

Maria Evelina Fantacci

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

2,632
citations

331670

21
h-index

223800

46
g-index

121
all docs

121
docs citations

121
times ranked

2699
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Quantification of pulmonary involvement in COVID-19 pneumonia by means of a cascade of two U-nets: training and assessment on multiple datasets using different annotation criteria. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 229-237. | 2.8 | 9 |
| 2 | Convolutional Neural Networks for Breast Density Classification: Performance and Explanation Insights. Applied Sciences (Switzerland), 2022, 12, 148. | 2.5 | 8 |
| 3 | Technical evaluation of image quality in synthetic mammograms obtained from 15° and 40° digital breast tomosynthesis in a commercial system: a quantitative comparison. Physical and Engineering Sciences in Medicine, 2021, 44, 23-35. | 2.4 | 4 |
| 4 | A comprehensive assessment of physical image quality of five different scanners for head CT imaging as clinically used at a single hospital centre – A phantom study. PLoS ONE, 2021, 16, e0245374. | 2.5 | 6 |
| 5 | Normalized glandular dose coefficients for digital breast tomosynthesis systems with a homogeneous breast model. Physics in Medicine and Biology, 2021, 66, 065024. | 3.0 | 8 |
| 6 | Strategies to develop radiomics and machine learning models for lung cancer stage and histology prediction using small data samples. Physica Medica, 2021, 90, 13-22. | 0.7 | 32 |
| 7 | Dealing with confounders and outliers in classification medical studies: The Autism Spectrum Disorders case study. Artificial Intelligence in Medicine, 2020, 108, 101926. | 6.5 | 20 |
| 8 | A cloud-based computer-aided detection system improves identification of lung nodules on computed tomography scans of patients with extra-thoracic malignancies. European Radiology, 2019, 29, 144-152. | 4.5 | 24 |
| 9 | MR Compatible Power Supply Module for PET Detectors of an Integrated PET/MR System. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 454-464. | 3.7 | 2 |
| 10 | Evaluation of the intra- and inter-method agreement of brain MRI segmentation software packages: A comparison between SPM12 and FreeSurfer v6.0. Physica Medica, 2019, 64, 261-272. | 0.7 | 30 |
| 11 | The potential contribution of artificial intelligence to dose reduction in diagnostic imaging of lung cancer. Journal of Medical Artificial Intelligence, 2019, 2, 6-6. | 1.1 | 1 |
| 12 | MRIndex: A tool for evaluating muscle involvement in neuromuscular diseases from MRI images. , 2019, , . | | 3 |
| 13 | Comprehensive assessment of image quality in synthetic and digital mammography: a quantitative comparison. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 1141-1152. | 1.3 | 8 |
| 14 | Residual Convolutional Neural Networks to Automatically Extract Significant Breast Density Features. Communications in Computer and Information Science, 2019, , 28-35. | 0.5 | 3 |
| 15 | Radiomic and Dosiomic Profiling of Paediatric Medulloblastoma Tumours Treated with Intensity Modulated Radiation Therapy. Communications in Computer and Information Science, 2019, , 56-64. | 0.5 | 2 |
| 16 | A new method to evaluate the average absorbed dose in mammography and breast tomosynthesis. , 2018, , . | | 1 |
| 17 | InGene: a multimodal approach to the genotype-phenotype association in neuromuscular diseases. , 2018, , . | | 1 |
| 18 | Computed tomography imaging with the Adaptive Statistical Iterative Reconstruction (ASIR) algorithm: dependence of image quality on the blending level of reconstruction. Australasian Physical and Engineering Sciences in Medicine, 2018, 41, 463-473. | 1.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Evaluation of Dosimetric Properties in Full Field Digital Mammography (FFDM). , 2018, , . | | 1 |
| 20 | <scp>H</scp>ippocampal subfields at ultra high field MRI: <scp>A</scp>n overview of segmentation and measurement methods. Hippocampus, 2017, 27, 481-494. | 1.9 | 51 |
| 21 | ARIANNA: A research environment for neuroimaging studies in autism spectrum disorders. Computers in Biology and Medicine, 2017, 87, 1-7. | 7.0 | 7 |
| 22 | A Degenerate Birdcage with Integrated Tx/Rx Switches and Butler Matrix for the Human Limbs at 7ÅT. Applied Magnetic Resonance, 2017, 48, 307-326. | 1.2 | 9 |
| 23 | Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: The LUNA16 challenge. Medical Image Analysis, 2017, 42, 1-13. | 11.6 | 710 |
| 24 | Computer-aided detection systems to improve lung cancer early diagnosis: state-of-the-art and challenges. Journal of Physics: Conference Series, 2017, 841, 012013. | 0.4 | 6 |
| 25 | Average absorbed breast dose in mammography: a new possible dose index matching the requirements of the European Directive 2013/59/EURATOM. European Radiology Experimental, 2017, 1, 28. | 3.4 | 8 |
| 26 | Evaluation of the Imaging Properties of a CT Scanner with the Adaptive Statistical Iterative Reconstruction Algorithm - Noise, Contrast and Spatial Resolution Properties of CT Images Reconstructed at Different Blending Levels. , 2017, , . | | 0 |
| 27 | 90P: Clinical validation of the M5L lung computer-assisted detection system. Journal of Thoracic Oncology, 2016, 11, S95. | 1.1 | 0 |
| 28 | Non-invasive assessment of Neuromuscular Disorders by 7 tesla Magnetic Resonance Imaging and Spectroscopy: Dedicated radio-frequency coil development. , 2015, , . | | 1 |
| 29 | Large scale validation of the M5L lung CAD on heterogeneous CT datasets. Medical Physics, 2015, 42, 1477-1489. | 3.0 | 91 |
| 30 | Automated hippocampus segmentation with the Channeler Ant Model: Results on different datasets. , 2015, , . | | 0 |
| 31 | A non-invasive method for a quantitative evaluation of muscle involvement in MRI of Neuromuscular Diseases. , 2015, , . | | 2 |
| 32 | Predictive Models Based on Support Vector Machines: Wholeâ€Brain versus Regional Analysis of Structural MRI in the Alzheimer's Disease. Journal of Neuroimaging, 2015, 25, 552-563. | 2.0 | 42 |
| 33 | Quantitative Scoring of Muscle Involvement in MRI of Neuromuscular Diseases. , 2015, , . | | 1 |
| 34 | Chest CT automatic analysis for lung nodules detection implemented on a GPU computing system. , 2012, , . | | 1 |
| 35 | Fully automated hippocampus segmentation with virtual ant colonies. , 2012, , . | | 5 |
| 36 | On-demand lung CT analysis with the M5L-CAD via the WIDEN front-end web interface and an OpenNebula-based cloud back-end. , 2012, , . | | 1 |

