George C Kagadis

List of Publications by Year
in descending order

115 papers	3,398 citations	134610 34 h-index	182931 54 g-index
117 all docs	117 docs citations	117 times ranked	4273 citing authors

#	Article	IF	Citations
1	Optimization of In Vivo Studies by Combining Planar Dynamic and Tomographic Imaging: Workflow Evaluation on a Superparamagnetic Nanoparticles System. Molecular Imaging, 2021, 2021, 6677847.	0.7	1
2	Clinical Evaluation of a Three-Dimensional Internal Dosimetry Technique for Liver Radioembolization with ⁹⁰Y Microspheres Using Dose Voxel Kernels. Cancer Biotherapy and Radiopharmaceuticals, 2021, 36, 809-819.	0.7	5
3	IDDRRA: A novel platform, based on Geant4â€DNA to quantify DNA damage by ionizing radiation. Medical Physics, 2021, 48, 2624-2636.	1.6	9
4	Artificial intelligence: Deep learning in oncological radiomics and challenges of interpretability and data harmonization. Physica Medica, 2021, 83, 108-121.	0.4	85
5	Expanding the medical physicist curricular and professional programme to include Artificial Intelligence. Physica Medica, 2021, 83, 174-183.	0.4	23
6	An in-silico method to predict and quantify the effect of gold nanoparticles in X-ray imaging. Physica Medica, 2021, 89, 160-168.	0.4	4
7	Simulation of intracranial hemodynamics by an efficient and accurate immersed boundary scheme. International Journal for Numerical Methods in Biomedical Engineering, 2021, , e3524.	1.0	0
8	Standardization and Validation of Brachytherapy Seedsâ€™ Modelling Using GATE and GGEMS Monte Carlo Toolkits. Cancers, 2021, 13, 5315.	1.7	2
9	A deepâ€learningâ€based prediction model for the biodistribution of ⁹⁰Y microspheres in liver radioembolization. Medical Physics, 2021, 48, 7427-7438.	1.6	7
10	Using kinetic monte carlo simulations to design efficient magnetic nanoparticles for clinical hyperthermia. Medical Physics, 2021, , .	1.6	3
11	2D perfusion DSA with an open-source, semi-automated, color-coded software for the quantification of foot perfusion following infrapopliteal angioplasty: a feasibility study. European Radiology Experimental, 2020, 4, 47.	1.7	7
12	Magnetic fluid hyperthermia simulations in evaluation of SAR calculation methods. Physica Medica, 2020, 71, 39-52.	0.4	24
13	Ionizing Radiation and Complex DNA Damage: Quantifying the Radiobiological Damage Using Monte Carlo Simulations. Cancers, 2020, 12, 799.	1.7	57
14	Deep learning networks on chronic liver disease assessment with fine-tuning of shear wave elastography image sequences. Physics in Medicine and Biology, 2020, 65, 215027.	1.6	15
15	Size-specific dose estimations for pediatric chest, abdomen/pelvis and head CT scans with the use of GATE. Physica Medica, 2019, 65, 181-190.	0.4	10
16	Temporal stability assessment in shear wave elasticity images validated by deep learning neural network for chronic liver disease fibrosis stage assessment. Medical Physics, 2019, 46, 2298-2309.	1.6	41
17	Quantification of <scp>DNA</scp> doubleâ€strand breaks using Geant4â€<scp>DNA</scp>. Medical Physics, 2019, 46, 405-413.	1.6	23
18	A Review on Personalized Pediatric Dosimetry Applications Using Advanced Computational Tools. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 607-620.	2.7	7

