George Loudos

List of Publications by Year
in descending order

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82 papers	2,342 citations	236925 25 h-index	223800 46 g-index
83 all docs	83 docs citations	83 times ranked	3654 citing authors

#	Article	IF	Citations
1	Nonpeptidic Z360-Analogs Tagged with Trivalent Radiometals as Anti-CCK2R Cancer Theranostic Agents: A Preclinical Study. Pharmaceutics, 2022, 14, 666.	4.5	3
2	In vivo biodistribution of edelfosine-loaded lipid nanoparticles radiolabeled with Technetium-99Âm: Comparison of administration routes in mice. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 175, 1-6.	4.3	3
3	IDDRRA: A novel platform, based on Geant4â€ÐNA to quantify DNA damage by ionizing radiation. Medical Physics, 2021, 48, 2624-2636.	3.0	9
4	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. Physics in Medicine and Biology, 2021, 66, 10TR03.	3.0	82
5	Comparative Study of a Series of 99mTc(CO)3 Mannosylated Dextran Derivatives for Sentinel Lymph Node Detection. Molecules, 2021, 26, 4797.	3.8	1
6	New opportunities in the design of gamma-camera collimators for medical imaging. , 2021, , .		0
7	An in-silico method to predict and quantify the effect of gold nanoparticles in X-ray imaging. Physica Medica, 2021, 89, 160-168.	0.7	4
8	Magnetic and radio-labeled bio-hybrid scaffolds to promote and track in vivo the progress of bone regeneration. Biomaterials Science, 2021, 9, 7575-7590.	5.4	9
9	Using kinetic monte carlo simulations to design efficient magnetic nanoparticles for clinical hyperthermia. Medical Physics, 2021, , .	3.0	3
10	Optical to Planar X-ray Mouse Image Mapping in Preclinical Nuclear Medicine Using Conditional Adversarial Networks. Journal of Imaging, 2021, 7, 262.	3.0	2
11	[^{99m}Tc]Tc-DGA1, a Promising CCK₂R-Antagonist-Based Tracer for Tumor Diagnosis with Single-Photon Emission Computed Tomography. Molecular Pharmaceutics, 2020, 17, 3116-3128.	4.6	10
12	Monte Carlo Optical Simulations of a Small FoV Gamma Camera. Effect of Scintillator Thicknesses and Septa Materials. Crystals, 2019, 9, 398.	2.2	7
13	In vivo imaging techniques for bone tissue engineering. Journal of Tissue Engineering, 2019, 10, 204173141985458.	5.5	32
14	Trimodal Nanoparticle Contrast Agent for CT, MRI and SPECT Imaging: Synthesis and Characterization of Radiolabeled Core/Shell Iron Oxide@Gold Nanoparticles. Chemistry Letters, 2019, 48, 291-294.	1.3	21
15	Quantification of <scp>DNA</scp> doubleâ€strand breaks using Geant4â€<scp>DNA</scp>. Medical Physics, 2019, 46, 405-413.	3.0	23
16	A Review on Personalized Pediatric Dosimetry Applications Using Advanced Computational Tools. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 607-620.	3.7	7
17	On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. Acta Biomaterialia, 2018, 73, 458-469.	8.3	49
18	TRIMAGE: A dedicated trimodality (PET/MR/EEG) imaging tool for schizophrenia. European Psychiatry, 2018, 50, 7-20.	0.2	40