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|----|--|------|-----------|
| 37 | Combination of computer-aided detection algorithms for automatic lung nodule identification. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 455-464. | 2.8 | 46 |
| 38 | Approaches to juxta-pleural nodule detection in CT images within the MAGIC-5 Collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S103-S106. | 1.6 | 11 |
| 39 | Algorithms for automatic detection of lung nodules in CT scans. , 2011, , . | | 4 |
| 40 | Comparing and combining algorithms for computer-aided detection of pulmonary nodules in computed tomography scans: The ANODE09 study. Medical Image Analysis, 2010, 14, 707-722. | 11.6 | 245 |
| 41 | 3-D object segmentation using ant colonies. Pattern Recognition, 2010, 43, 1476-1490. | 8.1 | 24 |
| 42 | A voxel-based neural approach (VBNA) to identify lung nodules in the ANODE09 study. , 2009, , . | | 11 |
| 43 | Characterization of a mammographic system based on single photon counting pixel arrays coupled to GaAs x-ray detectors. Medical Physics, 2009, 36, 1330-1339. | 3.0 | 12 |
| 44 | Pleural nodule identification in low-dose and thin-slice lung computed tomography. Computers in Biology and Medicine, 2009, 39, 1137-1144. | 7.0 | 36 |
| 45 | A novel multithreshold method for nodule detection in lung CT. Medical Physics, 2009, 36, 3607-3618. | 3.0 | 73 |
| 46 | Automatic analysis of medial temporal lobe atrophy from structural MRIs for the early assessment of Alzheimer disease. Medical Physics, 2009, 36, 3737-3747. | 3.0 | 39 |
| 47 | MAGIC-5: an Italian mammographic database of digitised images for research. Radiologia Medica, 2008, 113, 477-485. | 7.7 | 22 |
| 48 | Lung nodule detection in low-dose and thin-slice computed tomography. Computers in Biology and Medicine, 2008, 38, 525-534. | 7.0 | 80 |
| 49 | Dental radiology dosimetric data as routinely collected in an Italian hospital. Radiation Protection Dosimetry, 2008, 129, 227-230. | 0.8 | 2 |
| 50 | A pixel detector-based single photon-counting system as fast spectrometer for diagnostic x-ray beams. Radiation Protection Dosimetry, 2008, 129, 119-122. | 0.8 | 5 |
| 51 | Automatic Localization of the Hippocampal Region in MR Images to Asses Early Diagnosis of Alzheimer's Disease in MCI Patients. , 2008, , . | | 1 |
| 52 | Multi-scale analysis of lung computed tomography images. Journal of Instrumentation, 2007, 2, P09007-P09007. | 1.2 | 8 |
| 53 | An automated system for lung nodule detection in low-dose computed tomography. , 2007, , . | | 15 |
| 54 | Characterization of a Single Photon Counting Imaging System by Transfer Function Analysis. IEEE Transactions on Nuclear Science, 2007, 54, 245-251. | 2.0 | 3 |

