Maria Carla Gilardi

List of Publications by Year
in descending order

72 papers	1,849 citations	270111 25 h-index	325983 40 g-index
72 all docs	72 docs citations	72 times ranked	3291 citing authors

#	Article	IF	Citations
1	A Low-Dose CT-Based Radiomic Model to Improve Characterization and Screening Recall Intervals of Indeterminate Prevalent Pulmonary Nodules. Diagnostics, 2021, 11, 1610.	1.3	10
2	Proton-irradiated breast cells: molecular points of view. Journal of Radiation Research, 2019, 60, 451-465.	0.8	14
3	A novel framework for MR image segmentation and quantification by using MedGA. Computer Methods and Programs in Biomedicine, 2019, 176, 159-172.	2.6	43
4	A Survey on Nature-Inspired Medical Image Analysis: A Step Further in Biomedical Data Integration. Fundamenta Informaticae, 2019, 171, 345-365.	0.3	31
5	Computer-Assisted Approaches for Uterine Fibroid Segmentation in MRgFUS Treatments: Quantitative Evaluation and Clinical Feasibility Analysis. Smart Innovation, Systems and Technologies, 2019, , 229-241.	0.5	1
6	NeXt for neuroâ€radiosurgery: A fully automatic approach for necrosis extraction in brain tumor MRI using an unsupervised machine learning technique. International Journal of Imaging Systems and Technology, 2018, 28, 21-37.	2.7	41
7	GTVcut for neuro-radiosurgery treatment planning: an MRI brain cancer seeded image segmentation method based on a cellular automata model. Natural Computing, 2018, 17, 521-536.	1.8	32
8	Radiation-Induced Gene Expression Changes in High and Low Grade Breast Cancer Cell Types. International Journal of Molecular Sciences, 2018, 19, 1084.	1.8	28
9	Gene expression profiling of breast cancer cell lines treated with proton and electron radiations. British Journal of Radiology, 2018, 91, 20170934.	1.0	14
10	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.	0.5	8
11	Reconstruction of uptake patterns in <scp>PET</scp>: The influence of regularizing prior. Medical Physics, 2017, 44, 1823-1836.	1.6	3
12	A fully automatic approach for multimodal PET and MR image segmentation in gamma knife treatment planning. Computer Methods and Programs in Biomedicine, 2017, 144, 77-96.	2.6	39
13	Cytokine profile of breast cell lines after different radiation doses. International Journal of Radiation Biology, 2017, 93, 1217-1226.	1.0	24
14	High-Intensity Focused Ultrasoundâ€“ and Radiation Therapyâ€“Induced Immuno-Modulation: Comparison and Potential Opportunities. Ultrasound in Medicine and Biology, 2017, 43, 398-411.	0.7	27
15	An enhanced random walk algorithm for delineation of head and neck cancers in PET studies. Medical and Biological Engineering and Computing, 2017, 55, 897-908.	1.6	35
16	Automated Prostate Gland Segmentation Based on an Unsupervised Fuzzy C-Means Clustering Technique Using Multispectral T1w and T2w MR Imaging. Information (Switzerland), 2017, 8, 49.	1.7	48
17	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
18	Neuro-Radiosurgery Treatments: MRI Brain Tumor Seeded Image Segmentation Based on a Cellular Automata Model. Lecture Notes in Computer Science, 2016, , 323-333.	1.0	4

