography Study. Biological Psychiatry, 2015, 78, 534-543.	0.7	108
57	Striatal D_{2/3}Binding Potential Values in Drug-NaÃ¯ve First-Episode Schizophrenia Patients Correlate With Treatment Outcome. Schizophrenia Bulletin, 2015, 41, 1143-1152.	2.3	34
58	Anti-NMDAR encephalitis. Neurology, 2015, 84, 859-859.	1.5	6
59	TSPO Imaging in Glioblastoma Multiforme: A Direct Comparison Between ¹²³I-CLINDE SPECT, ¹⁸F-FET PET, and Gadolinium-Enhanced MR Imaging. Journal of Nuclear Medicine, 2015, 56, 1386-1390.	2.8	41
60	Central 5-HT Neurotransmission Modulates Weight Loss following Gastric Bypass Surgery in Obese Individuals. Journal of Neuroscience, 2015, 35, 5884-5889.	1.7	36
61	In Vivo Quantification of Cerebral Translocator Protein Binding in Humans Using 6-Chloro-2-(4â€²-¹²³I-Iodophenyl)-3-(N,N-Diethyl)-Imidazo[1,2-a]Pyridine-3-Acetamide SPECT. Journal of Nuclear Medicine, 2014, 55, 1966-1972.	2.8	16
62	In abstinent MDMA users the cortisol awakening response is off-set but associated with prefrontal serotonin transporter binding as in non-users. International Journal of Neuropsychopharmacology, 2014, 17, 1119-1128.	1.0	16
63	Improved resolution and reliability in dynamic PET using Bayesian regularization of MRTM2. , 2014, , .		0
64	Sparsely sampled MR navigators as a practical tool for quality control and correction of head motion in simultaneous PET/MR. EJNMMI Physics, 2014, 1, A36.	1.3	3
65	Serotonin 2A Receptor Agonist Binding in the Human Brain with [¹¹C]Cimbi-36. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1188-1196.	2.4	88
66	Cortical surface-based analysis reduces bias and variance in kinetic modeling of brain PET data. NeuroImage, 2014, 92, 225-236.	2.1	179
67	Validation of scatter simulation in 3D and count-rate dependent component-based normalization for the HRRT. , 2014, , .		0
68	Prefrontal serotonin transporter availability is positively associated with the cortisol awakening response. European Neuropsychopharmacology, 2013, 23, 285-294.	0.3	34
69	Automatic semi-quantification of [123I]FP-CIT SPECT scans in healthy volunteers using BasGan version 2: results from the ENC-DAT database. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 565-573.	3.3	86
70	Preclinical Safety Assessment of the 5-HT2A Receptor Agonist PET Radioligand [11C]Cimbi-36. Molecular Imaging and Biology, 2013, 15, 376-383.	1.3	43
71	Attenuation Correction for the HRRT PET-Scanner Using Transmission Scatter Correction and Total Variation Regularization. IEEE Transactions on Medical Imaging, 2013, 32, 1611-1621.	5.4	57
72	Relationship of frontal D2/3 binding potentials to cognition: a study of antipsychotic-naive schizophrenia patients. International Journal of Neuropsychopharmacology, 2013, 16, 23-36.	1.0	18

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73	Methods for Motion Correction Evaluation Using 18F-FDG Human Brain Scans on a High-Resolution PET Scanner. Journal of Nuclear Medicine, 2012, 53, 495-504.	2.8	38
74	Cerebral metabolism, magnetic resonance spectroscopy and cognitive dysfunction in early multiple sclerosis: an exploratory study. Neurological Research, 2012, 34, 52-58.	0.6	11
75	A comparison of different energy window subtraction methods to correct for scatter and downscatter in I-123 SPECT imaging. Nuclear Medicine Communications, 2012, 33, 708-718.	0.5	8
76	No change in [¹¹C]CUMIâ€101 binding to 5â€HT_{1A} receptors after intravenous citalopram in human. Synapse, 2012, 66, 880-884.	0.6	33
77	Age and sex effects on 5-HT₄ receptors in the human brain: A [¹¹C]SB207145 PET study. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1475-1481.	2.4	72
78	Serotonin2A receptor blockade and clinical effect in first-episode schizophrenia patients treated with quetiapine. Psychopharmacology, 2011, 213, 583-592.	1.5	38
