

# Maria Carla Gilardi

## List of Publications by Year in descending order

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72  
papers

1,849  
citations

236925

25  
h-index

289244

40  
g-index

72  
all docs

72  
docs citations

72  
times ranked

3023  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Standardized [18F]-FDG-PET Template for Spatial Normalization in Statistical Parametric Mapping of Dementia. <i>Neuroinformatics</i> , 2014, 12, 575-593.	2.8	240
2	Portrait of inflammatory response to ionizing radiation treatment. <i>Journal of Inflammation</i> , 2015, 12, 14.	3.4	208
3	Detection and compensation of organ/lesion motion using 4D-PET/CT respiratory gated acquisition techniques. <i>Radiotherapy and Oncology</i> , 2010, 96, 311-316.	0.6	54
4	Integration of mRNA Expression Profile, Copy Number Alterations, and microRNA Expression Levels in Breast Cancer to Improve Grade Definition. <i>PLoS ONE</i> , 2014, 9, e97681.	2.5	53
5	Respiratory gated PET/CT in a European multicentre retrospective study: added diagnostic value in detection and characterization of lung lesions. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 1381-1390.	6.4	50
6	Automated Prostate Gland Segmentation Based on an Unsupervised Fuzzy C-Means Clustering Technique Using Multispectral T1w and T2w MR Imaging. <i>Information (Switzerland)</i> , 2017, 8, 49.	2.9	48
7	Abnormal cardiovascular response to exercise in young asymptomatic diabetic patients with retinopathy. <i>American Heart Journal</i> , 1986, 112, 554-560.	2.7	44
8	Head Holder for PET, CT, and MR Studies. <i>Journal of Computer Assisted Tomography</i> , 1991, 15, 886-892.	0.9	43
9	A novel framework for MR image segmentation and quantification by using MedGA. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 176, 159-172.	4.7	43
10	NeXt for neuro-radiosurgery: A fully automatic approach for necrosis extraction in brain tumor MRI using an unsupervised machine learning technique. <i>International Journal of Imaging Systems and Technology</i> , 2018, 28, 21-37.	4.1	41
11	A fully automatic approach for multimodal PET and MR image segmentation in gamma knife treatment planning. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 144, 77-96.	4.7	39
12	Combining split-and-merge and multi-seed region growing algorithms for uterine fibroid segmentation in MRgFUS treatments. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1071-1084.	2.8	38
13	Computerized Neuropsychological Assessment in Aging: Testing Efficacy and Clinical Ecology of Different Interfaces. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-13.	1.3	36
14	Gamma Knife treatment planning: MR brain tumor segmentation and volume measurement based on unsupervised Fuzzy C-Means clustering. <i>International Journal of Imaging Systems and Technology</i> , 2015, 25, 213-225.	4.1	36
15	An enhanced random walk algorithm for delineation of head and neck cancers in PET studies. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 897-908.	2.8	35
16	PVE Correction in PET-CT Whole-Body Oncological Studies From PVE-Affected Images. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 736-747.	2.0	33
17	Motion Management in Positron Emission Tomography/Computed Tomography for Radiation Treatment Planning. <i>Seminars in Nuclear Medicine</i> , 2012, 42, 289-307.	4.6	32
18	GTVcut for neuro-radiosurgery treatment planning: an MRI brain cancer seeded image segmentation method based on a cellular automata model. <i>Natural Computing</i> , 2018, 17, 521-536.	3.0	32

