Kinnari H Parekh

List of Publications by Year
in descending order

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71 papers	1,279 citations	430874 18 h-index	395702 33 g-index
71 all docs	71 docs citations	71 times ranked	1382 citing authors

#	Article	IF	Citations
1	Influence of crystallite size on the magnetic properties of Fe3O4 nanoparticles. Journal of Alloys and Compounds, 2016, 678, 478-485.	5.5	147
2	Magnetic field induced enhancement in thermal conductivity of magnetite nanofluid. Journal of Applied Physics, 2010, 107, .	2.5	124
3	Room temperature ferromagnetism in transition metal (V, Cr, Ti) doped In2O3. Journal of Applied Physics, 2007, 101, 09N513.	2.5	92
4	Gd-substituted ferrite ferrofluid: a possible candidate to enhance pyromagnetic coefficient. Journal of Magnetism and Magnetic Materials, 1999, 201, 129-132.	2.3	65
5	Experimental Evidence of Zero Forward Scattering by Magnetic Spheres. Physical Review Letters, 2006, 96, 127402.	7.8	56
6	Ternary monodispersed Mn0.5Zn0.5Fe2O4ferrite nanoparticles: preparation and magnetic characterization. Nanotechnology, 2006, 17, 5970-5975.	2.6	44
7	Prevention of hot spot temperature in a distribution transformer using magnetic fluid as a coolant. International Journal of Thermal Sciences, 2016, 103, 35-40.	4.9	43
8	Static and dynamic magnetic properties of monodispersed Mn0.5Zn0.5Fe2O4 nanomagnetic particles. Journal of Applied Physics, 2010, 107, 053907.	2.5	39
9	Maghemite Nanocrystal Impregnation by Hydrophobic Surface Modification of Mesoporous Silica. Langmuir, 2007, 23, 8838-8844.	3.5	36
10	Two stage magnetic fluid vacuum seal for variable radial clearance. Vacuum, 2020, 172, 109087.	3.5	36
11	In vitro hyperthermic effect of magnetic fluid on cervical and breast cancer cells. Scientific Reports, 2020, 10, 15249.	3.3	36
12	Electron spin resonance study of a temperature sensitive magnetic fluid. Journal of Applied Physics, 2000, 88, 2799-2804.	2.5	35
13	Performance of Mn-Zn ferrite magnetic fluid in a prototype distribution transformer under varying loading conditions. International Journal of Thermal Sciences, 2017, 114, 64-71.	4.9	30
14	Structural and magnetic properties of size-controlled Mn0.5Zn0.5Fe2O4 nanoparticles and magnetic fluids. Pramana - Journal of Physics, 2009, 73, 765-780.	1.8	24
15	Design and development of large radial clearance static and dynamic magnetic fluid seal. Vacuum, 2018, 156, 325-333.	3.5	24
16	Spin-glass transition in a model magnetic fluid:â€ƒElectron spin resonance investigation ofMn0.5Zn0.5Fe2O4nanoparticles dispersed in kerosene. Physical Review B, 2003, 68, .	3.2	21
17	Thermo-magnetic properties of ternary polydispersed Mn0.5Zn0.5Fe2O4 ferrite magnetic fluid. Solid State Communications, 2014, 187, 33-37.	1.9	21
18	Magnetic and Rheological Characterization of Fe3O4 Ferrofluid: Particle Size Effects. Hyperfine Interactions, 2005, 160, 211-217.	0.5	19

