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Disciplines: chemical sciences [NCh]

polyurethanes

nanocomposites

graphene

thermal analysis

Bibliometric indicators

1. Number of journal publications in WoS/Scopus: 47(WoS)/42(Scopus)

2. Citations excluding self-citations: WoS 647 Scopus 520

3. Hirsch index: WoS 15 Scopus 15

1. The number of PhD students who have graduated under your supervision: 0

2. The number of PhD students currently supervised:

a. within the current doctoral school: 0

b. within doctoral studies (previous years): 0

3. Are you currently accepting new PhD students:

a. Polish Yes/No: Yes

b. Foreign Yes/No: Yes

Investigation of the influence of nanofillers from the group of graphene derivatives (GO, GNP, RGO) on the properties of polyurethane matrix composites, in particular of segmental polyurethanes containing rigid (HS) and flexible (SS) segments in their structure.

Analysis of the influence of nanofillers (graphene derivatives - GNP and RGO) on the properties of polyurethane matrices (solid, microporous, foamed) in terms of reinforcement, and their impact on the two-phase structure.

Interactions of nanofillers (RGO and GNP) in a solid and microporous polyurethane matrix in the context of the study of viscoelastic, thermal and mechanical properties. In addition, research on aggregation enhancement in these nanocomposites.

General study will focus on polyurethane nanocomposites in the aspect of materials with shape memory (SMP) and materials with self-healing properties.

iii

1. Is funding available for experimental work: Yes/No/not

2. Is the equipment needed to complete a PhD project available in your lab/department: Yes/No/not needed

Most important publications -

8

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	Ajitha, A. R., Geethamma, V. G., Mathew, L., Saha, P., Kalarikkal, N., Thomas, S., & Strankowski, M. (2018). Tuning of microstructure in engineered poly (trimethylene terephthalate) based blends with nano inclusion as multifunctional additive. POLYMER TESTING, 68, 395–44.	100	2018
2.			

3.			
4.			
5.			

- no more than 3

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Year	Role in the project
1.	PUR-GRAF project titled "Polyurethane nanocomposites containing reduced graphene oxide" (GRAF-TECH/NCBR/11/08/2013) that was financed by the National Centre for Research and Development, based on GRAF-TECH project. I realized my work as both the project manager and the main project contractor.	2013-2015	PI <input type="button" value="v"/>
2.			PI <input type="button" value="v"/>
3.			PI <input type="button" value="v"/>

Additional relevant information -

v