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19	An elastic computerized brain atlas for the analysis of clinical PET/SPET data. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1995, 22, 1313-1318.	2.1	31
20	A Survey on Nature-Inspired Medical Image Analysis: A Step Further in Biomedical Data Integration. <i>Fundamenta Informaticae</i> , 2019, 171, 345-365.	0.4	31
21	Correlation of SPECT and PET cardiac images by a surface matching registration technique. <i>Computerized Medical Imaging and Graphics</i> , 1998, 22, 391-398.	5.8	30
22	A fully automatic 2D segmentation method for uterine fibroid in MRgFUS treatment evaluation. <i>Computers in Biology and Medicine</i> , 2015, 62, 277-292.	7.0	30
23	Radiation-Induced Gene Expression Changes in High and Low Grade Breast Cancer Cell Types. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1084.	4.1	28
24	High-Intensity Focused Ultrasound and Radiation Therapy Induced Immuno-Modulation: Comparison and Potential Opportunities. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 398-411.	1.5	27
25	A fully automatic method for biological target volume segmentation of brain metastases. <i>International Journal of Imaging Systems and Technology</i> , 2016, 26, 29-37.	4.1	25
26	Contrast enhanced 4D-CT imaging for target volume definition in pancreatic ductal adenocarcinoma. <i>Radiotherapy and Oncology</i> , 2008, 87, 339-342.	0.6	24
27	Cancer cell growth and survival as a system-level property sustained by enhanced glycolysis and mitochondrial metabolic remodeling. <i>Frontiers in Physiology</i> , 2012, 3, 362.	2.8	24
28	Genotyping analysis and 18FDG uptake in breast cancer patients: a preliminary research. <i>Journal of Experimental and Clinical Cancer Research</i> , 2013, 32, 23.	8.6	24
29	Cytokine profile of breast cell lines after different radiation doses. <i>International Journal of Radiation Biology</i> , 2017, 93, 1217-1226.	1.8	24
30	Gene expression profiling of epithelial-mesenchymal transition in primary breast cancer cell culture. <i>Anticancer Research</i> , 2014, 34, 2173-83.	1.1	24
31	High-dose Ionizing Radiation Regulates Gene Expression Changes in the MCF7 Breast Cancer Cell Line. <i>Anticancer Research</i> , 2015, 35, 2577-91.	1.1	24
32	Single-photon emission tomographic quantification in spherical objects: effects of object size and background. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1996, 23, 263-271.	2.1	23
33	Genetic, clinical and radiographic signs in knee osteoarthritis susceptibility. <i>Arthritis Research and Therapy</i> , 2014, 16, R91.	3.5	22
34	Dose distribution changes with shielding disc misalignments and wrong orientations in breast IOERT: a Monte Carlo GEANT4 and experimental study. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 74-92.	1.9	20
35	Aspects of three dimensional reconstruction for a multi ring positron tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1989, 15, 741-745.	2.1	19
36	Spatial registration of echocardiographic and positron emission tomographic heart studies. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1995, 22, 243-247.	2.1	19

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37	Time dependence of residual tissue viability after myocardial infarction assessed by [18F]fluorodeoxyglucose and positron emission tomography. American Journal of Cardiology, 1993, 72, G131-G139.	1.6	18
38	Theoretical and experimental study of the role of cell-cell dipole interaction in dielectrophoretic devices: application to polynomial electrodes. BioMedical Engineering OnLine, 2014, 13, 71.	2.7	18
39	PET in Psychopharmacology. Pharmacological Research, 2001, 44, 151-159.	7.1	17
40	Fast and high temperature hyperthermia coupled with radiotherapy as a possible new treatment for glioblastoma. Journal of Therapeutic Ultrasound, 2016, 4, 32.	2.2	15
41	Gene Expression Profiling of MCF10A Breast Epithelial Cells Exposed to IOERT. Anticancer Research, 2015, 35, 3223-34.	1.1	15
42	Gene expression profiling of breast cancer cell lines treated with proton and electron radiations. British Journal of Radiology, 2018, 91, 20170934.	2.2	14
43	Proton-irradiated breast cells: molecular points of view. Journal of Radiation Research, 2019, 60, 451-465.	1.6	14
44	The Application of a Statistical Shape Model to Diaphragm Tracking in Respiratory-Gated Cardiac PET Images. Proceedings of the IEEE, 2009, 97, 2039-2052.	21.3	13
45	A Graph-Based Method for PET Image Segmentation in Radiotherapy Planning: A Pilot Study. Lecture Notes in Computer Science, 2013, , 711-720.	1.3	12
46	Caveolin-1, breast cancer and ionizing radiation. Cancer Genomics and Proteomics, 2015, 12, 143-52.	2.0	12
47	Small-scale laser based electron accelerators for biology and medicine: a comparative study of the biological effectiveness. Proceedings of SPIE, 2013, , .	0.8	11
48	Evaluation of a New Regularization Prior for 3-D PET Reconstruction Including PSF Modeling. IEEE Transactions on Nuclear Science, 2012, 59, 88-101.	2.0	10
49	High-intensity focused ultrasound plus concomitant radiotherapy: a new weapon in oncology?. Journal of Therapeutic Ultrasound, 2013, 1, 6.	2.2	10
50	DVWA gene polymorphisms and osteoarthritis. BMC Research Notes, 2015, 8, 30.	1.4	10
51	A Low-Dose CT-Based Radiomic Model to Improve Characterization and Screening Recall Intervals of Indeterminate Prevalent Pulmonary Nodules. Diagnostics, 2021, 11, 1610.	2.6	10
52	A hybrid method of attenuation correction for positron emission tomography brain studies. European Journal of Nuclear Medicine and Molecular Imaging, 1994, 21, 1279-1284.	2.1	9
53	Semi-automatic Brain Lesion Segmentation in Gamma Knife Treatments Using an Unsupervised Fuzzy C-Means Clustering Technique. Smart Innovation, Systems and Technologies, 2016, , 15-26.	0.6	9
54	4D PET data sorting into different number of phases: a NEMA IQ phantom study. Journal of Applied Clinical Medical Physics, 2009, 10, 220-231.	1.9	8