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19	Maneuvering thermal conductivity of magnetic nanofluids by tunable magnetic fields. Journal of Applied Physics, 2015, 117, .	2.5	19
20	Magnetocaloric effect in temperature-sensitive magnetic fluids. Bulletin of Materials Science, 2000, 23, 91-95.	1.7	18
21	Effect of rare-earth Ho ion substitution on magnetic properties of Fe3O4 magnetic fluids. Journal of Applied Physics, 2006, 99, 08M906.	2.5	18
22	Experimental investigation of thermal conductivity of magnetic nanofluids. AIP Conference Proceedings, 2012, , .	0.4	18
23	Optimization of Design Parameters Affecting the Performance of a Magnetic Fluid Rotary Seal. Arabian Journal for Science and Engineering, 2021, 46, 2343-2348.	3.0	18
24	Effect of carrier and particle concentration on ultrasound properties of magnetic nanofluids. Ultrasonics, 2015, 55, 26-32.	3.9	16
25	Low-field DC-magnetization study of Ho3+-doped Mnâ€“Zn ferrite ferrofluid. Journal of Magnetism and Magnetic Materials, 2007, 311, 106-110.	2.3	15
26	Ultrasonic propagation: A technique to reveal field induced structures in magnetic nanofluids. Ultrasonics, 2015, 60, 126-132.	3.9	14
27	Nanolubricant: magnetic nanoparticle based. Materials Research Express, 2017, 4, 114003.	1.6	14
28	Technique to optimize magnetic response of gelatin coated magnetic nanoparticles. Journal of Materials Science: Materials in Medicine, 2015, 26, 202.	3.6	13
29	Preliminary in-vitro investigation of magnetic fluid hyperthermia in cervical cancer cells. Journal of Magnetism and Magnetic Materials, 2020, 497, 166057.	2.3	13
30	Magneto-Optical Effects in Temperature-Sensitive Ferrofluids. Applied Optics, 2004, 43, 3619.	2.1	12
31	Field-induced diffraction patterns in a magneto-rheological suspension. Journal of Magnetism and Magnetic Materials, 2005, 289, 311-313.	2.3	12
32	Role of inter-particle force between micro and nano magnetic particles on the stability of magnetorheological fluid. AIP Advances, 2017, 7, .	1.3	12
33	Investigating the effect of outer layer of magnetic particles on cervical cancer cells HeLa by magnetic fluid hyperthermia. Cancer Nanotechnology, 2021, 12, .	3.7	12
34	Temperature dependent acoustic properties of temperature sensitive magnetic fluid subjected to magnetic field. Journal of Molecular Liquids, 2017, 248, 569-576.	4.9	9
35	The effect of magnetic field induced aggregates on ultrasound propagation in aqueous magnetic fluid. Journal of Magnetism and Magnetic Materials, 2017, 431, 74-78.	2.3	9
36	Influence of Magnetic Field on the Two-Photon Absorption and Hyper-Rayleigh Scattering of Manganeseâ€“Zinc Ferrite Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 6784-6795.	3.1	9

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37	Effect of Size and Morphology on Stability and Thermal Conductivity of ZnO Nanofluid. Journal of Nanofluids, 2018, 7, 284-291.	2.7	8
38	Effect of ferrofluid magnetization on transformer temperature rise. Journal Physics D: Applied Physics, 2022, 55, 345002.	2.8	8
39	Monodispersed Magnetic Fluids: Synthesis and Characterization. Solid State Phenomena, 0, 155, 155-162.	0.3	7
40	Contribution of magnetic nanoparticle in thermal conductivity of flake-shaped iron particles based magnetorheological (MR) fluid. Journal of Applied Physics, 2019, 126, 055104.	2.5	7
41	Contribution of the positional and orientational ordering in anisotropic particle-based MR fluids: static and dynamic rheological study. Rheologica Acta, 2020, 59, 887-904.	2.4	7
42	Magnetically textured ferrofluid in a non-magnetic matrix: Magnetic properties. Bulletin of Materials Science, 2004, 27, 163-168.	1.7	6
43	Monodispersed Superparamagnetic Fe₃O₄ Nanoparticles: Synthesis and Characterization. Journal of Nanoscience and Nanotechnology, 2009, 9, 2104-2110.	0.9	6
44	Magnetization dynamics in rare earth Gd3+ doped Mn0.5Zn0.5Fe2O4 magnetic fluid: Electron spin resonance study. Journal of Magnetic Resonance, 2012, 225, 46-51.	2.1	6
45	Mechanism of acid corrosion inhibition using magnetic nanofluid. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2016, 7, 045007.	1.5	6
46	Nanocatalytic physicochemical adsorption and degradation of organic dyes. Pramana - Journal of Physics, 2019, 92, 1.	1.8	6
47	Thermal conductivity of flake-shaped iron particles based magnetorheological suspension: Influence of nano-magnetic particle concentration. Journal of Magnetism and Magnetic Materials, 2020, 503, 166633.	2.3	6
48	Surface spin-glass-like behavior of monodispersed superparamagnetic Mn0.5Zn0.5Fe2O4 magnetic fluid. Applied Physics A: Materials Science and Processing, 2012, 106, 223-228.	2.3	5
49	Evaluation of Static and Dynamic Yield Stress for Isotropic and Anisotropic Particleâ€“Based MR Fluids: Modeling and Analysis. Brazilian Journal of Physics, 2020, 50, 399-409.	1.4	5
50	Biosynthesis of magnetite nanoparticles: an eco-friendly and scalable approach. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 035014.	1.5	5
51	Investigation of Dynamic Magnetic Properties of Surfactant Coated Monodispersed Fe₃O₄ Nanomagnetic Particles. Journal of Nanofluids, 2012, 1, 93-96.	2.7	5
52	UV light induced photodegradation of organic dye by ZnO nanocatalysts. AIP Conference Proceedings, 2013, , .	0.4	4
53	Morphological metamorphosis of magnetic nanoparticles due to the presence of rare earth atoms in the spinel structure: From spheres to cubes. Materials Chemistry and Physics, 2019, 222, 217-226.	4.0	4
54	Controllability of ferrofluidsâ€™ dielectric spectrum by means of external electric forces. Journal Physics D: Applied Physics, 2021, 54, 035303.	2.8	4