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19	A personalized, Monte Carloâ€based method for internal dosimetric evaluation of radiopharmaceuticals in children. Medical Physics, 2018, 45, 3939-3949.	1.6	13
20	Focal liver lesions segmentation and classification in nonenhanced T2-weighted MRI. Medical Physics, 2017, 44, 3695-3705.	1.6	35
21	Abstract ID: 75 Validating Geant4-DNA for Double Strand Brakes (DSB): A preliminary study. Physica Medica, 2017, 42, 14-15.	0.4	1
22	A Machine-Learning Algorithm Toward Color Analysis for Chronic Liver Disease Classification, Employing Ultrasound Shear Wave Elastography. Ultrasound in Medicine and Biology, 2017, 43, 1797-1810.	0.7	71
23	1st European Congress of Medical Physics September 1â€“4, 2016; Medical Physics innovation and vision within Europe and beyond. Physica Medica, 2017, 41, 1-4.	0.4	0
24	A new computer aided diagnosis system for evaluation of chronic liver disease with ultrasound shear wave elastography imaging. Medical Physics, 2016, 43, 1428-1436.	1.6	23
25	Digital Subtracted Angiography of Small Animals. Imaging in Medical Diagnosis and Therapy, 2016, , 67-76.	0.0	0
26	A minimally invasive endovascular rabbit model for experimental induction of progressive myocardial hypertrophy. Hypertension Research, 2016, 39, 840-847.	1.5	3
27	A preclinical simulated dataset ofS-values and investigation of the impact of rescaled organ masses using the MOBY phantom. Physics in Medicine and Biology, 2016, 61, 2333-2355.	1.6	21
28	Optimal Elasticity cut-off value for discriminating Healthy to Pathological Fibrotic patients employing Fuzzy C-Means automatic segmentation in Liver Shear Wave Elastography images. Journal of Physics: Conference Series, 2015, 637, 012008.	0.3	0
29	A new automated quantification algorithm for the detection and evaluation of focal liver lesions with contrastâ€enhanced ultrasound. Medical Physics, 2015, 42, 3948-3959.	1.6	39
30	Long-Term Clinical Outcomes of Infrapopliteal Drug-Eluting Stent Placement for Critical Limb Ischemia in Diabetic Patients. Journal of Vascular and Interventional Radiology, 2015, 26, 1423-1430.	0.2	24
31	Multiresolution edge detection using enhanced fuzzy c-means clustering for ultrasound image speckle reduction. Medical Physics, 2014, 41, 072903.	1.6	14
32	Evaluation of Î±_{Î½}Î²₃-Mediated Tumor Expression with a ^{99m}Tc-Labeled Ornithine-Modified RGD Derivative During Glioblastoma Growth In Vivo. Cancer Biotherapy and Radiopharmaceuticals, 2014, 29, 444-450.	0.7	1
33	Exploitation of realistic computational anthropomorphic phantoms for the optimization of nuclear imaging acquisition and processing protocols. , 2014, 2014, 1921-4.		1
34	Real-time tumor ablation simulation based on the dynamic mode decomposition method. Medical Physics, 2014, 41, 053301.	1.6	20
35	Incidence of Arterial Micro-embolization During Percutaneous AngioJet Thrombectomy of Hemodialysis Grafts. CardioVascular and Interventional Radiology, 2014, 37, 405-411.	0.9	6
36	Automatic quantification of contrast enhanced ultrasound liver imaging. Physica Medica, 2014, 30, e53-e54.	0.4	1

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37	99m Tc-labeled aminosilane-coated iron oxide nanoparticles for molecular imaging of Î±Î½Î²3 -mediated tumor expression and feasibility for hyperthermia treatment. Journal of Colloid and Interface Science, 2014, 433, 163-175.	5.0	55
38	Optical coherence tomography provides images similar to histology and allows the performance of extensive measurements of drug-eluting metal stents in animal ureters. Lasers in Medical Science, 2014, 29, 1453-1462.	1.0	1
39	Cloud computing in medical imaging. Medical Physics, 2013, 40, 070901.	1.6	105
40	Hepatitis C in patients with Î²-thalassemia major. A single-centre experience. Annals of Hematology, 2013, 92, 739-746.	0.8	16
41	PDE5 inhibition against acute renal ischemia reperfusion injury in rats: does vardenafil offer protection?. World Journal of Urology, 2013, 31, 597-602.	1.2	14
42	Biological evaluation of an ornithine-modified 99mTc-labeled RGD peptide as an angiogenesis imaging agent. Nuclear Medicine and Biology, 2013, 40, 262-272.	0.3	31
43	Medical Imaging Displays and Their Use in Image Interpretation. Radiographics, 2013, 33, 275-290.	1.4	36
44	Vision 20/20: Automation and advanced computing in clinical radiation oncology. Medical Physics, 2013, 41, 010901.	1.6	45
45	Investigation of realistic PET simulations incorporating tumor patientËˆs specificity using anthropomorphic models: Creation of an oncology database. Medical Physics, 2013, 40, 112506.	1.6	26
46	An introduction to molecular imaging in radiation oncology: A report by the AAPM Working Group on Molecular Imaging in Radiation Oncology (WGMIR). Medical Physics, 2013, 40, 101501.	1.6	10
47	Automatic quantitative analysis of inâ€stent restenosis using FDâ€OCT in vivo intraâ€arterial imaging. Medical Physics, 2013, 40, 063101.	1.6	20
48	Emerging technologies for image guidance and device navigation in interventional radiology. Medical Physics, 2012, 39, 5768-5781.	1.6	30
49	Parstatin Prevents Renal Injury following Ischemia/Reperfusion and Radiocontrast Administration. American Journal of Nephrology, 2012, 36, 278-286.	1.4	7
50	Human contrastâ€detail performance with declining contrast. Medical Physics, 2012, 39, 5446-5456.	1.6	2
51	Hysterosalpingography using a flat panel unit: Evaluation and optimization of ovarian radiation dose. Medical Physics, 2012, 39, 4404-4413.	1.6	7
52	A dose point kernel database using GATE Monte Carlo simulation toolkit for nuclear medicine applications: Comparison with other Monte Carlo codes. Medical Physics, 2012, 39, 5238-5247.	1.6	80
53	Subintimal Angioplasty of Long Chronic Total Femoropopliteal Occlusions: Long-Term Outcomes, Predictors of Angiographic Restenosis, and Role of Stenting. CardioVascular and Interventional Radiology, 2012, 35, 483-490.	0.9	27
54	Therapeutic angiogenesis for myocardial ischemia revisited: basic biological concepts and focus on latest clinical trials. Angiogenesis, 2012, 15, 1-22.	3.7	116

