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Razvan Rotaru is a scientific researcher mainly devoted to the design of the ferromagnetic and ferroelectric polymeric composites, studies of the ultrasonic synthesis with applications in electromagnetic shielding, power capacitors and biomedical domains. PhD in Chemical Science from 2017 with thesis entitled “Ferroelectric and/or Ferromagnetic Polymer Composites”. He has also experience in materials characterization using methods such as: FT-IR spectroscopy, electron microscopy, dielectric spectroscopy, magnetic measurements and X-ray diffraction.

Scientific record: articles published in international peer-reviewed journals (ISI ranked and included in international data bases): 11 (5 articles as main author; total impact factor: 22.2, H-Index in Web of Science: 5), international and national conferences: 8, international and national posters: 14, books, chapters of books: 1 (John Wiley & Sons Ltd. Published), national patents: 1 (OSIM Bucharest).

Selected Scientific Articles

1. C. Peptu, R. Rotaru, L. Ignat, A.C. Humelnicu, V. Harabagiu, C.A. Peptu, M.-M. Leon, F. Mitu, E. Cojocar, A. Boca, B.I. Tamba; Nanotechnology Approaches for Pain Therapy Through Transdermal Drug Delivery; *Current Pharmaceutical Design*, 21 (42), 6125-39, 2015 (FI = 3.052);
2. R. Rotaru, C. Peptu, P. Samoila, V. Harabagiu, Preparation of ferroelectric barium titanate through an energy effective solid state ultrasound assisted method, *Journal of American Ceramic Society*, 100(10), 4511-4518, 2017 (FI = 2.841);
3. R. Rotaru, M. Savin, N. Tudorachi, C. Peptu, P. Samoila, L. Sacarescu and V. Harabagiu, Ferromagnetic iron oxide-cellulose prepared by ultrasonication, *Polymer Chemistry*, 9, 860-868, 2018, (FI = 5.375)