PhD. Lecturer Nastasia SACA

Education:

- PhD in 2009 in Chemical Engineering Field; University POLITEHNICA of Bucharest, Faculty of Industrial Chemistry

Position held: PhD. Lecturer Technical University of Civil Engineering,

Researcher at Research Center on Mineral Wastes Valorization in Construction Materials

Research area: specialized in investigation of the physical-chemical and mechanical properties of the construction products and of the mineral wastes for assessment of the valorization potential; environmental properties of wastes and construction materials; composite materials; solidification/stabilization of mineral waste into inorganic binder matrix; valorization of wastes into construction materials.

Experience (including managerial experience) in national/international programmes/ projects relevant for the projects

Member in working team in more than 10 national projects, from which we can mention:

1. Special cement for composite materials used for gamma radiation shielding with nuclear application, PN II, 2012-2016, subcontract UTCB 177/2012;
2. Innovative recycling technology for radioactive concrete resulted from the decommissioning of the nuclear facilities, PN II, 2012 – 2016; subcontract UTCB 178/2012;
3. Technology for neutralization of hazardous waste by recovery into vitreous and vitreous-ceramic matrix, PN2, 2008 – 2011, ICIM, subcontracts UTCB 294/2008.

Publications: author/coauthor of 24 papers indexed in Web of knowledge (ISI papers), 6 papers indexed in other international databases; total number of citation according to web of science 49; Hirsh Index: 5; Books, courses and laboratory: 3

Relevant ISI papers:

1. Saca N., Radu Lidia, Gheorghe M., Fugaru V., Petre I., Composite materials with primary lead slag content: Application in gamma radiation shielding and waste encapsulation fields, Journal of Cleaner Production 179, 255-265(2018), DOI 10.1016/j.jclepro.2018.01.045.

2. Saca N., Radu L., Mazilu C., Gheorghe M., Petre I., Fugaru V., Experimental models of grout type composite materials, with potential capacity of low level radioactivity wastes encapsulation, Romanian Journal of Materials 2016, 46(1), 34-42

2. Gheorghe M., Saca N., Radu L., Mazilu C., Mineral wastes used in advanced composite materials for low level waste immobilization, GeoConference on Nano, Bio and green technologies for sustainable future, 18-25 iunie 2015 Albena,– pp. 169-177, DOI 10.5593/SGEM2015/

3. Saca N., Georgescu M., Behaviour of ternary blended cements containing limestone filler and fly ash in magnesium sulfate solution at low temperature, Construction and Building Materials, 71,

p.246-253(2014) DOI: 10.1016/j.conbuildmat.2014.08.0374.

4. Gheorghe M., Saca N., Radu L., Poteraş G., Valorization of glass wastes in concrete, Romanian Journal of Materials 2008, 38 (1), 57-68

5. Gheorghe M., Saca N., Ghecef C., Pinţoiu R., Radu L., Beton autocompactant cu cenuşă zburătoare (Self compacted concrete with fly ash addition), Romanian Journal of Materials, 41(3), 201-210(2011)

List of publications: http://ccvademc.utcb.ro/CV%20Saca.%20-%20EuroPass.pdf