

Arthur R Zakinyan

List of Publications by Year in descending order

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50
papers

286
citations

1040056

9
h-index

1058476

14
g-index

50
all docs

50
docs citations

50
times ranked

200
citing authors

#	ARTICLE	IF	CITATIONS
1	Motion of a deformable drop of magnetic fluid on a solid surface in a rotating magnetic field. <i>Experimental Thermal and Fluid Science</i> , 2012, 39, 265-268.	2.7	34
2	Drops deformation and magnetic permeability of a ferrofluid emulsion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 380, 314-318.	4.7	29
3	Dynamics of a dielectric droplet suspended in a magnetic fluid in electric and magnetic fields. <i>Journal of Electrostatics</i> , 2012, 70, 225-232.	1.9	15
4	Anisotropy of magnetic emulsions induced by magnetic and electric fields. <i>Physical Review E</i> , 2011, 84, 031402.	2.1	13
5	Electrocapillary Instability of Magnetic Fluid Peak. <i>Langmuir</i> , 2013, 29, 9098-9103.	3.5	13
6	Thermal conductivity of emulsion with anisotropic microstructure induced by external field. <i>Colloid and Polymer Science</i> , 2020, 298, 1063-1076.	2.1	13
7	Structured media based on magnetic colloids as a promising material for magnetically controllable optical elements. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2021, 88, 158.	0.4	13
8	Instability of a thin layer of a magnetic fluid in a perpendicular magnetic field. <i>Technical Physics</i> , 2010, 55, 1270-1274.	0.7	11
9	Effect of microdrops deformation on electrical and rheological properties of magnetic fluid emulsion. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 103-106.	2.3	11
10	Deformation of magnetosensitive emulsion microdroplets in magnetic and electric fields. <i>Colloid Journal</i> , 2006, 68, 137-141.	1.3	9
11	Electrical Properties of Chain Microstructure Magnetic Emulsions in Magnetic Field. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 111-119.	2.4	9
12	Influence of Atmosphere Near-Surface Layer Properties on Development of Cloud Convection. <i>Atmosphere</i> , 2019, 10, 131.	2.3	8
13	Investigating the feasibility of artificial convective cloud creation. <i>Atmospheric Research</i> , 2020, 243, 104998.	4.1	8
14	Two-dimensional analytical model of dry air thermal convection. <i>Meteorology and Atmospheric Physics</i> , 2015, 127, 451-455.	2.0	7
15	Electroconvective structures formed in a magnetic colloid layer. <i>Colloid Journal</i> , 2015, 77, 16-19.	1.3	7
16	Flows and instabilities of ferrofluids at the microscale. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	7
17	Dynamics of a nonmagnetic drop suspended in a magnetic fluid in a rotating magnetic field. <i>Technical Physics</i> , 2010, 55, 1082-1086.	0.7	6
18	Rotating field induced torque on ferrofluid emulsion with deformable dispersed phase microdrops. <i>Sensors and Actuators A: Physical</i> , 2020, 314, 112347.	4.1	6

