

List of publications

I. Publications in scientific journals

1. *Chemical composition of the essential oil of Artemisia Absinthium from Romania*, Berechet M.D., Stelescu M.D., Manaila E., Craciun G., REVISTA DE CHIMIE, 66(11), 1814-1818, **2015**;
2. *Polymeric composites based on natural rubber and hemp fibers*, Manaila E., Stelescu M.D., Doroftei F., IRANIAN POLYMER JOURNAL, 24(2), 135-148, **2015**;
3. *Characteristics of Wood Sawdust/Natural Rubber Composites Processed by Electron Beam Irradiation*, Craciun G., Manaila E., Stelescu M.D., Vasilescu A.M., MATERIALE PLASTICE, 52(2), 234-238, **2015**;
4. *Studies on Surface Modification of Silicone Biomaterials*, Manaila E., Niculescu M.D., Stelescu M.D., REVISTA DE CHIMIE, 66(8), 1193-1197, **2015**;
5. *Synthesis and Characterization of Poly(Acrylamide-Co-Acrylic Acid) Flocculant Obtained by Electron Beam Irradiation*, Craciun G., Ighigeanu D., Manaila E., Stelescu M.D., MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS, 18(5), 984-993, **2015**;
6. *Radiation vulcanization of natural rubber with polyfunctional monomers*, Manaila, E; Craciun, G; Stelescu, MD; Ighigeanu, D; Ficai, M, POLYMER BULLETIN, 71(1), 57-82, **2014**;
7. *New Green Polymeric Composites Based on Hemp and Natural Rubber Processed by Electron Beam Irradiation*, Stelescu, MD; Manaila, E; Craciun, G; Dumitrascu, M, SCIENTIFIC WORLD JOURNAL, Article Number: 684047, **2014**;
8. *Polymeric composites based on flax wastes and natural rubber*, Manaila, E; Craciun, G; Stelescu, MD; Dinca, CL; Surdu, L; Gurau, D, INDUSTRIA TEXTILA, 65(1), 53-60, **2014**;
9. *The Improvement of the Resistance to Candida albicans and Trichophyton interdigitale of Some Woven Fabrics Based on Cotton*, Surdu, L; Stelescu, MD; Manaila, E; Nicula, G; Iordache, O; Dinca, LC; Berechet, MD; Vamesu, M; Gurau, D, BIOINORGANIC CHEMISTRY AND APPLICATIONS, Article Number: 763269, **2014**;
10. *Nanoparticles synthesis by electron beam radiolysis*, Calinescu, I; Martin, D; Ighigeanu, D; Gavrilă, AI; Trifan, A; Patrascu, M; Munteanu, C; Diacon, A; Manaila, E; Craciun, G, CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, 12(7), 774-781, **2014**;
11. *Effects of benzoyl peroxide on some properties of composites based on hemp and natural rubber*, Manaila, E; Stelescu, MD; Craciun, G; Surdu, L, POLYMER BULLETIN, 71(8), 2001-2022, **2014**;
12. *Evolution of the Levels of Free Radicals Generated on Wheat Flour and Wheat Bran by Electron Beam*, M. Brasoveanu, G. Craciun, E. Manaila, D. Ighigeanu, M. Nemtanu, M. Grecu, Cereal Chemistry, 90 (5), 469-473, **2013**;
13. *Paramagnetic point defects in pure and ¹³C and ¹⁷O implanted silicon for high energy particle detectors*, S. V. Nistor, D. Ghica, I. Pintilie, E. Manaila, Romanian Reports in Physics, 65 (3), 812-819, **2013**;
14. *Natural Fibres/Polyolefins Composites (I) UV and Electron Beam Irradiation*, A. Moldovan, S. Patachia, C. Vasile, R. Darie, E. Manaila, M. Tierean, Journal of Biobased Materials and ioenergy, 7 (1) , 58-79, **2013**
15. *Vulcanization of ethylene-propylene-terpolymer-based rubber mixtures by radiation processing*, M. D. Stelescu, E. Manaila, G. Craciun, Journal of Applied Polymer Science, 128(4), 2325-2336, **2013**;
16. *One-and Two-Temperature Models in Solids Under Laser Pulse Irradiation Which Effectively Present as Two-Photon Absorption Coefficient Anisotropy*, Nemtanu, M; Craciun, G; Manaila, E; Oane, M; Brasoveanu, M; Oproiu, C; Martin, D; Ighigeanu, D; LASERS IN ENGINEERING 22 (41306), **2012**, 13-23;
17. *Crosslinking and grafting ethylene vinyl acetate copolymer with accelerated electrons in the presence of polyfunctional monomers*, Stelescu, MD; Manaila, E; Craciun, G; Zuga, N; ", POLYMER BULLETIN 68 (1), **2012**, 263-285;
18. *Gaseous Pollutants Removal by Electron Beam Based Hybrid Systems*, Ighigeanu, D; Martin, D; Calinescu, I; Bulearca, A; Manaila, E; Craciun, G., REVISTA DE CHIMIE 63 (2), **2012**, 187-192;.
19. *Synthesis of New Flocculant Materials by Copolymerization of Acrylamide and Acrylic Acid by Electron Beam Irradiation*, G. Craciun, E. Manaila, D. Martin, D. Toader, D. Ighigeanu, *Materiale Plastice*, 48 (2), **2011**, 183-188.
20. *The use of polyfunctional monomers in the radical cure of chlorinated polyethylene*, Stelescu, MD, Manaila, E, Zuga, N, Polymer Journal, 43 (9), **2011**, 792-800, DOI: 10.1038/pj.2011.53
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25. *Study on the preparation of some biocomposites based on silicone elastomers and collagen* , M. D. Zuga, H. Iovu, V. Trandafir, E. Manaila, D. Martin, M. M. Stelescu, , Jurnal of Optoelectronics and Advanced Materials (JOAM), Vol. 9, No. 11, November **2007**, pp. 3325-3329.
26. *Products of ethylene-propylene terpolymer rubber (EPDM) obtained by an environmentally friendly process*, Zuga Maria Daniela, Lucretia Miu, Marian Crudu, Brătulescu Victoria, Horia Iovu , Elena Manaila, , *Materials and Technologies*, Vol. 23 (**2007**), pp. 333-336, ISSN 1022-6680.