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55	Using an Open-Source PACS Virtual Machine for a Digital Angiography Unit: Methods and Initial Impressions. Journal of Digital Imaging, 2012, 25, 81-90.	1.6	8
56	Photon dose kernels dataset for nuclear medicine dosimetry, using the GATE Monte Carlo toolkit. , 2011, , .		2
57	Primary Everolimus-Eluting Stenting Versus Balloon Angioplasty With Bailout Bare Metal Stenting of Long Infrapopliteal Lesions for Treatment of Critical Limb Ischemia. Journal of Endovascular Therapy, 2011, 18, 1-12.	0.8	73
58	Masseter muscle function after percutaneous balloon compression of trigeminal ganglion for the treatment of trigeminal neuralgia: A neurophysiological follow-up study. Clinical Neurophysiology, 2011, 122, 410-413.	0.7	13
59	Current status and future perspectives of in vivo small animal imaging using radiolabeled nanoparticles. European Journal of Radiology, 2011, 78, 287-295.	1.2	48
60	Automatic vessel lumen segmentation and stent strut detection in intravascular optical coherence tomography. Medical Physics, 2011, 39, 503-513.	1.6	96
61	Virtual Bronchoscopy and Other Three-Dimensional Imaging Methods. Progress in Respiratory Research, 2010, , 95-112.	0.1	2
62	In vivo small animal imaging: Current status and future prospects. Medical Physics, 2010, 37, 6421-6442.	1.6	121
63	Cryoplasty Versus Conventional Balloon Angioplasty of the Femoropopliteal Artery in Diabetic Patients: Long-Term Results from a Prospective Randomized Single-Center Controlled Trial. CardioVascular and Interventional Radiology, 2010, 33, 929-938.	0.9	53
64	An automated computerized methodology for the segmentation of in vivo acquired DSA images: application in the New Zealand hindlimb ischemia model. Journal of Instrumentation, 2009, 4, P05014-P05014.	0.5	0
65	Nucleus ventralis oralis deep brain stimulation in postanoxic dystonia. Movement Disorders, 2009, 24, 306-308.	2.2	17
66	Deep brain stimulation for secondary dystonia: results in 8 patients. Acta Neurochirurgica, 2009, 151, 473-478.	0.9	85
67	Xihong Hu, Guoying Huang, Mier Pa. Multidetector Computed Tomography for Assessing a Pulmonary Artery Sling in a Pediatric Patient. Pediatr Cardiol 2008; 29:1006â€“1007. Pediatric Cardiology, 2009, 30, 570-570.	0.6	0
68	Thrombin promotes arteriogenesis and hemodynamic recovery in a rabbit hindlimb ischemia model. Journal of Vascular Surgery, 2009, 49, 1000-1012.	0.6	17
69	Infrapopliteal Application of Sirolimus-eluting versus Bare Metal Stents for Critical Limb Ischemia: Analysis of Long-term Angiographic and Clinical Outcome. Journal of Vascular and Interventional Radiology, 2009, 20, 1141-1150.	0.2	112
70	Incidence, Anatomical Location, and Clinical Significance of Compressions and Fractures in Infrapopliteal Balloon-Expandable Metal Stents. Journal of Endovascular Therapy, 2009, 16, 15-22.	0.8	63
71	Ureteral Metal Stents: 10-Year Experience With Malignant Ureteral Obstruction Treatment. Journal of Urology, 2009, 182, 2613-2618.	0.2	89
72	Information technology resource management in radiation oncology[*]. Journal of Applied Clinical Medical Physics, 2009, 10, 16-35.	0.8	21