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|----|---|-----|-----------|
| 55 | Characterization of mammographic masses using a gradient-based segmentation algorithm and a neural classifier. <i>Computers in Biology and Medicine</i> , 2007, 37, 1479-1491. | 7.0 | 73 |
| 56 | A GaAs pixel detectors-based digital mammographic system: Performances and imaging tests results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 576, 154-159. | 1.6 | 9 |
| 57 | Distributed medical images analysis on a Grid infrastructure. <i>Future Generation Computer Systems</i> , 2007, 23, 475-484. | 7.5 | 25 |
| 58 | Mammogram Segmentation by Contour Searching and Mass Lesions Classification With Neural Network. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 2827-2833. | 2.0 | 86 |
| 59 | Lung Nodule Detection in Screening Computed Tomography. , 2006, , . | | 10 |
| 60 | A scalable computer-aided detection system for microcalcification cluster identification in a pan-European distributed database of mammograms. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 601-605. | 1.6 | 6 |
| 61 | Preliminary study to optimize the irradiation condition for future application in small animal CT. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 563, 142-145. | 1.6 | 2 |
| 62 | An automatic system to discriminate malignant from benign massive lesions on mammograms. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 596-600. | 1.6 | 15 |
| 63 | A completely automated CAD system for mass detection in a large mammographic database. <i>Medical Physics</i> , 2006, 33, 3066-3075. | 3.0 | 92 |
| 64 | Comparison of two portable solid state detectors with an improved collimation and alignment device for mammographic x-ray spectroscopy. <i>Medical Physics</i> , 2006, 33, 3469-3477. | 3.0 | 30 |
| 65 | Performances of different digital mammography imaging systems: Evaluation and comparison. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 546, 14-18. | 1.6 | 7 |
| 66 | Performance of an imaging system based on silicon pixel detectors of different thickness. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 1989-1993. | 2.0 | 3 |
| 67 | Preprocessing methods for nodule detection in lung CT. <i>International Congress Series</i> , 2005, 1281, 1099-1103. | 0.2 | 9 |
| 68 | A study on two different CAD systems for mammography as an aid to radiological diagnosis in the search of microcalcification clusters. <i>European Journal of Radiology</i> , 2005, 55, 264-269. | 2.6 | 8 |
| 69 | An example of technological transfer to industry: the "MI" project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 376-379. | 1.6 | 7 |
| 70 | A prototype for a mammographic head and related developments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 382-385. | 1.6 | 14 |
| 71 | GPCALMA: a grid approach to mammographic screening. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 394-398. | 1.6 | 1 |
| 72 | Characterization of Si pixel detectors of different thickness. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 418-420. | 1.6 | 8 |

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|----|--|-----|-----------|
| 73 | A Medipix2-based imaging system for digital mammography with silicon pixel detectors. IEEE Transactions on Nuclear Science, 2004, 51, 3081-3085. | 2.0 | 17 |
| 74 | Semiconductor pixel detectors for digital mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 509, 283-289. | 1.6 | 10 |
| 75 | GPCALMA, a mammographic CAD in a GRID connection. International Congress Series, 2003, 1256, 944-949. | 0.2 | 4 |
| 76 | Full-field images of mammographic phantoms obtained with a single photon counting system. , 2003, , . | | 0 |
| 77 | Comparison between different monitors to be used in the reading of digital mammographic images. , 2003, , . | | 2 |
| 78 | Diagnostic performance of radiologists with and without different CAD systems for mammography. , 2003, 5034, 51. | | 6 |
| 79 | Experimental study of Compton scattering reduction in digital mammographic imaging. IEEE Transactions on Nuclear Science, 2002, 49, 2361-2365. | 2.0 | 13 |
| 80 | Search of microcalcification clusters with the CALMA CAD station. , 2002, , . | | 10 |
| 81 | Experimental test of a new technique of background suppression in digital mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 478, 95-97. | 1.6 | 2 |
| 82 | Purification, cloning and characterisation of odorant- and pheromone-binding proteins from pig nasal epithelium. Cellular and Molecular Life Sciences, 2001, 58, 823-834. | 5.4 | 34 |
| 83 | Investigation on semi-insulating GaAs detectors using laser-induced current pulses. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 458, 158-163. | 1.6 | 8 |
| 84 | Test of a GaAs-based pixel device for digital mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 460, 50-54. | 1.6 | 9 |
| 85 | The CALMA project: a CAD tool in breast radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 460, 107-112. | 1.6 | 12 |
| 86 | Detection performance of SI GaAs detectors for nuclear medicine. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 460, 123-126. | 1.6 | 6 |
| 87 | Evaluation of the imaging properties of a direct detection single photon counting based system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 389-392. | 1.6 | 7 |
| 88 | Performance of a medical imaging system for photons in the 60â€“140 keV energy range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 422-424. | 1.6 | 8 |
| 89 | The CALMA project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 428-429. | 1.6 | 7 |
| 90 | Spectroscopic and imaging capabilities of a pixellated photon counting system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 74-78. | 1.6 | 8 |