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19	A fully automatic method for biological target volume segmentation of brain metastases. International Journal of Imaging Systems and Technology, 2016, 26, 29-37.	2.7	25
20	Combining split-and-merge and multi-seed region growing algorithms for uterine fibroid segmentation in MRgFUS treatments. Medical and Biological Engineering and Computing, 2016, 54, 1071-1084.	1.6	38
21	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.	0.5	9
22	Gamma Knife treatment planning: MR brain tumor segmentation and volume measurement based on unsupervised Fuzzy C-Means clustering. International Journal of Imaging Systems and Technology, 2015, 25, 213-225.	2.7	36
23	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.	0.8	5
24	Regularized ML reconstruction for time/dose reduction in¹⁸F-fluoride PET/CT studies. Physics in Medicine and Biology, 2015, 60, 67-80.	1.6	7
25	A fully automatic 2D segmentation method for uterine fibroid in MRgFUS treatment evaluation. Computers in Biology and Medicine, 2015, 62, 277-292.	3.9	30
26	Portrait of inflammatory response to ionizing radiation treatment. Journal of Inflammation, 2015, 12, 14.	1.5	208
27	DVWA gene polymorphisms and osteoarthritis. BMC Research Notes, 2015, 8, 30.	0.6	10
28	An Automatic Method for Metabolic Evaluation of Gamma Knife Treatments. Lecture Notes in Computer Science, 2015, , 579-589.	1.0	6
29	High-dose Ionizing Radiation Regulates Gene Expression Changes in the MCF7 Breast Cancer Cell Line. Anticancer Research, 2015, 35, 2577-91.	0.5	24
30	Caveolin-1, breast cancer and ionizing radiation. Cancer Genomics and Proteomics, 2015, 12, 143-52.	1.0	12
31	Gene Expression Profiling of MCF10A Breast Epithelial Cells Exposed to IOERT. Anticancer Research, 2015, 35, 3223-34.	0.5	15
32	Integration of mRNA Expression Profile, Copy Number Alterations, and microRNA Expression Levels in Breast Cancer to Improve Grade Definition. PLoS ONE, 2014, 9, e97681.	1.1	53
33	A Standardized [18F]-FDG-PET Template for Spatial Normalization in Statistical Parametric Mapping of Dementia. Neuroinformatics, 2014, 12, 575-593.	1.5	240
34	Computerized Neuropsychological Assessment in Aging: Testing Efficacy and Clinical Ecology of Different Interfaces. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-13.	0.7	36
35	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.	1.3	18
36	Genetic, clinical and radiographic signs in knee osteoarthritis susceptibility. Arthritis Research and Therapy, 2014, 16, R91.	1.6	22

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37	Optimized Bayes variational regularization prior for 3D PET images. Computerized Medical Imaging and Graphics, 2014, 38, 445-457.	3.5	6
38	Cancer Therapy Combining High-Intensity Focused Ultrasound and Megavoltage Radiation. International Journal of Radiation Oncology Biology Physics, 2014, 89, 926-927.	0.4	4
39	Gene expression profiling of epithelial-mesenchymal transition in primary breast cancer cell culture. Anticancer Research, 2014, 34, 2173-83.	0.5	24
40	High-intensity focused ultrasound plus concomitant radiotherapy: a new weapon in oncology?. Journal of Therapeutic Ultrasound, 2013, 1, 6.	2.2	10
41	A Semi-automatic Multi-seed Region-Growing Approach for Uterine Fibroids Segmentation in MRgFUS Treatment. , 2013, , .		8
42	Genotyping analysis and 18FDG uptake in breast cancer patients: a preliminary research. Journal of Experimental and Clinical Cancer Research, 2013, 32, 23.	3.5	24
43	Candidate biomarkers for response to tamoxifen in breast cancer metastatic patients. , 2013, , .		1
44	Small-scale laser based electron accelerators for biology and medicine: a comparative study of the biological effectiveness. Proceedings of SPIE, 2013, , .	0.8	11
45	Adaptive threshold method based on PET measured lesion-to-background ratio for the estimation of Metabolic Target Volume from ¹⁸F-FDG PET images. , 2013, , .		2
46	A Graph-Based Method for PET Image Segmentation in Radiotherapy Planning: A Pilot Study. Lecture Notes in Computer Science, 2013, , 711-720.	1.0	12
47	E-Health Decision Support Systems for the Diagnosis of Dementia Diseases. , 2013, , 84-97.		0
48	Cancer cell growth and survival as a system-level property sustained by enhanced glycolysis and mitochondrial metabolic remodeling. Frontiers in Physiology, 2012, 3, 362.	1.3	24
49	Metabolic changes after MRgFUS treatment of a bone metastasis using PET/CT: A case report. , 2012, , .		0
50	Evaluation of a New Regularization Prior for 3-D PET Reconstruction Including PSF Modeling. IEEE Transactions on Nuclear Science, 2012, 59, 88-101.	1.2	10
51	Dose distribution changes with shielding disc misalignments and wrong orientations in breast IOERT: a Monte Carlo â€“ GEANT4 and experimental study. Journal of Applied Clinical Medical Physics, 2012, 13, 74-92.	0.8	20
52	Motion Management in Positron Emission Tomography/Computed Tomography for Radiation Treatment Planning. Seminars in Nuclear Medicine, 2012, 42, 289-307.	2.5	32
53	Respiratory gated PET/CT in a European multicentre retrospective study: added diagnostic value in detection and characterization of lung lesions. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1381-1390.	3.3	50
54	PVE Correction in PET-CT Whole-Body Oncological Studies From PVE-Affected Images. IEEE Transactions on Nuclear Science, 2011, 58, 736-747.	1.2	33

