

Publication List
Development of analytical dosimetry models

1. **Polymer gel dosimetry for the TG-43 dosimetric characterization of a new ^{125}I interstitial brachytherapy seed** Papagiannis P, Pantelis E, Georgiou E, Karaiskos P, Angelopoulos A, Sakelliou L, Stiliaris S, Baltas D and Seimenis I, *Physics in Medicine and Biology*, Volume 51, 2006 (in print).
2. **An evaluation of the TSE MR sequence for time efficient data acquisition in polymer gel dosimetry of applications involving high doses and steep dose gradients**, Baras P, Seimenis I, Sandilos P, Vlachos L, Bieganski T, Georgiou E, Pantelis E, Papagiannis P and Sakelliou L, , *Medical Physics*, Volume 32, Issue 11, Nov. 2005, Pages 3339-3345. [Abstract](#)
3. **Polymer gel dosimetry close to an ^{125}I interstitial brachytherapy seed**, Pantelis E, Lympelopoulou G, Papagiannis P, Sakelliou L, Stiliaris E, Sandilos P, Seimenis I, Kozicki M and Rosiak J M, , *Physics in Medicine and Biology*, Volume 50, issue 18, Sep. 2005, pages 4371 – 4384. [Abstract](#)
4. **Three-dimensional dose verification of the clinical application of gamma knife stereotactic radiosurgery using polymer gel and MRI**, Papagiannis P, Karaiskos P, Kozicki M, Rosiak J M, Sakelliou L, Sandilos P, Seimenis I and Torrens M, *Physics in Medicine and Biology*, Volume 50, issue 9, Apr. 2005, pages 1979 – 1990. [Abstract](#)
5. **Dose verification of single shot gamma knife applications using VIPAR polymer gel and MRI**, Karaiskos P, Petrokokkinos L, Tatsis E, Angelopoulos A, Baras P, Kozicki M, Papagiannis P, Rosiak J M, Sakelliou L, Sandilos P and Vlachos L, *Physics in Medicine and Biology*, Volume 50, issue 6, Mar. 2005, pages 1235–1250. [Abstract](#)
6. **Polymer gel water equivalence and relative energy response with emphasis on low photon energy dosimetry in brachytherapy**, Pantelis E, Karlis A K, Kozicki M, Papagiannis P, Sakelliou L and Rosiak J M, *Physics in Medicine and Biology*, Volume 49, issue 15, Aug. 2004, pages 3495 – 3514. Included in IOP Select <http://Select.iop.org> and Highlights of 2004 www.iop.org/journals/pmb/highlights. [Abstract](#)
7. **Dose verification in clinical IMRT prostate incidents**, Sandilos P, Angelopoulos A, Baras P, Dardoufas K, Karaiskos P, Kipouros P, Kozicki M, Rosiak JM, Sakelliou L, Seimenis I and Vlahos L, *International Journal of Radiation Oncology*Biophysics*, Volume 59, Issue 5, Aug. 2004, Pages 1540-1547. [Abstract](#)

8. **3D dose verification in ^{192}Ir HDR prostate monotherapy using polymer gels and MRI**, Kipouros P, Papagiannis P, Sakelliou L, Karaikos P, Sandilos P, Baras P, Seimenis I, Kozicki M, Anagnostopoulos G and Baltas D, *Medical Physics*, Volume 30, Issue 8, Aug. 2003, Pages 2031-2039. [Abstract](#)
9. **Wide dynamic dose range of VIPAR polymer gel dosimetry**, Kipouros P, Pappas E, Baras P, Hatzipanayoti D, Karaikos P, Sakelliou L, Sandilos P, Seimenis I, *Physics in Medicine and Biology*, Volume 46, Issue 8, Aug. 2001, Pages 2143-2159. [Abstract](#)
10. **Dosimetry close to an Ir HDR source using N-vinylpyrrolidone based polymer gels and magnetic resonance imaging**, Papagiannis P, Pappas E, Kipouros P, Angelopoulos A, Sakelliou L, Baras P, Karaikos P, Seimenis I, Sandilos P, Baltas D, *Medical Physics*, Volume 28, Issue 7, Jul. 2001, Pages 1416-1426. [Abstract](#)
11. **Narrow stereotactic beam profile measurements using N-vinylpyrrolidone based polymer gels and magnetic resonance imaging**, Pappas E, Seimenis I, Angelopoulos A, Georgolopoulou P, Kamariotaki-Paparigopoulou M, Maris T, Sakelliou L, Sandilos P, Vlachos L, *Physics in Medicine and Biology*, Volume 46, Issue 3, Mar. 2001, Pages 783-797. [Abstract](#)