

References

1. A.-H. Benali, G. Medkour Ishak-Boushaki, A.-M. Nourreddine, M. Allab and P. Papadimitroulas "A comparative evaluation of luminescence detectors: RPL-GD-301, TLD-100 and OSL-AL203:C, using Monte Carlo simulations" *Journal of Instrumentation* (2017 July) doi: [10.1088/1748-0221/12/07/P07017](https://doi.org/10.1088/1748-0221/12/07/P07017)
2. Chatzipapas, P. Papadimitroulas, G. Loudos, N. Papanikolaou, G.C. Kagadis "IDDRRA: A novel platform, based on Geant4-DNA to quantify DNA damage by ionizing radiation" *Medical Physics*, 2021 48(5):2624-2636 **DOI: [10.1002/mp.14817](https://doi.org/10.1002/mp.14817)**
3. Chatzipapas, D. Plachouris, P. Papadimitroulas, K. Mountris, J. Bert, D. Visvikis, D. Mihailidis, G.C. Kagadis "Standardization and Validation of Brachytherapy Seeds' Modelling Using GATE and GGEMS Monte Carlo Toolkits" *Cancers*, 2021, 13(21):5315 **DOI: [10.3390/cancers13215315](https://doi.org/10.3390/cancers13215315)**
4. Chatzipapas, P. Papadimitroulas, D. Emfietzoglou, S. Kalospyros, M. Hada, A. Georgakilas, G.C. Kagadis, «Ionizing Radiation and Complex DNA Damage: Quantifying the Radiobiological Damage Using Monte Carlo Simulations»*Cancers*, 2020 12(4):799 **DOI: [10.3390/cancers12040799](https://doi.org/10.3390/cancers12040799)**
5. Kostou, P. papadimitroulas, P. Papaconstadopoulos, S. Devic, J. Seuntjens, G.C. Kagadis "Size-specific dose estimations for pediatric chest, abdomen/pelvis and head CT scans with the use of GATE" *Physica Medica*, 65 181-190, 2019 **DOI: [10.1016/j.ejmp.2019.08.020](https://doi.org/10.1016/j.ejmp.2019.08.020)**
6. K.P. Chatzipapas, P. Papadimitroulas, M. Obeidat, K.A. McConnell, N. Kirby, G. Loudos, N. Papanikolaou, G.C. Kagadis "Quantification of DNA double-strand breaks using Geant4-DNA" *Medical Physics*, 46(1), 405-413, 2019 **DOI: [10.1002/mp.13290](https://doi.org/10.1002/mp.13290)**
7. M. Motiei, T. Dreifuss, T. Sadan, N. Omer, T. Blumenfeld-Katzir, E. Fragogeorgi, G. Loudos, R. Popovtzer, N. Ben-Eliezer "Trimodal Nanoparticle Contrast Agent for CT, MRI and SPECT Imaging: Synthesis and Characterization of Radiolabeled Core/Shell Iron Oxide@Gold Nanoparticles" *Chemistry Letters*, 48(3), 291-294, 2019 **DOI: [10.1246/cl.180780](https://doi.org/10.1246/cl.180780)**
8. M. Georgiou, E. Fysikopoulos, K. Mikropoulos, E. Fragogeorgi, G. Loudos "Characterization of 'γ-Eye': a Low-Cost Benchtop Mouse-Sized Gamma Camera"

