

#	Project Title	PI		Affiliation (Leading, participating)	City/Current location
1	Stochastic dynamics of domain walls and skyrmions on the racetrack memory	Hlushchenko	Anton	National Science Center "Kharkiv Institute of Physics and Technology", V.N. Karazin Kharkiv National University	Kharkiv
2	Magneto-mechanical Modulation of Soft Tissue Model Properties Containing Magnetic Nanoparticles under Stationary Magnetic Fields	Orel	Valerii	National Cancer Institute of Ukraine, V.G. Baryakhtar Institute of Magnetism of the NAS of Ukraine	Kyiv
3	Magnetically Ordered Nanoscale Materials and Magnetic Semiconductors for Flexible Thermostable Sensors of Technical and Medical Applications	Odnodvoretz	Larysa	Sumy State University	Sumy
4	Novel materials for future information technology – from structural topology to applications	Gnezdilov	Volodymyr	B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine	Kharkiv
5	Geometric control of field-induced domain wall dynamics in curved ferro- and antiferromagnetic nanowires	Sheka Denys	Denys	Taras Shevchenko National University of Kyiv	Kyiv
6	Critical torsional deformation of a magneto-active elastomer in a magnetic field	Ryabchenko	Sergiy	Institute of Physics NAS of Ukraine, V. G. Baryakhtar Institute of Magnetism of the NAS of Ukraine, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"	Kyiv
7	Dual-antiferromagnetic-layer spin Hall devices	Shtanko	Oleh	Taras Shevchenko National University of Kyiv	Kyiv
8	Magnetic phases and collective excitations in quantum systems with finite-range interactions	Peletmynskiy	Ileksandr	National Science Center "Kharkiv Institute of Physics and Technology"	Kharkiv
9	Local-field enhancement of the optical response of magneto-plasmonic nano-systems	Demydenko	Yurii	V.E. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Taras Shevchenko National University	Kyiv
10	Dynamic properties of one-dimensional magnetoelectric crystals	Derzhko	Oleg	Institute for Condensed Matter Physics, NAS of Ukraine	Iviv
11	Improving the efficiency of transversal flux machine by reducing its parasitic magnetic forces	Duniev	Oleksii	National Technical University "Kharkiv Polytechnic Institute"	Kharkiv
12	Magnetocaloric and elastocaloric effects in Fe-Mn-Ga alloys	Konopliuk	Serhii	V.G. Baryakhtar Institute of magnetism NASU , Institute of Applied Mathematics and Fundamental Sciences of Lviv Polytechnic National University	Kyiv/ Iviv
13	Band-Structure Engineering in MBE-grown Multicomponent Dilute Semiconductors and Topological Semimetal Layers	Yastrubchak	Oksana	V.E. Lashkaryov Institute of Semiconductor Physics, National Academy of Sciences of Ukraine	Kyiv
14	Chiral spin crossover materials with switchable optical	Kucheriv	Olesia	Taras Shevchenko National University of Kyiv	Kyiv