John Philip

List of Publications by Year
in descending order

296 papers	12,488 citations	31902 53 h-index	32761 100 g-index
302 all docs	302 docs citations	302 times ranked	11077 citing authors

#	Article	IF	Citations
1	A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, .	1.1	897
2	Medical applications of infrared thermography: A review. Infrared Physics and Technology, 2012, 55, 221-235.	1.3	847
3	Infrared thermography for condition monitoring â€“ A review. Infrared Physics and Technology, 2013, 60, 35-55.	1.3	648
4	Review on thermal properties of nanofluids: Recent developments. Advances in Colloid and Interface Science, 2015, 225, 146-176.	7.0	352
5	Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures. Applied Physics Letters, 2007, 91, .	1.5	320
6	Effect of clustering on the thermal conductivity of nanofluids. Materials Chemistry and Physics, 2008, 109, 50-55.	2.0	269
7	Thermal properties of nanofluids. Advances in Colloid and Interface Science, 2012, 183-184, 30-45.	7.0	225
8	Evidence for enhanced thermal conduction through percolating structures in nanofluids. Nanotechnology, 2008, 19, 305706.	1.3	224
9	Nanofluid with tunable thermal properties. Applied Physics Letters, 2008, 92, .	1.5	207
10	Effect of initial pH and temperature of iron salt solutions on formation of magnetite nanoparticles. Materials Chemistry and Physics, 2007, 103, 168-175.	2.0	203
11	Inversion of Silica-Stabilized Emulsions Induced by Particle Concentration. Langmuir, 2005, 21, 3296-3302.	1.6	202
12	Synthesis of Aqueous and Nonaqueous Iron Oxide Nanofluids and Study of Temperature Dependence on Thermal Conductivity and Viscosity. Journal of Physical Chemistry C, 2010, 114, 18825-18833.	1.5	173
13	Influence of Co²⁺ Ion Concentration on the Size, Magnetic Properties, and Purity of CoFe₂O₄ Spinel Ferrite Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 6334-6341.	1.5	172
14	Synthesis, characterization, and thermal property measurement of nano-Al95Zn05 dispersed nanofluid prepared by a two-step process. International Journal of Heat and Mass Transfer, 2011, 54, 3783-3788.	2.5	166
15	Role of microconvection induced by Brownian motion of nanoparticles in the enhanced thermal conductivity of stable nanofluids. Applied Physics Letters, 2009, 94, .	1.5	156
16	Effect of Digestion Time and Alkali Addition Rate on Physical Properties of Magnetite Nanoparticles. Journal of Physical Chemistry B, 2007, 111, 7978-7986.	1.2	152
17	Micelle based synthesis of cobalt ferrite nanoparticles and its characterization using Fourier Transform Infrared Transmission Spectrometry and Thermogravimetry. Materials Chemistry and Physics, 2010, 124, 264-269.	2.0	146
18	Correlation between Plantar Foot Temperature and Diabetic Neuropathy: A Case Study by Using an Infrared Thermal Imaging Technique. Journal of Diabetes Science and Technology, 2010, 4, 1386-1392.	1.3	143

