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SCIENTIFIC QUALIFICATION

Academic degree 2019: PhD

Research area: Macromolecular chemistry, biotechnology, nanotechnology, green synthesis, nanoparticles, polymers, alternative energy sources

SCIENTIFIC DIRECTION

Participation in the implementation of research work within the framework of the state order:

-Grant funding project (source of funding - Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan): "Development of technology for the production of transition metal nanoparticles with a controlled particle size" No. state. reg. 0115RK00930, 2015-2017, position - executive officer.

-- The project "Water saving technologies based on new polymeric moisture sorbents in the cultivation of crops" (winner of the competition "Online Expo-2017" and demonstrated in the National Pavilion "Kazakhstan" at the exhibition "Expo-2017", 2017, position - responsible performer.

-Grant funding project (funding source - Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan "Creation of technology for obtaining new supermoisture sorbents, ion exchangers and structural materials based on copolymers of polypropylene glycol maleinate, polypropylene glycol maleinate phthalate" 2018-2020, position - performer.

-AP14871144 Development of technology for processing sludge and "green" waste from urban plantations into organic fertilizer using domestic biological products 2022-2024, position - executor.

SCIENTIFIC ACHIEVEMENTS

Hirsch index – 2

Publications in Web of Science, Scopus - 18;

Publications in the RSCI - more than 10;

Publications in KOKSON - more than 20;

Innovative patents - 7;

Monographs - 1;