

Catharina Lange

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

795
citations

567144

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all docs

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docs citations

67
times ranked

1326
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#	ARTICLE	IF	CITATIONS
1	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. <i>Clinical Nuclear Medicine</i> , 2022, 47, 123-129.	0.7	2
2	Vascular Health Is Associated With Functional Connectivity Decline in Higher-Order Networks of Older Adults. <i>Frontiers in Integrative Neuroscience</i> , 2022, 16, 847824.	1.0	0
3	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. <i>Alzheimer's Research and Therapy</i> , 2022, 14, .	3.0	1
4	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
5	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
6	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
7	Data-driven FDG-PET subtypes of Alzheimerâ€™s disease-related neurodegeneration. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 49.	3.0	44
8	Severity of Subjective Cognitive Complaints and Worries in Older Adults Are Associated With Cerebral Amyloid-Î² Load. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 675583.	1.7	9
9	Topographic patterns of white matter hyperintensities are associated with multimodal neuroimaging biomarkers of Alzheimerâ€™s disease. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 29.	3.0	24
10	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
11	FDGâ€™PET subtypes of Alzheimerâ€™s disease and their association with distinct biomarker profiles and clinical trajectories. <i>Alzheimer's and Dementia</i> , 2020, 16, e042101.	0.4	3
12	Relationship between multimodal neuroimaging biomarkers and white matter hyperintensities across the Alzheimerâ€™s disease spectrum: A regionâ€™ofâ€™interestâ€™ and voxelâ€™based study. <i>Alzheimer's and Dementia</i> , 2020, 16, e043343.	0.4	0
13	Performance comparison of automated white matter lesion segmentation algorithms in the DELCODE Study. <i>Alzheimer's and Dementia</i> , 2020, 16, e045367.	0.4	0
14	Metabolic risk factors, but not vascular lesions and Î²â€™amyloid, are associated with functional connectivity across the Alzheimerâ€™s disease spectrum. <i>Alzheimer's and Dementia</i> , 2020, 16, e045917.	0.4	0
15	Severity of subjective cognitive complaints and worries in older adults are associated with cerebral amyloidâ€™Î² load. <i>Alzheimer's and Dementia</i> , 2020, 16, e046098.	0.4	0
16	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
17	Movement disorders after hypoxic brain injury following cardiac arrest in adults. <i>European Journal of Neurology</i> , 2020, 27, 1937-1947.	1.7	10
18	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

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19	Impact of the size of the normal database on the performance of the specific binding ratio in dopamine transporter SPECT. EJNMMI Physics, 2020, 7, 34.	1.3	10
20	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
21	Plasma cortisol is associated with cerebral hypometabolism across the Alzheimer's disease spectrum. Neurobiology of Aging, 2019, 84, 80-89.	1.5	13
22	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. EJNMMI Research, 2019, 9, 37.	1.1	13
23	Automatic classification of dopamine transporter SPECT: deep convolutional neural networks can be trained to be robust with respect to variable image characteristics. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2800-2811.	3.3	37
24	Effects of spermidine supplementation on cognition and biomarkers in older adults with subjective cognitive decline (SmartAge) study protocol for a randomized controlled trial. Alzheimer's Research and Therapy, 2019, 11, 36.	3.0	74
25	ICP063: A TOPOGRAPHIC IMAGING BIOMARKER OF TDP43 PATHOLOGY IN AMNESTIC DEMENTIA BASED ON AUTOPSY-DERIVED FDGPET PATTERNS. Alzheimer's and Dementia, 2019, 15, P61.	0.4	3
26	Impact of plasma glucose level on the pattern of brain FDG uptake and the predictive power of FDG PET in mild cognitive impairment. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 1417-1422.	3.3	15
27	Magnetic resonance imaging-based hippocampus volume for prediction of dementia in mild cognitive impairment: Why does the measurement method matter so little?. Alzheimer's and Dementia, 2018, 14, 976-978.	0.4	4
28	Hypermetabolism in the hippocampal formation of cognitively impaired patients indicates detrimental maladaptation. Neurobiology of Aging, 2018, 65, 41-50.	1.5	21
29	P3050: ASSOCIATION OF FDG UPTAKE AND RSFMRI-BASED EIGENVECTOR CENTRALITY IN COGNITIVE IMPAIRMENT. Alzheimer's and Dementia, 2018, 14, P1218.	0.4	0
30	P4103: PARKINSON'S DISEASE: BRAIN METABOLIC CORRELATES OF NIGROSTRIATAL DEGENERATION IN STRIATAL SUBREGIONS DEFINED BY CORTICOSTRIATAL CONNECTIVITY. Alzheimer's and Dementia, 2018, 14, P1477.	0.4	0
31	P2476: RESERVE AS FUNCTIONAL CONNECTIVITY (IN COGNITIVE CONTROL NETWORKS) MODERATES THE IMPACT OF WHITE MATTER LESIONS IN AGING. Alzheimer's and Dementia, 2018, 14, P907.	0.4	0
32	Normal Values of Renal Function measured with 99mTechnetium Mercaptoacetyltriglycine SPECT in Mice with Respect to Age, Sex and Circadian Rhythm. Nuklearmedizin - NuclearMedicine, 2018, 57, 224-233.	0.3	4
33	P2428: 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
34	Functional connectivity in cognitive control networks mitigates the impact of white matter lesions in the elderly. Alzheimer's Research and Therapy, 2018, 10, 109.	3.0	47
35	Brain Perfusion Imaging Under Acetazolamide Challenge for Detection of Impaired Cerebrovascular Reserve Capacity: Positive Findings with ¹⁵ O-Water PET in Patients with Negative ^{99m} Tc-HMPAO SPECT Findings. Journal of Nuclear Medicine, 2018, 59, 294-298.	2.8	21
36	Normal Values of Thyroid Uptake of 99mTechnetium Pertechnetate SPECT in Mice with Respect to Age, Sex, and Circadian Rhythm. Nuklearmedizin - NuclearMedicine, 2018, 57, 181-189.	0.3	7