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55	Grid-distributed Statistical Parametric Mapping of SPECT and PET Neuroimages. Neuroinformatics, 2011, 9, 85-90.	1.5	1
56	Can magnetic resonance image-guided focused ultrasound surgery replace local oncology treatments? A review. Tumori, 2011, 97, 259-64.	0.6	8
57	Evaluation of a new regularization prior for 3D PET reconstruction including PSF modelling. , 2010, , .		1
58	Detection and compensation of organ/lesion motion using 4D-PET/CT respiratory gated acquisition techniques. Radiotherapy and Oncology, 2010, 96, 311-316.	0.3	54
59	The Application of a Statistical Shape Model to Diaphragm Tracking in Respiratory-Gated Cardiac PET Images. Proceedings of the IEEE, 2009, 97, 2039-2052.	16.4	13
60	4Dâ€PET data sorting into different number of phases: a NEMA IQ phantom study. Journal of Applied Clinical Medical Physics, 2009, 10, 220-231.	0.8	8
61	Contrast enhanced 4D-CT imaging for target volume definition in pancreatic ductal adenocarcinoma. Radiotherapy and Oncology, 2008, 87, 339-342.	0.3	24
62	PET in Psychopharmacology. Pharmacological Research, 2001, 44, 151-159.	3.1	17
63	Correlation of SPECT and PET cardiac images by a surface matching registration technique. Computerized Medical Imaging and Graphics, 1998, 22, 391-398.	3.5	30
64	Single-photon emission tomographic quantification in spherical objects: effects of object size and background. European Journal of Nuclear Medicine and Molecular Imaging, 1996, 23, 263-271.	2.2	23
65	Spatial registration of echocardiographic and positron emission tomographic heart studies. European Journal of Nuclear Medicine and Molecular Imaging, 1995, 22, 243-247.	2.2	19
66	An elastic computerized brain atlas for the analysis of clinical PET/SPET data. European Journal of Nuclear Medicine and Molecular Imaging, 1995, 22, 1313-1318.	2.2	31
67	A hybrid method of attenuation correction for positron emission tomography brain studies. European Journal of Nuclear Medicine and Molecular Imaging, 1994, 21, 1279-1284.	2.2	9
68	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.	0.7	18
69	Head Holder for PET, CT, and MR Studies. Journal of Computer Assisted Tomography, 1991, 15, 886-892.	0.5	43
70	Aspects of three dimensional reconstruction for a multi ring positron tomography. European Journal of Nuclear Medicine and Molecular Imaging, 1989, 15, 741-745.	2.2	19
71	Abnormal cardiovascular response to exercise in young asymptomatic diabetic patients with retinopathy. American Heart Journal, 1986, 112, 554-560.	1.2	44
72	Quantitative radionuclide angiocardiography using gold-195m. American Journal of Cardiology, 1984, 53, 1442-1446.	0.7	5