

# Catharina Lange

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

795  
citations

567144

15  
h-index

580701

25  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1326  
citing authors

#	ARTICLE	IF	CITATIONS
1	PETPVE12: an SPM toolbox for Partial Volume Effects correction in brain PET – Application to amyloid imaging with AV45-PET. <i>NeuroImage</i> , 2017, 147, 669-677.	2.1	134
2	Effects of spermidine supplementation on cognition and biomarkers in older adults with subjective cognitive decline (SmartAge) – study protocol for a randomized controlled trial. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 36.	3.0	74
3	Optimization of Statistical Single Subject Analysis of Brain FDG PET for the Prognosis of Mild Cognitive Impairment-to-Alzheimer's Disease Conversion. <i>Journal of Alzheimer's Disease</i> , 2016, 49, 945-959.	1.2	52
4	Functional connectivity in cognitive control networks mitigates the impact of white matter lesions in the elderly. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 109.	3.0	47
5	Data-driven FDG-PET subtypes of Alzheimer's disease-related neurodegeneration. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 49.	3.0	44
6	Automatic classification of dopamine transporter SPECT: deep convolutional neural networks can be trained to be robust with respect to variable image characteristics. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2800-2811.	3.3	37
7	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. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 1323-1336.	3.3	35
8	Global scaling for semi-quantitative analysis in FP-CIT SPECT. <i>Nuklearmedizin - Nuclear Medicine</i> , 2014, 53, 234-241.	0.3	24
9	CT-Based Attenuation Correction in I-123-Ioflupane SPECT. <i>PLoS ONE</i> , 2014, 9, e108328.	1.1	24
10	Topographic patterns of white matter hyperintensities are associated with multimodal neuroimaging biomarkers of Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 29.	3.0	24
11	Hypermetabolism in the hippocampal formation of cognitively impaired patients indicates detrimental maladaptation. <i>Neurobiology of Aging</i> , 2018, 65, 41-50.	1.5	21
12	Brain Perfusion Imaging Under Acetazolamide Challenge for Detection of Impaired Cerebrovascular Reserve Capacity: Positive Findings with $^{15}\text{O}$ -Water PET in Patients with Negative $^{99\text{m}}\text{Tc}$ -HMPAO SPECT Findings. <i>Journal of Nuclear Medicine</i> , 2018, 59, 294-298.	2.8	21
13	Performance of Hippocampus Volumetry with FSL-FIRST for Prediction of Alzheimer's Disease Dementia in at Risk Subjects with Amnesic Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2016, 51, 867-873.	1.2	19
14	Performance Evaluation of Stationary and Semi-Stationary Acquisition with a Non-Stationary Small Animal Multi-Pinhole SPECT System. <i>Molecular Imaging and Biology</i> , 2014, 16, 311-316.	1.3	16
15	Prediction of Alzheimer's Dementia in Patients with Amnesic Mild Cognitive Impairment in Clinical Routine: Incremental Value of Biomarkers of Neurodegeneration and Brain Amyloidosis Added Stepwise to Cognitive Status. <i>Journal of Alzheimer's Disease</i> , 2017, 61, 373-388.	1.2	15
16	Impact of plasma glucose level on the pattern of brain FDG uptake and the predictive power of FDG PET in mild cognitive impairment. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1417-1422.	3.3	15
17	Utility of Follow-up Dopamine Transporter SPECT With 123I-FP-CIT in the Diagnostic Workup of Patients With Clinically Uncertain Parkinsonian Syndrome. <i>Clinical Nuclear Medicine</i> , 2017, 42, 589-594.	0.7	14
18	Abnormal Regional and Global Connectivity Measures in Subjective Cognitive Decline Depending on Cerebral Amyloid Status. <i>Journal of Alzheimer's Disease</i> , 2021, 79, 493-509.	1.2	14