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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.	3.0	13
20	Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level. Nanomaterials, 2018, 8, 315.	4.1	20
21	In vivo biodistribution and imaging studies with a 99m Tc-radiolabeled derivative of the C-terminus of prothymosin alpha in mice bearing experimentally-induced inflammation. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 113, 188-197.	4.3	5
22	Versatile quarto stimuli nanostructure based on Trojan Horse approach for cancer therapy: Synthesis, characterization, in vitro and in vivo studies. Materials Science and Engineering C, 2017, 79, 605-612.	7.3	11
23	Abstract ID: 75 Validating Geant4-DNA for Double Strand Brakes (DSB): A preliminary study. Physica Medica, 2017, 42, 14-15.	0.7	1
24	2-(4â€²-Aminophenyl)benzothiazole Labeled with ^{99m}Tc-Cyclopentadienyl for Imaging Î²-Amyloid Plaques. ACS Medicinal Chemistry Letters, 2017, 8, 1089-1092.	2.8	22
25	Characterization of â€œÎ³-Eyeâ€• a Low-Cost Benchtop Mouse-Sized Gamma Camera for Dynamic and Static Imaging Studies. Molecular Imaging and Biology, 2017, 19, 398-407.	2.6	14
26	Gallium-68 Labeled Iron Oxide Nanoparticles Coated with 2,3-Dicarboxypropane-1,1-diphosphonic Acid as a Potential PET/MR Imaging Agent: A Proof-of-Concept Study. Contrast Media and Molecular Imaging, 2017, 2017, 1-13.	0.8	31
27	A prototype PET/SPECT/X-rays scanner dedicated for whole body small animal studies. Hellenic Journal of Nuclear Medicine, 2017, 20, 146-153.	0.3	12
28	Design and development of a hybrid preclinical PET/SPECT/X-ray system. MATEC Web of Conferences, 2016, 41, 03003.	0.2	0
29	Î»-Eye. Nuclear Medicine Communications, 2016, 37, 1001-1009.	1.1	3
30	Labeling and preliminary in vivo assessment of niobium-labeled radioactive species: A proof-of-concept study. Nuclear Medicine and Biology, 2016, 43, 280-287.	0.6	12
31	Co-administration of succinylated gelatine with a 99m Tc-bombesin analogue, effects on pharmacokinetics and tumor uptake. Nuclear Medicine and Biology, 2016, 43, 625-634.	0.6	3
32	A Theranostic Imaging prototype based on SiPM detectors for nanoparticles imaging during hyperthermia. MATEC Web of Conferences, 2016, 41, 03004.	0.2	0
33	Innovations in Small-Animal PET/MR Imaging Instrumentation. PET Clinics, 2016, 11, 105-118.	3.0	11
34	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.	3.0	21
35	Investigation of attenuation correction in SPECT using textural features, Monte Carlo simulations, and computational anthropomorphic models. Nuclear Medicine Communications, 2015, 36, 952-961.	1.1	2
36	Does the setup of Monte Carlo simulations influence the calculated properties and effect of gold nanoparticles in radiation therapy?. Physica Medica, 2015, 31, 817-821.	0.7	6

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37	In vivo anticancer evaluation of the hyperthermic efficacy of anti-human epidermal growth factor receptor-targeted PEG-based nanocarrier containing magnetic nanoparticles. International Journal of Nanomedicine, 2014, 9, 3037.	6.7	15
38	Polymeric micelles and vesicles: biological behavior evaluation using radiolabeling techniques. Pharmaceutical Development and Technology, 2014, 19, 189-193.	2.4	12
39	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.	1.0	1
40	Targeted delivery of silver nanoparticles and alisertib: in vitro and in vivo synergistic effect against glioblastoma. Nanomedicine, 2014, 9, 839-849.	3.3	138
41	Dynamic in vivo imaging of dual-triggered microspheres for sustained release applications: Synthesis, characterization and cytotoxicity study. International Journal of Pharmaceutics, 2014, 461, 54-63.	5.2	23
42	First performance tests of a digital photon counter (DPC) array coupled to a CsI(Tl) crystal matrix for potential use in SPECT. Physics in Medicine and Biology, 2014, 59, 2415-2430.	3.0	15
43	Fully Digital FPGA-Based Data Acquisition System for Dual Head PET Detectors. IEEE Transactions on Nuclear Science, 2014, 61, 2764-2770.	2.0	14
44	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. Medical Physics, 2014, 41, 064301.	3.0	332
45	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.	9.4	55
46	Hollow microspheres based on â€“ Folic acid modified â€“ Hydroxypropyl Cellulose and synthetic multi-responsive bio-copolymer for targeted cancer therapy: Controlled release of daunorubicin, in vitro and in vivo studies. Journal of Colloid and Interface Science, 2014, 435, 171-181.	9.4	29
47	Comparative in vitro stability and scintigraphic imaging for trafficking and tumor targeting of a directly and a novel 99mTc(I)(CO)3 labeled liposome. International Journal of Pharmaceutics, 2014, 465, 333-346.	5.2	12
48	Theranostics of Epitaxially Condensed Colloidal Nanocrystal Clusters, through a Soft Biomineralization Route. Chemistry of Materials, 2014, 26, 2062-2074.	6.7	46
49	PDE5 inhibition against acute renal ischemia reperfusion injury in rats: does vardenafil offer protection?. World Journal of Urology, 2013, 31, 597-602.	2.2	14
50	Radiolabeling approaches of nanoparticles with ^{99m}Tc. Contrast Media and Molecular Imaging, 2013, 8, 333-339.	0.8	54
51	Dose- and time-dependent effects of lipopolysaccharide on technetium-99-m-labeled diethylene-triamine pentaacetatic acid clearance, respiratory system mechanics and pulmonary inflammation. Experimental Biology and Medicine, 2013, 238, 209-222.	2.4	4
52	Biological evaluation of an ornithine-modified 99mTc-labeled RGD peptide as an angiogenesis imaging agent. Nuclear Medicine and Biology, 2013, 40, 262-272.	0.6	31
53	Radiochemical and radiobiological assessment of a pyridyl-S-cysteine functionalized bombesin derivative labeled with the 99mTc core. Bioorganic and Medicinal Chemistry, 2013, 21, 6699-6707.	3.0	4
54	Effect of ¹⁷⁶Lu intrinsic radioactivity on dual head PET system imaging and data acquisition, simulation, and experimental measurements. Medical Physics, 2013, 40, 112505.	3.0	12