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| 91 | Comparison of imaging properties of several digital radiographic systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 95-98. | 1.6 | 5 |
| 92 | Simulated and experimental spectroscopic performance of GaAs X-ray pixel detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 188-193. | 1.6 | 6 |
| 93 | Low contrast imaging with a GaAs pixel digital detector. IEEE Transactions on Nuclear Science, 2000, 47, 1478-1482. | 2.0 | 21 |
| 94 | MEDIPIX: a VLSI chip for a GaAs pixel detector for digital radiology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 201-205. | 1.6 | 31 |
| 95 | GaAs pixel radiation detector as an autoradiography tool for genetic studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 242-246. | 1.6 | 19 |
| 96 | Spectroscopic performance of semi-insulating GaAs detectors for digital radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 247-251. | 1.6 | 16 |
| 97 | Radiation damage tests of GaAs HV switches for MSGCs bias control. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 426, 216-220. | 1.6 | 0 |
| 98 | GaAs detector optimization for different medical imaging applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 434, 14-17. | 1.6 | 10 |
| 99 | Irradiation of optically activated Si-GaAs high-voltage switches with low and high energy protons. IEEE Transactions on Nuclear Science, 1999, 46, 121-125. | 2.0 | 1 |
| 100 | Si-GaAs detectors with epitaxial junction. IEEE Transactions on Nuclear Science, 1999, 46, 171-175. | 2.0 | 2 |
| 101 | Optically activated planar GaAs switches for DC applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 418, 434-439. | 1.6 | 3 |
| 102 | Development of semi-insulating GaAs detectors for digital radiography. Nuclear Physics, Section B, Proceedings Supplements, 1998, 61, 633-637. | 0.4 | 9 |
| 103 | Experimental results on GaAs switching devices for HEP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 26-28. | 1.6 | 0 |
| 104 | GaAs devices with vertical and planar structures for optically activated high-voltage switching. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 417, 124-130. | 1.6 | 3 |
| 105 | Use of silicon and GaAs pixel detectors for digital autoradiography. IEEE Transactions on Nuclear Science, 1997, 44, 929-933. | 2.0 | 18 |
| 106 | A study of the trap influence on the performance of semi-insulating GaAs detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 395, 349-354. | 1.6 | 9 |
| 107 | Gallium arsenide pixel detectors for medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 395, 148-151. | 1.6 | 20 |
| 108 | A study of the electrical and charge-collection properties of semi-insulating GaAs detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 66-69. | 1.6 | 5 |

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| 109 | Experimental study of LEC GaAs detectors for X-ray digital radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 380, 410-413. | 1.6 | 13 |
| 110 | Autoradiography with silicon strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 381, 527-530. | 1.6 | 17 |
| 111 | Some new results on semi-insulating GaAs detectors for low energy X-rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 355, 425-427. | 1.6 | 16 |
| 112 | X-ray imaging using a pixel GaAs detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 362, 547-550. | 1.6 | 7 |
| 113 | Electrical characterization and detection performances of various semi-insulating GaAs crystals for low energy gamma-rays. IEEE Transactions on Nuclear Science, 1995, 42, 254-257. | 2.0 | 8 |
| 114 | Comparison of different GaAs detectors for X-ray digital radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 338, 549-555. | 1.6 | 14 |
| 115 | Electrical characterization and detector performances of a LPE GaAs detector for X-ray digital radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 346, 372-378. | 1.6 | 10 |
| 116 | X-ray imaging test of a μ -strip silicon detector with a transputer DAQ. IEEE Transactions on Nuclear Science, 1994, 41, 1522-1525. | 2.0 | 6 |
| 117 | Digital imaging in radiology: preliminary results obtained with a high spatial resolution 2D silicon detector. IEEE Transactions on Nuclear Science, 1993, 40, 987-991. | 2.0 | 14 |
| 118 | Characterization of the response of a double side μ -strip silicon detector to X-rays in the diagnostic energy range. IEEE Transactions on Nuclear Science, 1993, 40, 983-986. | 2.0 | 12 |
| 119 | First X-ray images with a double-sided microstrips silicon crystal. A novel detector for digital radiography?. Physics in Medicine and Biology, 1992, 37, 1167-1170. | 3.0 | 22 |
| 120 | Study of GaAs detectors characteristics for medical imaging. , 0, , . | | 2 |
| 121 | Characterization Of A Single Photon Counting Imaging System By The Transfer Functions Analysis. , 0, , . | | 0 |