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19	Plasma cortisol is associated with cerebral hypometabolism across the Alzheimer's disease spectrum. <i>Neurobiology of Aging</i> , 2019, 84, 80-89.	1.5	13
20	Diagnostic performance of the specific uptake size index for semi-quantitative analysis of I-123-FP-CIT SPECT: harmonized multi-center research setting versus typical clinical single-camera setting. <i>EJNMMI Research</i> , 2019, 9, 37.	1.1	13
21	Nigrostriatal Degeneration in the Cognitive Part of the Striatum in Parkinson Disease Is Associated With Frontomedial Hypometabolism. <i>Clinical Nuclear Medicine</i> , 2020, 45, 95-99.	0.7	12
22	Impact of age and sex correction on the diagnostic performance of dopamine transporter SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1445-1459.	3.3	12
23	Movement disorders after hypoxic brain injury following cardiac arrest in adults. <i>European Journal of Neurology</i> , 2020, 27, 1937-1947.	1.7	10
24	Impact of the size of the normal database on the performance of the specific binding ratio in dopamine transporter SPECT. <i>EJNMMI Physics</i> , 2020, 7, 34.	1.3	10
25	Semiquantitative slab view display for visual evaluation of 123I-FP-CIT SPECT. <i>Nuclear Medicine Communications</i> , 2016, 37, 509-518.	0.5	9
26	Combination of Structural MRI and $\text{^{18}F}$ -FDG-PET of the Brain Improves Diagnostic Accuracy in Newly Manifested Cognitive Impairment in Geriatric Inpatients. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1319-1331.	1.2	9
27	Severity of Subjective Cognitive Complaints and Worries in Older Adults Are Associated With Cerebral Amyloid- $\beta$ Load. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 675583.	1.7	9
28	Challenges in Screening and Recruitment for a Neuroimaging Study in Cognitively Impaired Geriatric Inpatients. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 197-204.	1.2	7
29	Fully Automatic MRI-Based Hippocampus Volumetry Using FSL-FIRST: Intra-Scanner Test-Retest Stability, Inter-Field Strength Variability, and Performance as Enrichment Biomarker for Clinical Trials Using Prodromal Target Populations at Risk for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 151-164.	1.2	7
30	Normal Values of Thyroid Uptake of $^{99m}\text{Tc}$ Per technetate SPECT in Mice with Respect to Age, Sex, and Circadian Rhythm. <i>Nuklearmedizin - Nuclear Medicine</i> , 2018, 57, 181-189.	0.3	7
31	Mental speed is associated with the shape irregularity of white matter MRI hyperintensity load. <i>Brain Imaging and Behavior</i> , 2017, 11, 1720-1730.	1.1	6
32	FDG Uptake in the Basal Forebrain as Measured by Digital High-Resolution PET Is a Promising Marker of Basal Forebrain Degeneration in the Lewy Body Disease Spectrum. <i>Clinical Nuclear Medicine</i> , 2020, 45, 261-266.	0.7	6
33	A convolutional neural network for fully automated blood SUV determination to facilitate SUR computation in oncological FDG-PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 995-1004.	3.3	6
34	Impairment of Everyday Spatial Navigation Abilities in Mild Cognitive Impairment Is Weakly Associated with Reduced Grey Matter Volume in the Medial Part of the Entorhinal Cortex. <i>Journal of Alzheimer's Disease</i> , 2020, 78, 1149-1159.	1.2	5
35	Robust, fully automatic delineation of the head contour by stereotactical normalization for attenuation correction according to Chang in dopamine transporter scintigraphy. <i>European Radiology</i> , 2015, 25, 2709-2717.	2.3	4
36	Magnetic resonance imaging-based hippocampus volume for prediction of dementia in mild cognitive impairment: Why does the measurement method matter so little?. <i>Alzheimer's and Dementia</i> , 2018, 14, 976-978.	0.4	4

