Researcher profile (portfolio) form for potential research supervisors of postgraduate track participants in the Global Universities Association International Olympiad for graduate and postgraduate applicants 2023-2024.

University	Tomsk Polytechnic University
English language proficiency	B2
Applicant's postgraduate	Physical chemistry
program	
List of possible research topics	Inorganic dispersed materials
	Waste recycling
	Supervisor's research interests (detailed description of research interests):
	Nanomaterials
	Functional composite materials
	Supervisor's specific requirements:
	 Knowledge of physical and chemical methods of analysis
	 Possession of basic methods of inorganic synthesis
	Knowledge of solid state physics
	Supervisor's main publications (specify a total number of
	publications in journals indexed by Web of Science, Scopus, RSCI
	for the last 5 years, list up to 5 most significant publications with
	the publication details):
Research supervisor:	Mostovshchikov, A.V., Goldenberg, B.G., Nazarenko, O.B.
Andrei V. Mostovshchikov,	Effect of synchrotron radiation on thermochemical properties of
	aluminum micro- and nanopowders // Materials Science and Engineering B: Solid-State Materials for Advanced Technology,
Doctor of Science (Tomsk	2022, 285,115961
Polytechnic University)	 Mostovshchikov A., Gubarev F., Chumerin P., Arkhipov V.,
	Kuznetsov V., Dubkova Y. Solid Energetic Material Based on
	Aluminum Micropowder Modified by Microwave Radiation //
	Crystals, 2022, 12(4), 446
	Li L., Gubarev F., Mostovshchikov A. Synchronized Two-
	Camera Laser Monitor for Studying Combusting Powder
	Systems // Symmetry, 2022, 14(4), 656.
	In 2018, RF patent No. 2637732 "Aluminum nanopowder
	activation method" was included in the list of "100 best inventions

of Russia for 2017" (Rospatent order No. 35 dated March 1, 2018).