#	ARTICLE	IF	CITATIONS
55	A Semi-automatic Multi-seed Region-Growing Approach for Uterine Fibroids Segmentation in MRgFUS Treatment. , 2013, , .		8
56	Fully Automatic Multispectral MR Image Segmentation of Prostate Gland Based on the Fuzzy C-Means Clustering Algorithm. Smart Innovation, Systems and Technologies, 2018, , 23-37.	0.6	8
57	Can magnetic resonance image-guided focused ultrasound surgery replace local oncology treatments? A review. Tumori, 2011, 97, 259-64.	1.1	8
58	Regularized ML reconstruction for time/dose reduction in <sup>18</sup> F-fluoride PET/CT studies. Physics in Medicine and Biology, 2015, 60, 67-80.	3.0	7
59	Optimized Bayes variational regularization prior for 3D PET images. Computerized Medical Imaging and Graphics, 2014, 38, 445-457.	5.8	6
60	An Automatic Method for Metabolic Evaluation of Gamma Knife Treatments. Lecture Notes in Computer Science, 2015, , 579-589.	1.3	6
61	Quantitative radionuclide angiocardiology using gold-195m. American Journal of Cardiology, 1984, 53, 1442-1446.	1.6	5
62	Prone 18F-FDG PET/CT changes diagnostic and surgical intervention in a breast cancer patient: some considerations about PET/CT imaging acquisition protocol. Clinical Imaging, 2015, 39, 506-509.	1.5	5
63	Cancer Therapy Combining High-Intensity Focused Ultrasound and Megavoltage Radiation. International Journal of Radiation Oncology Biology Physics, 2014, 89, 926-927.	0.8	4
64	Neuro-Radiosurgery Treatments: MRI Brain Tumor Seeded Image Segmentation Based on a Cellular Automata Model. Lecture Notes in Computer Science, 2016, , 323-333.	1.3	4
65	Reconstruction of uptake patterns in <sup>18</sup> F-FDG PET: The influence of regularizing prior. Medical Physics, 2017, 44, 1823-1836.	3.0	3
66	Adaptive threshold method based on PET measured lesion-to-background ratio for the estimation of Metabolic Target Volume from <sup>18</sup> F-FDG PET images. , 2013, , .		2
67	Evaluation of a new regularization prior for 3D PET reconstruction including PSF modelling. , 2010, , .		1
68	Grid-distributed Statistical Parametric Mapping of SPECT and PET Neuroimages. Neuroinformatics, 2011, 9, 85-90.	2.8	1
69	Candidate biomarkers for response to tamoxifen in breast cancer metastatic patients. , 2013, , .		1
70	Computer-Assisted Approaches for Uterine Fibroid Segmentation in MRgFUS Treatments: Quantitative Evaluation and Clinical Feasibility Analysis. Smart Innovation, Systems and Technologies, 2019, , 229-241.	0.6	1
71	Metabolic changes after MRgFUS treatment of a bone metastasis using PET/CT: A case report. , 2012, , .		0
72	E-Health Decision Support Systems for the Diagnosis of Dementia Diseases. , 2013, , 84-97.		0