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19	Infrared thermal imaging for detection of peripheral vascular disorders. Journal of Medical Physics, 2009, 34, 43.	0.1	136
20	Tuning of Thermal Conductivity and Rheology of Nanofluids Using an External Stimulus. Journal of Physical Chemistry C, 2011, 115, 20097-20104.	1.5	132
21	Optical Properties and Applications of Ferrofluidsâ€”A Review. Journal of Nanofluids, 2012, 1, 3-20.	1.4	123
22	Magnetically controllable nanofluid with tunable thermal conductivity and viscosity. Applied Physics Letters, 2009, 95, .	1.5	120
23	A tunable optical filter. Measurement Science and Technology, 2003, 14, 1289-1294.	1.4	111
24	Efficient removal of methylene blue dye using cellulose capped Fe3O4 nanofluids prepared using oxidation-precipitation method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 567, 193-204.	2.3	109
25	Magnetic nanoparticles with enhanced Î³-Fe2O3to Î±-Fe2O3phase transition temperature. Nanotechnology, 2006, 17, 5851-5857.	1.3	105
26	Effects of Interaction of Ionic and Nonionic Surfactants on Self-Assembly of PEOâ€“PPOâ€“PEO Triblock Copolymer in Aqueous Solution. Journal of Physical Chemistry B, 2012, 116, 1499-1507.	1.2	98
27	Magnetic hyperthermia in phosphate coated iron oxide nanofluids. Journal of Magnetism and Magnetic Materials, 2016, 407, 101-113.	1.0	96
28	Carbon black nano particle loaded lauric acid-based form-stable phase change material with enhanced thermal conductivity and photo-thermal conversion for thermal energy storage. Energy, 2020, 191, 116572.	4.5	91
29	Influence of aggregation on thermal conductivity in stable and unstable nanofluids. Applied Physics Letters, 2010, 97, .	1.5	90
30	Effect of thermal annealing under vacuum on the crystal structure, size, and magnetic properties of ZnFe2O4 nanoparticles. Journal of Applied Physics, 2007, 102, .	1.1	89
31	Nanofluid based optical sensor for rapid visual inspection of defects in ferromagnetic materials. Applied Physics Letters, 2012, 100, .	1.5	89
32	Effect of Surfactant Monolayer on Reduction of Fe₃O₄ Nanoparticles under Vacuum. Journal of Physical Chemistry C, 2008, 112, 18376-18383.	1.5	88
33	A simple, rapid and single step method for fabricating superhydrophobic titanium surfaces with improved water bouncing and self cleaning properties. Applied Surface Science, 2020, 512, 145636.	3.1	88
34	Experimental evidence for reversible zippering of chains in magnetic nanofluids under external magnetic fields. Physical Review E, 2009, 80, 041401.	0.8	84
35	Room temperature ferromagnetism in vacuum annealed ZnFe2O4 nanoparticles. Applied Physics Letters, 2010, 96, .	1.5	83
36	Template-Free One-Step Electrodeposition Method for Fabrication of Robust Superhydrophobic Coating on Ferritic Steel with Self-Cleaning Ability and Superior Corrosion Resistance. Langmuir, 2019, 35, 12665-12679.	1.6	79