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73	Anniversary Paper: Roles of medical physicists and health care applications of informatics. Medical Physics, 2008, 35, 119-127.	1.6	6
74	Computational representation and hemodynamic characterization of in vivo acquired severe stenotic renal artery geometries using turbulence modeling. Medical Engineering and Physics, 2008, 30, 647-660.	0.8	36
75	Computerized Analysis of Digital Subtraction Angiography: A Tool for Quantitative In-vivo Vascular Imaging. Journal of Digital Imaging, 2008, 21, 433-445.	1.6	13
76	Improving brain tumor characterization on MRI by probabilistic neural networks and non-linear transformation of textural features. Computer Methods and Programs in Biomedicine, 2008, 89, 24-32.	2.6	113
77	Molecular imaging and the unification of multilevel mechanisms and data in medical physics. Medical Physics, 2008, 35, 3444-3452.	1.6	4
78	Genes expression level quantification using a spot-based algorithmic pipeline. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1148-51.	0.5	0
79	Colour-Texture based image analysis method for assessing the Hormone Receptors status in Breast tissue sections. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4985-8.	0.5	9
80	Application of Paclitaxel-Eluting Metal Stents in Renal Artery of Pig Model. Journal of Endourology, 2007, 21, 1571-1576.	1.1	1
81	Improving gene quantification by adjustable spot-image restoration. Bioinformatics, 2007, 23, 2265-2272.	1.8	14
82	Sirolimus-Eluting versus Bare Stents after Suboptimal Infrapopliteal Angioplasty for Critical Limb Ischemia: Enduring 1-Year Angiographic and Clinical Benefit. Journal of Endovascular Therapy, 2007, 14, 241-250.	0.8	106
83	Metal Stents in the Urinary Tract. EAU-EBU Update Series, 2007, 5, 77-88.	0.7	20
84	Preoperative evaluation of the trachea in a child with pulmonary artery sling using 3-dimensional computed tomographic imaging and virtual bronchoscopy. Journal of Pediatric Surgery, 2007, 42, e9-e13.	0.8	17
85	Application of Self-Expandable Metal Stents for Ureteroileal Anastomotic Strictures: Long-Term Results. Journal of Urology, 2007, 178, 169-173.	0.2	38
86	Re: Bradyarrhythmias during Use of the AngioJet System. Journal of Vascular and Interventional Radiology, 2007, 18, 937.	0.2	13
87	Infrapopliteal Application of Paclitaxel-eluting Stents for Critical Limb Ischemia: Midterm Angiographic and Clinical Results. Journal of Vascular and Interventional Radiology, 2007, 18, 1351-1361.	0.2	64
88	Tumoral and non-tumoral trachea stenoses: evaluation with three-dimensional CT and virtual bronchoscopy. Journal of Cardiothoracic Surgery, 2007, 2, 18.	0.4	36
89	Percutaneous Balloon Compression for Trigeminal Neuralgias and Autonomic Cephalalgia. Headache, 2007, 48, 071115145930002-???.	1.8	6
90	A hybrid pixel-based classification method for blood vessel segmentation and aneurysm detection on CTA. Computers and Graphics, 2007, 31, 493-500.	1.4	12