#	ARTICLE	IF	CITATIONS
19	Instability of the miscible magnetic/non-magnetic fluid interface. Journal of Fluid Mechanics, 2021, 913, .	3.4	6
20	Atmospheric conditions favorable for the creation of artificial clouds by a jet saturated with hygroscopic aerosol. Atmospheric Research, 2022, 277, 106323.	4.1	6
21	Convection of Moist Saturated Air: Analytical Study. Atmosphere, 2016, 7, 8.	2.3	5
22	Experimental investigation of surface instability of a thin layer of a magnetic fluid. European Journal of Mechanics, B/Fluids, 2016, 56, 172-177.	2.5	5
23	Magnetic and structural properties of magnetic colloids with a well-developed system of magnetized aggregates. Journal of Molecular Liquids, 2020, 319, 114171.	4.9	5
24	Structural Transformations in Magnetic Emulsions upon Their Interaction with an Alternating Electric Field. Colloid Journal, 2021, 83, 189-202.	1.3	5
25	Effects of structural transformations in magnetic emulsions. Colloid Journal, 2007, 69, 691-694.	1.3	4
26	Electrokinetic phenomena in a kerosene-based magnetic fluid. Technical Physics, 2012, 57, 344-349.	0.7	4
27	Electrical Conductivity of Field-Structured Emulsions. Fluids, 2020, 5, 74.	1.7	4
28	Magnetic Field Inhibition of Convective Heat Transfer in Magnetic Nanofluid. Magnetochemistry, 2021, 7, 21.	2.4	3
29	Phases of the Isobaric Surface Shapes in the Geostrophic State of the Atmosphere and Connection to the Polar Vortices. Atmosphere, 2016, 7, 126.	2.3	2
30	Bäcklund Transformations for Nonlinear Differential Equations and Systems. Axioms, 2019, 8, 45.	1.9	2
31	Temperature dependence of dynamic magnetic properties of superparamagnetic magnetite nanoparticles powder. Journal of Magnetism and Magnetic Materials, 2019, 483, 178-182.	2.3	2
32	Instability of the ferrofluid layer on a magnetizable substrate in a perpendicular magnetic field. Magnetohydrodynamics, 2012, 48, 615-622.	0.3	2
33	Bäcklund Transformations for Liouville Equations with Exponential Nonlinearity. Axioms, 2021, 10, 337.	1.9	2
34	Dispersion medium crystallization effect on the magnetic susceptibility of ferrofluids. Journal of Applied Physics, 2022, 131, 204701.	2.5	2
35	Use of a magnetic fluid for particle size analysis by a sedimentation method. Journal of Magnetism and Magnetic Materials, 2009, 321, 1433-1435.	2.3	1
36	Ferrofluid Capillary Rise in Porous Medium Under the Action of Nonuniform Magnetic Field. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	1

#	ARTICLE	IF	CITATIONS
37	Instability of a Magnetic Fluid Jet in a Transverse Magnetic Field. Chemical Engineering Communications, 2017, 204, 434-439.	2.6	1
38	Design of science laboratory sessions with magnetic fluids. International Journal of Mechanical Engineering Education, 2017, 45, 349-359.	1.0	1
39	Vortex Motion State of the Dry Atmosphere with Nonzero Velocity Divergence. Proceedings (mdpi), 2017, 1, .	0.2	1
40	Microstructure formation and macroscopic dynamics of ferrofluid emulsion in rotating magnetic field. EPJ Web of Conferences, 2018, 185, 09004.	0.3	1
41	The Features of Ring-Shaped Deposit Formation upon Evaporation of Magnetic Colloid Droplets in a Magnetic Field. Colloid Journal, 2019, 81, 501-506.	1.3	1
42	Magnetic-Field-Controlled Photoinduced Thermocapillary Deformation of Magnetic Fluid Surface. Colloid Journal, 2020, 82, 507-512.	1.3	1
43	Peculiarities of Magnetic Fluid Microdrops Instability in Thin Layer in Magnetic Field. Solid State Phenomena, 0, 152-153, 171-174.	0.3	0
44	Sedimentation analysis using a magnetic fluid. Colloid Journal, 2009, 71, 173-176.	1.3	0
45	Dynamics of a Dielectric Microdrop Suspended in a Magnetic Fluid in Electric and Magnetic Fields. Solid State Phenomena, 2012, 190, 653-656.	0.3	0
46	Vortex Motion State of the Dry Atmosphere with Nonzero Velocity Divergence. Atmosphere, 2018, 9, 61.	2.3	0
47	Aggregation Kinetics and Macroscopic Properties of an Athermal Suspension in Uniaxial Magnetic Field. IEEE Magnetics Letters, 2021, 12, 1-5.	1.1	0
48	Influence of the Magnetic Field on Thermal Convection in a Magnetic Fluid. , 2020, , .		0
49	ELECTRICAL CONDUCTIVITY OF MAGNETIC EMULSIONS WITH CHAIN MICROSTRUCTURE IN MAGNETIC FIELD. Nauka, Innovacii, Tehnologii, 2020, , 8-18.	0.2	0
50	ANALYSIS OF LARGE-SCALE CIRCULATION OF THE ATMOSPHERE BY DATA OF REMOTE SENSING OF THE EARTH FROM SPACE. Nauka, Innovacii, Tehnologii, 2020, , 91-114.	0.2	0