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37	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
38	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
39	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
40	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
41	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
42	[P1416]: IMPAIRMENT OF SPATIAL ORIENTATION IN MILD COGNITIVE IMPAIRMENT ASSOCIATES WITH REDUCED GLUCOSE METABOLISM, SPECIFICALLY IN THE ENTHORINAL CORTEX. <i>Alzheimer's and Dementia</i> , 2017, 13, P793.	0.4	0
43	[P1361]: DIAGNOSTIC ACCURACY OF THE ETIOLOGICAL DIAGNOSIS OF NEWLY MANIFESTED COGNITIVE IMPAIRMENT IN GERIATRIC INPATIENTS INCLUDING CEREBRAL MRI AND FDG-PET. <i>Alzheimer's and Dementia</i> , 2017, 13, P397.	0.4	0
44	[P1436]: IMPACT OF PLASMA GLUCOSE ON THE PATTERN OF BRAIN FDG UPTAKE IN COGNITIVELY NORMAL ELDERLY SUBJECTS. <i>Alzheimer's and Dementia</i> , 2017, 13, P448.	0.4	0
45	[P2326]: FALSE POSITIVE FDG-PET DIAGNOSIS OF AD IN GERIATRIC INPATIENTS WITH NEWLY MANIFESTED COGNITIVE IMPAIRMENT AND CEREBROVASCULAR DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P743.	0.4	0
46	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
47	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
48	Preserved brain metabolic activity at the age of 96 years. <i>International Psychogeriatrics</i> , 2016, 28, 1575-1577.	0.6	0
49	Semiquantitative slab view display for visual evaluation of 123I-FP-CIT SPECT. <i>Nuclear Medicine Communications</i> , 2016, 37, 509-518.	0.5	9
50	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
51	P2-227: Improved Diagnostic Accuracy in Newly Manifested Cognitive Impairment in Geriatric Inpatients: A Multicenter MRI and Pet Study. , 2016, 12, P708-P709.		0
52	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
53	IC-P119: Improved Diagnostic Accuracy in Newly Manifested Cognitive Impairment in Geriatric Inpatients: A Multicenter MRI and Pet Study. <i>Alzheimer's and Dementia</i> , 2016, 12, P89.	0.4	0
54	P3223: A Novel Marker for the Characterization of the Pattern of White Matter MRI Hyperintensities: The Weighted Confluency Sum Score. <i>Alzheimer's and Dementia</i> , 2016, 12, P911.	0.4	0

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55	P4Ì: Higher Metabolism in the Mesial Temporal Lobe is Associated With Poorer Cognitive Performance in Geriatric Inpatients. <i>Alzheimer's and Dementia</i> , 2016, 12, P1102.	0.4	0
56	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
57	Combination of Structural MRI and—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
58	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
59	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
60	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
61	Global scaling for semi-quantitative analysis in FP-CIT SPECT. <i>Nuklearmedizin - NuclearMedicine</i> , 2014, 53, 234-241.	0.3	24
62	CT-Based Attenuation Correction in I-123-Ioflupane SPECT. <i>PLoS ONE</i> , 2014, 9, e108328.	1.1	24
63	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