

## Lista de publicații

1. Streza M, **Pop M. N**, Kovacs K, Simon V, Longuemart S, Dadarlat D, 2009, *Thermal effusivity investigations of solid materials by using the thermal-wave-resonator-cavity (TWRC) configuration. Theory and mathematical simulations*, Laser Physics, vol. 19, nr. 6, 1340 - 44.
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3. Dadarlat D, Streza M, **Pop M. N**, Tosa V, 2009, *On the sensitivity of FPPE – TWRC method in thermal effusivity investigations of solids*, Journal of Physics: Conference Series 182, 012023.
4. Dadarlat D, Streza M, **Pop M. N**, Delenclos S, Longuemart S, Tosa V, Hadj Sahraoui A, 2010, *Photopyroelectric calorimetry of solids:FPPE–TWRC method*, *J Therm. Anal. Calorim.*101:397–402.
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6. Dadarlat D, **Pop M. N**, Streza M, Longuemart S, Depriester M, Hadj Sahraoui A, Simon V, 2010, *Combined FPPE–PTR Calorimetry Involving TWRC Technique. Theory and mathematical simulations*, *Int J Thermophys*, 31:2275–82.
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11. Streza M, Dadarlat D, **Pop M. N**, Prejmerean C, Prodan D, Depriester M, Longuemart S, Hadj Sahraoui A, 2010, *Photothermal radiometry (PTR) investigation of dynamic thermal parameters of dental composites*, *Optoelectronics And Advanced Materials – Rapid Communications*, Vol. 4, No. 11, pp. 1830 – 1834.
12. Dadarlat D, **Pop M. N**, Streza M, Longuemart S, Depriester M, Hadj Sahraoui A, Viorica S, *Combined FPPE–PTR Calorimetry Involving TWRC Technique II. Experimental: Application to Thermal Effusivity Measurements of Solids*, 2011, *Int J Thermophys*, 32:2092–2101.
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14. Kacso I, Rus L, **Pop M. N**, Borodi G, Bratu I, 2012, *Structural characterization of ambazone salt with niiflumic acid*, 2012, *Spectroscopy: An International Journal*, Vol. 27, No. 1, pp. 49-58.
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16. Onija O, Borodi G, Kacso I, **Pop M. N**, Dadarlat D, Bratu I, Jumate N, 2012, *Preparation And Characterization Of Urea-Oxalic Acid Solid Form*, *AIP Conf. Proc.* 1425, 35 – 8.
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18. Dadarlat D, **Pop M. N**, Onija O, Streza M, Pop M. M, Longuemart S, Depriester M, Hadj Sahraoui A, Simon V, *Photopyroelectric (PPE) calorimetry of composite materials*, *J Therm Anal Calorim* (2013) 111: 1129- 1132, doi: 10.1007/s10973-012-2270-1.
19. **M.N. Pop**, *A Photopyroelectric Measurement Device for Liquid Investigation and Monitoring*, 2014 International Conference and Exposition on Electrical and Power Engineering, Iasi 16-18 October 2014.
20. **M. N. Pop**, M. L. Soran, *A soil irrigation method for experimental plant growth*, *AIP Conference Proceedings* **1700**, 050009 (2015); doi: 10.1063/1.4938447.
21. **M.N.Pop**, *A composite layered sub-system for front detection calorimetric Instrumentation*, *Int. J. of Therm. Sci* 104 (2016) 112- 121.
22. **M.N. Pop**, *A digitally adjustable sensor signal conditioning circuit for low frequency operation*, *Sens. Actuators A: Phys.* (2017), DOI10.1016/ j.sna.2017.01.006.

Cereri de brevete naționale:

- Nr. A/00109, 12-02-2014, Solicitant: INCDTIM, Cluj-Napoca, entitled: **Dispozitiv si instalatie de masura fotopiroelectrica, destinat evaluarii si monitorizarii proprietatilor termice ale substantelor condensate**, inventori: **Pop Mircea Nicolae, Pana Ioan Ovidiu**. Rezumat publicat in BOPI 9 (2015).
- Nr. A/00796, 07.11.2016, Solicitant: INCDTIM, Cluj-Napoca, titlul: **Circuit de conditionare a semnalelor analogice, comandat digital si sistem de achizitie a unui semnal conditionat** , inventori: **Pop Mircea Nicolae**. Rezumat publicat in BOPI 5 (2018).