79	In Vivo Imaging of Cerebral Serotonin Transporter and Serotonin2A Receptor Binding in 3,4-Methylenedioxymethamphetamine (MDMA or â€œEcstasyâ€) and Hallucinogen Users. Archives of General Psychiatry, 2011, 68, 562.	13.8	76
80	Validation of a Method for Accurate and Highly Reproducible Quantification of Brain Dopamine Transporter SPECT Studies. Journal of Nuclear Medicine Technology, 2011, 39, 271-278.	0.4	13
81	Endogenous plasma estradiol in healthy men is positively correlated with cerebral cortical serotonin 2A receptor binding. Psychoneuroendocrinology, 2010, 35, 1311-1320.	1.3	35
82	Decreased Frontal Serotonin2A Receptor Binding in Antipsychotic-Naive Patients With First-Episode Schizophrenia. Archives of General Psychiatry, 2010, 67, 9.	13.8	105
83	A Nonlinear Relationship between Cerebral Serotonin Transporter and 5-HT_{2A}Receptor Binding: AnIn VivoMolecular Imaging Study in Humans. Journal of Neuroscience, 2010, 30, 3391-3397.	1.7	52
84	A Movable Phantom Design for Quantitative Evaluation of Motion Correction Studies on High Resolution PET Scanners. IEEE Transactions on Nuclear Science, 2010, 57, 1116-1124.	1.2	7
85	Brain imaging of serotonin 4 receptors in humans with [11C]SB207145-PET. NeuroImage, 2010, 50, 855-861.	2.1	79
86	Cerebral serotonin transporter binding is inversely related to body mass index. NeuroImage, 2010, 52, 284-289.	2.1	96
87	MRI-Guided Region-of-Interest Delineation Is Comparable to Manual Delineation in Dopamine Transporter SPECT Quantification in Patients: A Reproducibility Study. Journal of Nuclear Medicine Technology, 2010, 38, 61-68.	0.4	11
88	Experimental determination of the weighting factor for the energy window subtraction-based downscatter correction for I-123 in brain SPECT studies. Journal of Medical Physics, 2010, 35, 215.	0.1	11
89	New attenuation correction for the HRRT using transmission scatter correction and total variation regularization. , 2009, , .		6
90	Spatial resolution of the HRRT PET scanner using 3D-OSEM PSF reconstruction. , 2009, , .		29

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91	Kinetic Modeling of ¹¹C-SB207145 Binding to 5-HT₄ Receptors in the Human Brain In Vivo. Journal of Nuclear Medicine, 2009, 50, 900-908.	2.8	84
92	A Probabilistic Approach to Delineating Functional Brain Regions. Journal of Nuclear Medicine Technology, 2009, 37, 91-95.	0.4	9
93	The personality trait openness is related to cerebral 5-HTT levels. NeuroImage, 2009, 45, 280-285.	2.1	131
94	Brain serotonin 2A receptor binding: Relations to body mass index, tobacco and alcohol use. NeuroImage, 2009, 46, 23-30.	2.1	87
95	High familial risk for mood disorder is associated with low dorsolateral prefrontal cortex serotonin transporter binding. NeuroImage, 2009, 46, 360-366.	2.1	50
96	Required time delay from 99mTc-HMPAO injection to SPECT data acquisition: healthy subjects and patients with rCBF pattern. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 2212-2219.	3.3	9
97	EXTRASTRIATAL DOPAMINE D2 RECEPTOR BINDING POTENTIALS IN ANTIPSYCHOTIC-NAÃVE FIRST-EPISODE SCHIZOPHRENIC PATIENTS. Schizophrenia Research, 2008, 102, 42.	1.1	0
98	Frontolimbic Serotonin 2A Receptor Binding in Healthy Subjects Is Associated with Personality Risk Factors for Affective Disorder. Biological Psychiatry, 2008, 63, 569-576.	0.7	213
99	Cortical and Subcortical 5-HT2A Receptor Binding in Neuroleptic-Naive First-Episode Schizophrenic Patients. Neuropsychopharmacology, 2008, 33, 2435-2441.	2.8	64
100	Reduced 5-HT2A receptor binding in patients with mild cognitive impairment. Neurobiology of Aging, 2008, 29, 1830-1838.	1.5	107
101	The 5-HT2A receptor binding pattern in the human brain is strongly genetically determined. NeuroImage, 2008, 40, 1175-1180.	2.1	32
102	Evaluation of the Serotonin Transporter Ligand 123I-ADAM for SPECT Studies on Humans. Journal of Nuclear Medicine, 2008, 49, 247-254.	2.8	31
103	NMF on Positron Emission Tomography. , 2007, , .		6