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55	¹⁷⁶Lu effect on the minimum detectable activity limits for a dual head, LSO: Ce based, PET system. , 2013, , .		0
56	Investigation of realistic PET simulations incorporating tumor patientË^s specificity using anthropomorphic models: Creation of an oncology database. Medical Physics, 2013, 40, 112506.	3.0	26
57	Emerging technologies for image guidance and device navigation in interventional radiology. Medical Physics, 2012, 39, 5768-5781.	3.0	30
58	Preliminary Evaluation of a ^{99m}Tc Labeled Hybrid Nanoparticle Bearing a Cobalt Ferrite Core: <I>In Vivo</I> Biodistribution. Journal of Biomedical Nanotechnology, 2012, 8, 575-585.	1.1	41
59	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.	3.0	80
60	Molecular Nanomedicine Towards Cancer: 111In-Labeled Nanoparticles. Journal of Pharmaceutical Sciences, 2012, 101, 2271-2280.	3.3	211
61	Structural modifications of 99mTc-labelled bombesin-like peptides for optimizing pharmacokinetics in prostate tumor targeting. International Journal of Pharmaceutics, 2012, 430, 1-17.	5.2	28
62	Synthesis and comparative assessment of a labeled RGD peptide bearing two different 99mTc-tricarbonyl chelators for potential use as targeted radiopharmaceutical. Bioorganic and Medicinal Chemistry, 2012, 20, 2549-2557.	3.0	25
63	Quantitative assessment of crystal material and size on the performance of rotating dual head small animal PET scanners using Monte Carlo modeling. Hellenic Journal of Nuclear Medicine, 2012, 15, 33-9.	0.3	8
64	Photon dose kernels dataset for nuclear medicine dosimetry, using the GATE Monte Carlo toolkit. , 2011, , .		2
65	Current status and future perspectives of in vivo small animal imaging using radiolabeled nanoparticles. European Journal of Radiology, 2011, 78, 287-295.	2.6	48
66	Patient-specific internal radionuclide dosimetry. Nuclear Medicine Communications, 2010, 31, 97-106.	1.1	13
67	In vivo small animal imaging: Current status and future prospects. Medical Physics, 2010, 37, 6421-6442.	3.0	121
68	Design considerations for application of SiPMs in nuclear imaging. , 2010, , .		1
69	Evaluation of Re and ^{99m}Tc Complexes of 2-(4â€²-Aminophenyl)benzothiazole as Potential Breast Cancer Radiopharmaceuticals. Journal of Medicinal Chemistry, 2010, 53, 4633-4641.	6.4	92
70	Tomographie and planar evaluation of dual head small animal PET. , 2010, , .		1
71	Initial results on SiPM performance for use in medical imaging. , 2010, , .		7
72	Structural Assessment and Biological Evaluation of Two N₃S Bombesin Derivatives. Journal of Medicinal Chemistry, 2009, 52, 4234-4246.	6.4	18

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73	Spacer Site Modifications for the Improvement of the in Vitro and in Vivo Binding Properties of ^{99m}Tc-N₃S-X-Bombesin[2â˜14] Derivatives. Bioconjugate Chemistry, 2009, 20, 856-867.	3.6	29
74	A radionuclide dosimetry toolkit based on material-specific Monte Carlo dose kernels. Nuclear Medicine Communications, 2009, 30, 504-512.	1.1	22
75	A simulation study for optimizing the injected dose of clinical PET systems. , 2008, , .		0
76	Performance Evaluation of a Dedicated Camera Suitable for Dynamic Radiopharmaceuticals Evaluation in Small Animals. IEEE Transactions on Nuclear Science, 2007, 54, 454-460.	2.0	29
77	177Lu-labeled-VG76e monoclonal antibody in tumor angiogenesis: A comparative study using DOTA and DTPA chelating systems. Radiochimica Acta, 2007, 95, .	1.2	9
78	Performance evaluation of a mouse-sized camera for dynamic studies in small animals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 48-51.	1.6	7
79	GATE simulations for small animal SPECT/PET using voxelized phantoms and rotating-head detectors. , 2006, , .		12
80	Comparative in vivo evaluation of two novel 99mTc labelled bombesin derivatives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 518-521.	1.6	3
81	[99mTc]Demobesin 1, a novel potent bombesin analogue for GRP receptor-targeted tumour imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2003, 30, 247-258.	6.4	170
82	Biodistribution and scintigraphic studies of 153Sm-labeled anti-CEA monoclonal antibody for radioimmunoscintigraphy and radioimmunotherapy. Anticancer Research, 2003, 23, 2195-9.	1.1	6