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37	Normal Values of Renal Function measured with 99mTechnetium Mercaptoacetyltryglycine SPECT in Mice with Respect to Age, Sex and Circadian Rhythm. Nuklearmedizin - NuclearMedicine, 2018, 57, 224-233.	0.3	4
38	ICâ€Pâ€063: A TOPOGRAPHIC IMAGING BIOMARKER OF TDP43 PATHOLOGY IN AMNESTIC DEMENTIA BASED ON AUTOPSYâ€DERIVED FDGâ€PET PATTERNS. Alzheimer's and Dementia, 2019, 15, P61.	0.4	3
39	FDGâ€PET subtypes of Alzheimerâ€™s disease and their association with distinct biomarker profiles and clinical trajectories. Alzheimer's and Dementia, 2020, 16, e042101.	0.4	3
40	Brain FDG PET for the Etiological Diagnosis of Clinically Uncertain Cognitive Impairment During Delirium in Remission. Journal of Alzheimer's Disease, 2020, 77, 1609-1622.	1.2	2
41	Brain FDG PET for Short- to Medium-Term Prediction of Further Cognitive Decline and Need for Assisted Living in Acutely Hospitalized Geriatric Patients With Newly Detected Clinically Uncertain Cognitive Impairment. Clinical Nuclear Medicine, 2022, 47, 123-129.	0.7	2
42	P3-159: Impact of the MRI acquisition protocol on the hippocampus volume obtained by two methodologically distinct methods for fully automated volumetry: Spm12 and fsl-first. , 2015, 11, P689-P689.		1
43	Correction: Effects of spermidine supplementation on cognition and biomarkers in older adults with subjective cognitive decline (SmartAge)â€™ study protocol for a randomized controlled trial. Alzheimer's Research and Therapy, 2022, 14, .	3.0	1
44	Preserved brain metabolic activity at the age of 96 years. International Psychogeriatrics, 2016, 28, 1575-1577.	0.6	0
45	IC-P-102: A Novel Marker for The Characterization of The Pattern of White Matter MRI Hyperintensities: The Weighted Confluency Sum Score. , 2016, 12, P77-P78.		0
46	P2-227: Improved Diagnostic Accuracy in Newly Manifested Cognitive Impairment in Geriatric Inpatients: A Multicenter MRI and Pet Study. , 2016, 12, P708-P709.		0
47	P2-230: Sixty-Six Percent Screen Failures in a Prospective Multicenter Neuroimaging Trial on the Diagnosis of Clinically Uncertain Cognitive Impairment in Geriatric Inpatients. , 2016, 12, P710-P711.		0
48	ICâ€Pâ€119: Improved Diagnostic Accuracy in Newly Manifested Cognitive Impairment in Geriatric Inpatients: A Multicenter MRI and Pet Study. Alzheimer's and Dementia, 2016, 12, P89.	0.4	0
49	P3â€223: A Novel Marker for the Characterization of the Pattern of White Matter MRI Hyperintensities: The Weighted Confluency Sum Score. Alzheimer's and Dementia, 2016, 12, P911.	0.4	0
50	P4â€204: Higher Metabolism in the Mesial Temporal Lobe is Associated With Poorer Cognitive Performance in Geriatric Inpatients. Alzheimer's and Dementia, 2016, 12, P1102.	0.4	0
51	[P2â€™416]: IMPAIRMENT OF SPATIAL ORIENTATION IN MILD COGNITIVE IMPAIRMENT ASSOCIATES WITH REDUCED GLUCOSE METABOLISM, SPECIFICALLY IN THE ENTHORINAL CORTEX. Alzheimer's and Dementia, 2017, 13, P793.	0.4	0
52	[P1â€™361]: DIAGNOSTIC ACCURACY OF THE ETIOLOGICAL DIAGNOSIS OF NEWLY MANIFESTED COGNITIVE IMPAIRMENT IN GERIATRIC INPATIENTS INCLUDING CEREBRAL MRI AND FDGâ€PET. Alzheimer's and Dementia, 2017, 13, P397.	0.4	0
53	[P1â€™436]: IMPACT OF PLASMA GLUCOSE ON THE PATTERN OF BRAIN FDG UPTAKE IN COGNITIVELY NORMAL ELDERLY SUBJECTS. Alzheimer's and Dementia, 2017, 13, P448.	0.4	0
54	[P2â€™326]: FALSEâ€POSITIVE FDGâ€PET DIAGNOSIS OF AD IN GERIATRIC INPATIENTS WITH NEWLY MANIFESTED COGNITIVE IMPAIRMENT AND CEREBROVASCULAR DISEASE. Alzheimer's and Dementia, 2017, 13, P743.	0.4	0

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55	P3â€³50: ASSOCIATION OF FDG UPTAKE AND RSâ€¢FMRIâ€¢BASED EIGENVECTOR CENTRALITY IN COGNITIVE IMPAIRMENT. Alzheimer's and Dementia, 2018, 14, P1218.	0.4	0
56	P4â€¢103: PARKINSON'S DISEASE: BRAIN METABOLIC CORRELATES OF NIGROSTRIATAL DEGENERATION IN STRIATAL SUBREGIONS DEFINED BY CORTICOâ€¢STRIATAL CONNECTIVITY. Alzheimer's and Dementia, 2018, 14, P1477.	0.4	0
57	P2â€¢476: RESERVE AS FLUNCTIONAL CONNECTIVITY (IN COGNITIVE CONTROL NETWORKS) MODERATES THE IMPACT OF WHITE MATTER LESIONS IN AGING. Alzheimer's and Dementia, 2018, 14, P907.	0.4	0
58	P2â€¢428: BRAIN FDG PET FOR PREDICTION OF FURTHER COGNITIVE DECLINE OF ACUTELY HOSPITALIZED GERIATRIC PATIENTS WITH NEWLY MANIFESTED COGNITIVE IMPAIRMENT. Alzheimer's and Dementia, 2018, 14, P875.	0.4	0
59	Relationship between multimodal neuroimaging biomarkers and white matter hyperintensities across the Alzheimerâ€™s disease spectrum: A regionâ€¢ofâ€¢interestâ€¢and voxelâ€¢based study. Alzheimer's and Dementia, 2020, 16, e043343.	0.4	0
60	Performance comparison of automated white matter lesion segmentation algorithms in the DELCODE Study. Alzheimer's and Dementia, 2020, 16, e045367.	0.4	0
61	Metabolic risk factors, but not vascular lesions and Î²â€¢amyloid, are associated with functional connectivity across the Alzheimerâ€™s disease spectrum. Alzheimer's and Dementia, 2020, 16, e045917.	0.4	0
62	Severity of subjective cognitive complaints and worries in older adults are associated with cerebral amyloidâ€¢Î² load. Alzheimer's and Dementia, 2020, 16, e046098.	0.4	0
63	Vascular Health Is Associated With Functional Connectivity Decline in Higher-Order Networks of Older Adults. Frontiers in Integrative Neuroscience, 2022, 16, 847824.	1.0	0