

RMHD-2021

Tuesday, 21 September 2021

Magnetic fluids and their applications: Session 12 - Magnetic fluids and their applications (11:30 - 13:10)

time	[id] title	presenter
11:30	[61] Mathematical modelling of the collective magnetization relaxation dynamics of Brownian magnetic nanoparticles	IVANOV, A.O.
11:50	[62] Mathematical modelling of static magnetic properties of multicore particles	SUBBOTIN, I
12:10	[63] The specific loss power of a system of single-domain interacting superparamagnetic particles	KUZNETSOVA, A
12:30	[64] Convection of a magnetic fluid in vertical connected channels in a permanent magnetic field	SIDOROV, A
12:50	[65] Viscoelasticity modules in ferrofluids with clustered nanoparticles	CHIRIKOV, D

Magnetic fluids and their applications: Session 14 - Magnetic fluids and their applications (14:30 - 15:50)

time	[id] title	presenter
14:30	[44] Separation of active-dipolar cubes in applied fields	KAISER, M
14:50	[45] The magnetized spherical couette system: from numerics to experiments	GARCIA, F
15:10	[46] Phase behavior of charged magnetic nanoplatelets	ROSENBERG, M
15:30	[47] Simple approximate formula for susceptibility of concentrated ferrofluid in a DC and AC magnetic fields	ELFIMOVA, E

Magnetic fluids and their applications: Session 16 - Magnetic fluids and their applications (16:30 - 18:10)

time	[id] title	presenter
16:30	[72] An effect of the magnetic field on heat transfer of boiling magnetic fluid on a horizontal heater with spot heat input	YANOVSKII, A
16:50	[73] Influence of nonlinearity of magnetization law on Kelvin-Helmholtz instability for horizontal relative motion of ferrofluid and gas flows in a longitudinal magnetic field	KOROVIN, V
17:10	[74] Instability of a flat surface of a magnetic fluid at the boundary with water in an electric field	CHEKANOV, V
17:30	[75] Dispersion of slow magnetoacoustic waves caused by thermal misbalance and finite size of magnetic flux tube	BELOV, S
17:50	[76] Hydro-gas dynamics of vaporization in a magnetic liquid in a magnetic field	SIMONOVSKII, A

Wednesday, 22 September 2021

Magnetic fluids and their applications: Session 22 - Magnetic fluids and their applications (14:30 - 15:50)

time	[id] title	presenter
14:30	[100] Magnetic nanogel in shear flow	NOVIKAU, I
14:50	[101] Four-parameter model of magnetizable elastomers viscoelastic behavior	MERKULOV, D
15:10	[102] Rheology of nanoscale polymer-like chains with ferromagnetic nanoparticles	MOSTARAC, D
15:30	[103] Specific deformation of drops of magnetic emulsion in a variable electric field	BEKETOVA, E

Magnetic fluids and their applications: Session 24 - Magnetic fluids and their applications (16:30 - 18:10)

time	[id] title	presenter
16:30	[110] Experimental study of the magnetic fluid surface tension variation in the uniform magnetic field	KHOKHRYAKOVA, C
16:50	[111] Statistical theory of magnetic field induced phase transitions in ferronematics	MANTSUROV, A
17:10	[112] Floating of non-magnetic and superparamagnetic solids in ferrofluids: inductive approach	IVANOV, Alexey
17:30	[113] Waves on a free surface of a magnetic fluid in alternating vertical magnetic field	КОЛЕШНИЧЕНКО, Екатерина
17:50	[114] Relaxation spectrum of a superparamagnetic nanoparticle, suspended in a liquid: the effect of an applied field	ПОПЕРЕЧНЫЙ, Igor