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55	The Effect of Magnetic Field on the Structure Formation in an Oil-Based Magnetic Fluid with Multicore Iron Oxide Nanoparticles. Journal of Nanofluids, 2018, 7, 292-299.	2.7	4
56	The dielectric breakdown strength of transformer oil based magnetic fluids: effect of magnetic field strength and exposure time. Journal of Materials Science: Materials in Electronics, 2022, 33, 17113-17124.	2.2	4
57	Influence of magnetic anisotropy constant and particle domain magnetization on magneto-dielectric response of substituted manganese ferrite particles dispersed in kerosene. Journal of Magnetism and Magnetic Materials, 2001, 234, 90-94.	2.3	3
58	Spin-glass-like magnetic ordering in Zn substituted magnetite magnetic fluids. Journal of Magnetic Resonance, 2007, 187, 314-319.	2.1	3
59	Defragmentation of lysozyme derived Amyloid Î² fibril using Biocompatible Magnetic fluid. Journal of Materials Science: Materials in Medicine, 2018, 29, 171.	3.6	3
60	Effect of Particle Concentration on Lubricating Properties of Magnetic Fluid. Journal of Nanofluids, 2018, 7, 420-427.	2.7	3
61	MehtaetÂal.Reply:. Physical Review Letters, 2007, 98, .	7.8	2
62	The effect of spherical nanoparticles on rheological properties of bi-dispersed magnetorheological fluids. AIP Conference Proceedings, 2015, , .	0.4	2
63	Heating efficiency dependency on size and morphology of magnetite nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	2
64	Effect of $$hbox {Me}^{2+}/hbox {OH}^{-}$$ ratio in the formation of $$hbox {Mn}_{0.5}{hbox {Zn}}_{{0.5}}{hbox {Fe}}_{{2}}{hbox {O}}_{{4}}$$ nanoparticles of different sizes and shapes in association with thermomagnetic property. Pramana - Journal of Physics, 2020, 94, 1.	1.8	2
65	Ac-susceptibility study in rare earth substituted magnetite ferrofluids. Physics Procedia, 2010, 9, 32-35.	1.2	1
66	Experimental investigation of nearly monodispersed ternary Mn0.5Zn0.5Fe2O4 magnetic fluid. Magnetohydrodynamics, 2008, 44, 19-26.	0.3	1
67	Drug prescription patterns in patients with Alzheimer's disease in an urban neuro-specialty clinic in Western India. National Journal of Physiology, Pharmacy and Pharmacology, 2019, 9, 1.	0.1	1
68	MehtaetÂal.Reply:. Physical Review Letters, 2008, 100, .	7.8	0
69	Ultrasonic Velocity and Rheological Measurement of Coolants. Solid State Phenomena, 2013, 209, 194-197.	0.3	0
70	Response to â€œComment on: The effect of magnetic field induced aggregates on ultrasound propagation in aqueous magnetic fluid [J. Magn. Magn. Mater. 431 (2017) 74â€“78]â€. Journal of Magnetism and Magnetic Materials, 2019, 475, 796-797.	2.3	0
71	Application of Magnetic Fluid in the Energy Sector. , 2019, , 65-89.		0