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Education :

Ph.D Radiological Engineering, Georgia Institute of Technology, USA

Career Experience :

Professor, Dep. of Mechanical Engineering, Chung Cheng Inst. of Tech., National Defense University

Courses Taught :

Optimization, robust designation, radiation safety, atomic physics

Professional Fields :

Radiological engineering, radiological science, health physics, robust designation

Research Interests :

Radiological engineering, radiological science, health physics, robust designation

Representative Publication in 5 Years :

2016

1. Li-Feng Chen, Hsien-Chun Tseng, **Lung-Kwang Pan**, Jye-Bin Lin, Han-Sheng Huang, Wei-Hou Lai, Chien-Yi Chen, 2016, Evaluating environmental radiations at Axesse LINAC undergoing NPC treatment of VMAT, Computer Assisted Surgery, <http://dx.doi.org/10.1080/24699322.2016.1240308>
2. Samrit Kittipayak, Lung -Fa Pan, Fu-Tsai Chiang, **Lung -Kwang Pan**, Cheng -Hsun Lin, 2017, The Optimization of the Single Photon Emission Computed Tomography Image Quality via Taguchi Analysis: A Feasibility Study of a V-Shaped Phantom, J. Medical Imaging and Health Informatics, 7(1), pp143-148
3. Fu Tsai Chiang, Kuang Hua Chu, Ching Yuan Chen, Chien Yi Chen, **Lung Kwang Pan**, 2016, Taguchi's analysis to optimize descending aortography for patent ductus arteriosus, with clinical verification, Hellenic journal of nuclear medicine, 19(2), pp118-123.
4. Lung Fa Pan, Samrit Kittipayak, Shan Lin Yen, **Lung Kwang Pan**, Cheng Hsun Lin, 2016, Evaluation of the occupational X-rays dose of the medical staff in a cardiac catheterization laboratory using an acrylic phantom and semiconductor dosimeter, Hellenic journal of nuclear medicine, 19(2), pp140-146
5. Fu-Tsai Chiang, Pei-Jung Li, Shih-Ping Chung, Lung Fa Pan, **Lung-Kwang Pan**, 2016, Quantitative analysis of multiple biokinetic models using a dynamic water phantom: a feasibility study, Bioengineered 7(5), pp304-313
6. Ching-Yuan Chen, Lung-Fa Pan, Fu-Tsai Chiang, Da Ming Yeh, **Lung-Kwang Pan**, 2016, Optimizing quality of digital mammographic imaging using Taguchi analysis with an ACR accreditation phantom, Bioengineered 7(4), pp226-234.
7. Da-Ming Yeh, Hui-Yu Tsai, Yen-Sheng Tyan, Yu-Cheng Chang, **Lung-Kwang Pan**, Tou-Rong Chen, 2016, The population effective dose of medical computed tomography examinations in Taiwan for

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8. **Lung Kwang PAN**, Da Ming YEH, 2016, Optimizing Digital Mammographic Image Quality via Taguchi-based Grey Analysis: An ACR Accreditation Phantom Study, ICNC-FSKD, DOI: 10.1109/FSKD.2016.7603321

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9. Cheng-Kai Huang, Jay Wu, Kai-Yuan Cheng, **Lung-Kwang Pan**, 2015, Optimization of Imaging parameters for SPECT scans of [99mTc]TRODAT-1 Using Taguchi Analysis, PLOS ONE 10(3) e0113817, DOI:10.1371 /journal.pone.0113817
10. Hsien-Chun Tsenga, **Lung-Kang Pan**, Hsin-Yu Chen, Wen-Shan Liue, Chang-Chieh Hsueh, Chien-Yi CHEN, 2015, In vivo evaluating skin doses for lung cancer patients undergoing volumetric modulated arc therapy treatment, Bio-Medical Materials and Engineering, 26, pp s1677-1683
11. Lung Fa PAN, Erdenetsetseg ERDENE, **Lung Kwang PAN**, 2015, Optimization of the imaging quality of 64-slice CT acquisition protocol using Taguchi analysis: a phantom study, Bio-Medical Materials and Engineering, 26, pp s1651-1658
12. Lung Fa PAN, Otgonbaatar DAVAA, Chien Yi CHEN, **Lung Kwang PAN**, 2015, Quantitative evaluation of contrast-induced-nephropathy in vascular post-angiography patients: feasibility study of a semi-empirical model, Bio-Medical Materials and Engineering 26, pp s851-860
13. Da Ming YEH, Tzu Hwei WANG, **Lung Kwang PAN**, 2015, Evaluating the quality characteristics of TLD-100T and TLD-100H exposed to diagnostic X-rays and 64 multislice CT using Taguchi's quality loss function, Radiation Measurement, 80, pp17-22
14. Tzu Hwei WANG, Samrit Kittipayak, Yu Ting LIN, Cheng Hsun LIN, **Lung Kwang PAN**, 2015, Quantification the in Vitro radiosensitivity of mung bean sprout elongation to 6MV X-ray: a revised target model study, PLOS ONE 10(6): e0128384, DOI:10.1371 /journal.pone.0128384

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15. Da Ming YEH, Pai Jung CHANG, **Lung Kwang PAN**, 2013, The optimum Ga-67-citrate gamma camera imaging quality factors as first calculated and shown by the Taguchi's analysis, Hell J Nucl Med, 16(1), pp25-32

2012

16. Chia Chun Hsu, Pei Yu Chen, Chang Chi Chen, **Lung Kwang Pan**, 2012, Measurement of gastric emptying time of solids in healthy subjects using scintigraphic method: a revised technique, Radiation protection dosimetry, 150, pp405-414
17. Lun-Hui LEE, Hai-Feng SHER I-Hsin LU, **Lung-Kwang PAN**, 2012, Evaluate the radioactivity along the central thimble hole of a decommissioned heavy water research reactor using TLD approach, Applied Radiation and Isotopes. 70, pp720-725
18. Kuang Hua CHU, Yu Ting LIN, Chia Chun HSU, Chien Yi CHEN, **Lung Kwang PAN**, 2012, Evaluation of effective dose for a patient under Ga-67 nuclear examination using TLD technique: a phantom study, J. Radiation Research, 53(6), pp989-998

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22. Chia Chun Hsu, Chien Yi Chen, **Lung Kwang Pan**, 2011, Quantitative analysis of iodine thyroid and gastrointestinal tract biokinetic models using MATLAB, Applications of MATLAB in science and engineering, Ch. 23, pp469-484, ISBN 979-953-307-124-3

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1985-2009

25. Chien Chung, **Lung Kwang Pan**, 1985, cumulative fission product yields of Fast neutron fission of Th-232, radiochimica acta, 38, pp173-179
26. C Chung, **LK Pan**, CS Yeh, CM Tsai, 1986, ocean transport of low level Radioactive waste off Taiwan, nucl. Waste management, 6, pp183-191
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28. **Lung Kwang Pan**, 1990, destructive gamma ray analysis of fuel rods from the Taiwan research reactor, nuclear tech., 89, pp116-125
29. CS Tsao, **LK Pan**, 1993, reevaluation of the burnup of spent fuel pins by the activity ratio of Cs-134/Cs-137, appl. Radiat. Iso., 44, 7, pp1041-1046
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