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91	Application of Paclitaxel-Eluting Metal Mesh Stents within the Pig Ureter: An Experimental Study. European Urology, 2007, 51, 217-223.	0.9	56
92	Digital subtraction angiography and computer assisted image analysis for the evaluation of the antiangiogenetic effect of ionizing radiation on tumor angiogenesis. International Urology and Nephrology, 2007, 38, 407-411.	0.6	5
93	Sirolimus-eluting Versus Bare Stents After Suboptimal Infrapopliteal Angioplasty for Critical Limb Ischemia: Enduring 1-year Angiographic and Clinical Benefit. Journal of Endovascular Therapy, 2007, 14, 241-250.	0.8	64
94	Transauricular Arterial or Venous Access for Cardiovascular Experimental Protocols in Animals. Journal of Vascular and Interventional Radiology, 2006, 17, 1803-1811.	0.2	27
95	Virtual endoscopy of the urinary tract. Asian Journal of Andrology, 2006, 8, 31-38.	0.8	19
96	A theoretical model evaluating the angular distribution of luminescence emission in X-ray scintillating screens. Applied Radiation and Isotopes, 2006, 64, 508-519.	0.7	13
97	Thrombin effectuates therapeutic arteriogenesis in the rabbit hindlimb ischemia model: A quantitative analysis by computerized in vivo imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 622-625.	0.7	2
98	Distal Embolism During Percutaneous Revascularization of Infra-Aortic Arterial Occlusive Disease:An Underestimated Phenomenon. Journal of Endovascular Therapy, 2006, 13, 269-280.	0.8	89
99	Reply:. Journal of Endovascular Therapy, 2006, 13, 698-699.	0.8	1
100	It is important that medical physicists be involved in the development and implementation of integrated hospital information systems. Medical Physics, 2006, 33, 4455-4458.	1.6	8
101	Light emission efficiency and imaging performance of Y3Al5O12: Ce (YAG: Ce) powder screens under diagnostic radiology conditions. Applied Physics B: Lasers and Optics, 2005, 80, 923-933.	1.1	19
102	Sirolimus-Eluting Versus Bare Stents for Bailout After Suboptimal Infrapopliteal Angioplasty for Critical Limb Ischemia: 6-Month Angiographic Results From a Nonrandomized Prospective Single-Center Study. Journal of Endovascular Therapy, 2005, 12, 685-695.	0.8	110
103	Virtual Endoscopy: Navigation within Pelvicaliceal System. Journal of Endourology, 2005, 19, 37-40.	1.1	10
104	Ureteral Metal Stents: A Tale or a Tool?. Journal of Endourology, 2005, 19, 934-939.	1.1	32
105	AngioJet Rheolytic Thrombectomy Versus Local Intrapulmonary Thrombolysis in Massive Pulmonary Embolism:A Retrospective Data Analysis. Journal of Endovascular Therapy, 2005, 12, 206-214.	0.8	50
106	Outflow protection filters during percutaneous recanalization of lower extremitiesâ€™ arterial occlusions: a pilot study. European Journal of Radiology, 2005, 55, 243-249.	1.2	52
107	Intracranial aneurysms: reproduction of the surgical view using 3D-CT angiography. European Journal of Radiology, 2005, 55, 92-95.	1.2	26
108	Virtual Endoscopy in Renal Artery Stenosis: An Innovative Approach for Diagnosis and Follow-Up. Journal of Endourology, 2004, 18, 540-543.	1.1	1

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109	CT angiography with three-dimensional techniques for the early diagnosis of intracranial aneurysms. Comparison with intra-arterial DSA and the surgical findings. European Journal of Radiology, 2004, 49, 212-223.	1.2	163
110	Ureteral metallic stents: Application of virtual endoscopy for ureteral patency control. International Urology and Nephrology, 2003, 35, 327-330.	0.6	6
111	A comparative study of surface- and volume-based techniques for the automatic registration between CT and SPECT brain images. Medical Physics, 2002, 29, 201-213.	1.6	36
112	Ureteropelvic Junction Obstruction: An Innovative Approach Combining Metallic Stenting and Virtual Endoscopy. Journal of Urology, 2002, 168, 2383-2386.	0.2	26
113	Ureteropelvic Junction Obstruction: An Innovative Approach Combining Metallic Stenting and Virtual Endoscopy. Journal of Urology, 2002, , 2383-2386.	0.2	6
114	Ureteropelvic junction obstruction: an innovative approach combining metallic stenting and virtual endoscopy. Journal of Urology, 2002, 168, 2383-6; discussion 2386.	0.2	6
115	Virtual endoscopy in the diagnosis of an adult double tracheal bronchi case. European Journal of Radiology, 2001, 40, 50-53.	1.2	18