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31. *Application of polyelectrolytes obtained by radiation processing to potable and waste water treatment*, E. Manaila, D. Martin, G. Craciun, D. Ighigeanu, C. Matei, C. Oproiu, N. Iacob, H. Iovu, M. Sandu, E. Vulpasu, G. Racoviteanu, *IEEE Transactions on Industry Applications*, vol. 41, No. 3, pp. 698-706, **2004**.
32. *Vulcanization of Rubber Mixtures by Simultaneous Electron Beam and Microwave Irradiation*, D. Martin, D. Ighigeanu, E. Mateescu (Manaila), G. Craciun, A. Ighigeanu, *Radiation Physics and Chemistry*, **2002**, vol. 65/1, pag. 63-65;
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46. *Radiation interaction with therapeutic drugs and cell membranes*, D.I. Martin, E.N. Manaila, M.I. Moisescu, T.D. Savopol, E.A. Covacs, S.A. Cincu, C.I. Matei, I.D. Margaritescu, N.I. Iacob, D.I. Ighigeanu, G.D. Craciun, American Institute of Physics BPU-6 Conference Proceedings, (ISBN 978-0-7354-0405-2), Vol. 899, **2007**, pp. 816.
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49. *Microwave and electron beam effects on microorganisms survival in natural products*, D. Martin, G. Craciun, E. Manaila, D. Ighigeanu, C. Matei, C. Oproiu, N. Iacob, I. Togoe, I. Margaritescu, Proceedings of the 10th International Conference on optimization of Electrical and Electronic Equipments Applications of Electrical Engineering in Biology Section), Brasov, May 20-21, **2006**, Vol I: Electrotechnics, Publisher: TRANSILVANIA UNIV PRESS-BRASOV, BD EROILOR NR 9, BRASOV, RO-500030, ROMANIA_IDS Number: BHU27, ISBN 973-635-703-1, 978-973-635-703-9, pp. 233-240;
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Refereed papers

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12. *Characteristics of natural rubber blends vulcanized with electron beam and microwave*, E. Manaila, D.M. stelescu, G. Craciun, *Leather and Footwear Journal*, Vol 11(1), **2011**, pag 43-52, ISSN 1583-4433;
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