

## **Articole publicate (selectie)**

1. *Effective z evaluation using monoenergetic gamma rays and neural networks*; G. V. Turturica V. Iancu, A. Pappalardo, P.-A. Söderström, E. Açıksöz, D. Balabanski, L. Capponi, P. Constantin, V. Fugaru, L. Guardo, M. Ilie, S. Ilie, M. Iovea, D. Lattuada, D. Nichita, T. Petrușe, A. Spătaru, and C. A. Ur; European Physical Journal Plus 135 (2), 1-13 (2019)

Articol co-publicat cu cercetatori din firma ACCENT 2000

2. *Mn<sup>2+</sup> EPR spectroscopy for the provenance study of natural carbonates*; O. G. Duluiu, V. Bercu, D.C. Negut; Experimental Methods in the Physical Sciences, Volume 50, 2019, Pages 1-19

3. *A new approach: Synthesis of cobalt aluminate nanoparticles using tamarind fruit extract*; I. Mindru, D. G., L. Patron, A. Ianculescu, V.-A. Surdu, D. C Culita, S. Preda, C.-D. Negut, O. Oprea; Materials Science and Engineering B, Volume 246, July 2019, Pages 42-48

4. *Comparative investigation of gamma radiation effects on Long Period Gratings and optical power in different optical fibers*; F. Esposito, A. Stancalie, D. Negut, S. Campopiano, D. G. Sporea, A. Iadicicco; Journal Of Lightwave Technology, Vol. 37, No. 18, September 15, 2019

5. *Physicochemical study for characterization of lyophilized collagens irradiated with gamma radiation and for optimization of medical device manufacturing process*; V. Moise, S. Vasilca, A. Baltac, C. Pintilie, M. Virgolici, M. Cutrubinis, C. Kamerzan, D. Dragan, M. Ene, F. Albota, S. Maier; Radiation Physics and Chemistry, Volume 170, May 2020, 108658

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7. *Current status and highlights of the ELI-NP research program*; K. A. Tanaka, K. Spohr, D. Balabanski, S. Balascuta, L. Capponi, M. Cernaiyanu, M. Cuciuc, A. Cucoanes, I. Dancus, A. Dhal, B. Diaconescu, D. Doria, P. Ghenuche, D. Ghita, S. Kisyov, V. Nastasa, J. Ong, F. Rotaru, D. Sangwan, P.-A. Soderstrom, D. Stutman, G. Suliman, O.

Tesileanu, L. Tudor, N. Tsoneva, C. A. Ur, D. Ursescu, N. V. Zamfir; Matter and Radiation at Extremes 5, 024402, (03/2020)

8. *Electromagnetic character of the competitive  $\gamma\gamma/\gamma$ -decay from  $^{137m}\text{Ba}$* ; P.-A. Soderstrom, L. Capponi, E. Aciksoz, T. Otsuka, N. Tsoneva, Y. Tsunoda, D. Balabanski, N. Pietralla, G. Guardo, D. Lattuada, H. Lenske, C. Matei, D. Nichita, A. Pappalardo, T. Petrus; Nature Communications volume 11, Article number: 3242, (06/2020)
9. *Single- versus two-parameter Fisher information in quantum interferometry*; S. Ataman; Physical Review A 102, 013704, (07/2020)
10. *Gamma Radiation-Induced Effects over an Optical Fiber Laser: Towards New Sensing Applications*; RA Perez-Herrera, A Stancalie, P Cabezudo, D Sporea, D Neguț, M. Lopez-Amo; Sensors 2020, 20(11), 3017