104	Cerebral 5-HT2A receptor binding is increased in patients with Tourette's syndrome. International Journal of Neuropsychopharmacology, 2007, 10, 245.	1.0	61
105	Reproducibility of [123I]PE2I binding to dopamine transporters with SPECT. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 101-109.	3.3	18
106	Reproducibility of 5-HT2A receptor measurements and sample size estimations with [18F]altanserin PET using a bolus/infusion approach. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 910-915.	3.3	39
107	Automatic extraction of VOI data from functional images. NeuroImage, 2006, 31, T91.	2.1	0
108	Frontal Dopamine D2/3 Receptor Binding in Drug-Naive First-Episode Schizophrenic Patients Correlates with Positive Psychotic Symptoms and Gender. Biological Psychiatry, 2006, 60, 621-629.	0.7	88

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109	Patients with obsessiveâ€“compulsive disorder have increased 5-HT2A receptor binding in the caudate nuclei. International Journal of Neuropsychopharmacology, 2005, 8, 391-401.	1.0	123
110	MR-based automatic delineation of volumes of interest in human brain PET images using probability maps. NeuroImage, 2005, 24, 969-979.	2.1	327
111	Serotonin 2A receptor binding in healthy twins genetically predisposed to major depression in comparison with undisposed controls. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S583-S583.	2.4	0
112	Quantification of 123I-PE2I binding to dopamine transporter with SPECT after bolus and bolus/infusion. Journal of Nuclear Medicine, 2005, 46, 1119-27.	2.8	20
113	Assessment of the precision in co-registration of structural MR images and PET images with localized binding. International Congress Series, 2004, 1265, 275-280.	0.2	17
114	Cluster analysis in kinetic modelling of the brain: a noninvasive alternative to arterial sampling. NeuroImage, 2004, 21, 483-493.	2.1	123
115	A database of [18F]-altanserin binding to 5-HT2A receptors in normal volunteers: normative data and relationship to physiological and demographic variables. NeuroImage, 2004, 21, 1105-1113.	2.1	111
116	Integrated software for the analysis of brain PET/SPECT studies with partial-volume-effect correction. Journal of Nuclear Medicine, 2004, 45, 192-201.	2.8	161
117	Quantification of 5-HT2A Receptors in the Human Brain Using [18F]Altanserin-PET and the Bolus/Infusion Approach. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 985-996.	2.4	91
118	Cluster analysis of activity-time series in motor learning. Human Brain Mapping, 2002, 15, 135-145.	1.9	39
119	Quantification of [123I]PE2I binding to dopamine transporters with SPET. European Journal of Nuclear Medicine and Molecular Imaging, 2002, 29, 623-631.	3.3	13
120	Correlations of brain MRI parameters to disability in multiple sclerosis. Acta Neurologica Scandinavica, 2001, 104, 24-30.	1.0	37
121	The 18F-fluorodeoxyglucose Lumped Constant Determined in Human Brain from Extraction Fractions of 18F-fluorodeoxyglucose and Glucose. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 995-1002.	2.4	31
122	Quantitation of Regional Cerebral Blood Flow Corrected for Partial Volume Effect Using O-15 Water and PET: I. Theory, Error Analysis, and Stereologic Comparison. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1237-1251.	2.4	70
123	Quantitation of Regional Cerebral Blood Flow Corrected for Partial Volume Effect Using O-15 Water and PET: II. Normal Values and Gray Matter Blood Flow Response to Visual Activation. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1252-1263.	2.4	59
124	Generalizable Patterns in Neuroimaging: How Many Principal Components?. NeuroImage, 1999, 9, 534-544.	2.1	143
125	Brain Activation during Word Identification and Word Recognition. NeuroImage, 1998, 8, 93-105.	2.1	32
126	Rate Dependence of Regional Cerebral Activation during Performance of a Repetitive Motor Task: A PET Study. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 794-803.	2.4	147