for Dynamic and Static Imaging Studies." Mol Imaging Biol. (2016): 1-10,

DOI:10.1007/s11307-016-1011-4

9. M. Motiei, T. Dreifuss, T. Sadan, N. Omer, T. Blumenfeld-Katzir, E. Fragogeorgi, G. Loudos, R. Popovtzer, N. Ben-Eliezer "Trimodal Nanoparticle Contrast Agent for CT, MRI and SPECT Imaging: Synthesis and Characterization of Radiolabeled Core/Shell Iron Oxide@Gold Nanoparticles" Chemistry Letters, 48(3), 291-294, 2019 **DOI: 10.1246/cl.180780**
10. P. Papadimitroulas "Dosimetry applications in GATE Monte Carlo toolkit" Phys. Med. (2017) **DOI :10.1016/j.ejmp.2017.02.005**
11. Plachouris, I. Tzolas, I. Gatos, P. Papadimitroulas, T. Spyridonidis, D. Apostolopoulos, N. Papathanasiou, D. Visvikis, K.M. Plachouri, J.D. Hazle, G.C. Kagadis "A deep-learning-based prediction model for the biodistribution of 90 Y microspheres in liver radioembolization" Medical Physics, 2021
DOI: 10.1002/mp.15270
12. Plachouris, K. Mountris, P. Papadimitroulas, T. Spyridonidis, K. Katsanos, D. Apostolopoulos, N. Papathanasiou, J.D. Hazle, D. Visvikis, G.C. Kagadis "Clinical Evaluation of a Three-Dimensional Internal Dosimetry Technique for Liver Radioembolization with 90Y Microspheres Using Dose Voxel Kernels" Cancer Biotherapy and Radiopharmaceuticals, 2021
DOI: 10.1089/cbr.2020.4554
13. Simões, S. Sarpa, P. Papadimitroulas, B. Therrien, G. Loudos "Conjugated Photosensitizers for Imaging and PDT in Cancer Research" Journal of Medicinal Chemistry, 2020 63(23):14119-14150
DOI: 10.1021/acs.jmedchem.0c00047
14. Sarrut, M. Bała, M. Bardiès, J. Bert, M. Chauvin, K. Chatzipapas, M. Dupont, A. Etxeberste, L.M. Fanchon, S. Jan, G. Kayal, A.S. Kirov, P. Kowalski, W. Krzemien, J Labour, M. Lenz, G. Loudos, B. Mehadji, L. Ménard, C. Morel, P. Papadimitroulas, M. Rafecas, J. Salvadori, D. Seiter, M. Stockhoff, E. Testa, C. Trigila, U. Pietrzyk, S. Vandenberghe, M.A. Verdier, D. Visvikis, K. Ziemons, M. Zvolinský, E. Roncali "Advanced Monte Carlo simulations of emission tomography imaging systems with GATE" Physics in Medicine and Biology, 2021 66(10)
DOI: 10.1088/1361-6560/abf276

15. T. Kostou, P. Papadimitroulas, G. Loudos, G. Kagadis
“A preclinical simulated dataset of S-values and investigation of the impact of rescaled organ masses using the MOBY phantom.”
Phys. Med. Biol. 61 (2016): 2333–2355 , [doi:10.1088/0031-9155/61/6/2333](https://doi.org/10.1088/0031-9155/61/6/2333).
16. E. Fysikopoulos, M. Georgiou, G. Loudos
“Evaluation of Hamamatsu H13974 Large Sensitive Area Flat Panel PMT Array for Use in Small Animal Imaging and Scintimammography”
IEEE Transactions on Radiation and Plasma Medical Sciences 2(3), 170-176, 2018
DOI: [10.1109/TRPMS.2018.2797323](https://doi.org/10.1109/TRPMS.2018.2797323)
17. A. Kostopoulou, K. Brintakis, E. Fragogeorgi, A. Anthousi, L. Manna, S. Begin-Colin, C. Billotey, A. Ranella, G. Loudos, I. Athanassakis, A. Lappas
“Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level”
Nanomaterials, 8(5), 315, 2018
DOI: [10.3390/nano8050315](https://doi.org/10.3390/nano8050315)
18. A. Adamiano, M. Iafisco, M. Sandri, M. Basini, P. Arosio, T. Canu, G. Sitia, A. Esposito, V. Iannotti, G. Ausanio, E. Fragogeorgi, M. Rouchota, G. Loudos, A. Lascialfari, A. Tampieri, A.
“On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging”
Acta Biomaterialia, Vol. 73, 458-469, 2018
DOI: [10.1016/j.actbio.2018.04.040](https://doi.org/10.1016/j.actbio.2018.04.040)
19. M. Georgiou, E. Fysikopoulos, K. Mikropoulos, E. Fragogeorgi, G. Loudos
“Characterization of ‘γ-Eye’: a Low-Cost Benchtop Mouse-Sized Gamma Camera for Dynamic and Static Imaging Studies.”
Mol Imaging Biol. (2016): 1-10, [doi:10.1007/s11307-016-1011-4](https://doi.org/10.1007/s11307-016-1011-4)
20. T. Kostou, P. Papadimitroulas, G. Loudos, G. Kagadis
“A preclinical simulated dataset of S-values and investigation of the impact of rescaled organ masses using the MOBY phantom.”
Phys. Med. Biol. 61 (2016): 2333–2355 , [doi:10.1088/0031-9155/61/6/2333](https://doi.org/10.1088/0031-9155/61/6/2333).