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37	Effect of Digestion Time on Size and Magnetic Properties of Spinel CoFe₂O₄ Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 590-596.	1.5	74
38	A facile method to control the size and magnetic properties of CoFe2O4 nanoparticles. Materials Chemistry and Physics, 2009, 115, 712-717.	2.0	72
39	Recent Advances in Magnetorheology of Ferrofluids (Magnetic Nanofluids)â€"A Critical Review. Journal of Nanofluids, 2016, 5, 1-22.	1.4	70
40	Three Distinct Scenarios under Polymer, Surfactant, and Colloidal Interaction. Macromolecules, 2003, 36, 9230-9236.	2.2	66
41	Thermal conductivity enhancement in organic phase change material (phenol-water system) upon addition of Al2O3, SiO2 and TiO2 nano-inclusions. Journal of Molecular Liquids, 2018, 269, 47-63.	2.3	66
42	Quantification of defects in composites and rubber materials using active thermography. Infrared Physics and Technology, 2012, 55, 191-199.	1.3	64
43	Robust nickel-reduced graphene oxide-myristic acid superhydrophobic coating on carbon steel using electrochemical codeposition and its corrosion resistance. Surface and Coatings Technology, 2020, 397, 125942.	2.2	64
44	Magnetic hyperthermia in magnetic nanoemulsions: Effects of polydispersity, particle concentration and medium viscosity. Journal of Magnetism and Magnetic Materials, 2017, 441, 310-327.	1.0	62
45	Graphene oxide-chitosan-silver composite coating on Cu-Ni alloy with enhanced anticorrosive and antibacterial properties suitable for marine applications. Progress in Organic Coatings, 2020, 139, 105444.	1.9	62
46	Superior thermal conductivity and photo-thermal conversion efficiency of carbon black loaded organic phase change material. Journal of Molecular Liquids, 2019, 285, 640-657.	2.3	61
47	Polymer-Induced Repulsive Forces: Exponential Scaling. Physical Review Letters, 1998, 80, 1778-1781.	2.9	59
48	Interaction between Emulsion Droplets in the Presence of Polymerâ^'Surfactant Complexes. Langmuir, 2002, 18, 4625-4631.	1.6	59
49	Role of Thermal Conductivity of Dispersed Nanoparticles on Heat Transfer Properties of Nanofluid. Industrial & Engineering Chemistry Research, 2014, 53, 980-988.	1.8	58
50	Magnetic field induced extinction of light in a suspension of Fe3O4 nanoparticles. Applied Physics Letters, 2008, 92, .	1.5	55
51	Probing of Field-Induced Structures and Tunable Rheological Properties of Surfactant Capped Magnetically Polarizable Nanofluids. Langmuir, 2013, 29, 110-120.	1.6	55
52	High performance green concrete (HPGC) with improved strength and chloride ion penetration resistance by synergistic action of fly ash, nanoparticles and corrosion inhibitor. Construction and Building Materials, 2019, 198, 299-312.	3.2	55
53	Light scattering in a magnetically polarizable nanoparticle suspension. Physical Review E, 2008, 78, 031404.	0.8	54
54	Effect of Nanoparticles Aggregation on Thermal and Electrical Conductivities of Nanofluids. Journal of Nanofluids, 2014, 3, 17-25.	1.4	54

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55	X-ray diffraction-based characterization of magnetite nanoparticles in presence of goethite and correlation with magnetic properties. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 39, 20-25.	1.3	53
56	Effect of Hydrophilic Silica Nanoparticles on the Magnetorheological Properties of Ferrofluids: A Study Using Opto-magnetorheometer. Langmuir, 2015, 31, 3343-3353.	1.6	51
57	Effect of divalent metal hydroxide solubility product on the size of ferrite nanoparticles. Materials Letters, 2007, 61, 4545-4548.	1.3	49
58	Sensing of Biologically Important Cations Such as Na⁺, K⁺, Ca²⁺, Cu²⁺, and Fe³⁺ Using Magnetic Nanoemulsions. Langmuir, 2013, 29, 4252-4258.	1.6	49
59	Synthesis, characterization and antimicrobial property of Fe3O4-Cys-HNQ nanocomplex, with l-cysteine molecule as a linker. RSC Advances, 2013, 3, 8047.	1.7	49
60	The effect of suspended Fe3O4 nanoparticle size on magneto-optical properties of ferrofluids. Optics Communications, 2015, 336, 278-285.	1.0	49
61	Stretching and Collapse of Neutral Polymer Layers under Association with Ionic Surfactants. Physical Review Letters, 2002, 89, 268301.	2.9	48
62	Self-assembly of surfactin in aqueous solution: Role of divalent counterions. Colloids and Surfaces B: Biointerfaces, 2014, 116, 396-402.	2.5	47
63	Kerr-effect investigations in a nematic liquid crystal. Physical Review A, 1992, 46, 2163-2165.	1.0	44
64	Enhanced seawater corrosion resistance of reinforcement in nanophase modified fly ash concrete. Construction and Building Materials, 2019, 221, 232-243.	3.2	44
65	Fabrication of superhydrophobic titanium surfaces with superior antibacterial properties using graphene oxide and silanized silica nanoparticles. Surface and Coatings Technology, 2020, 400, 126074.	2.2	44
66	A new optical technique for detection of defects in ferromagnetic materials and components. NDT and E International, 2000, 33, 289-295.	1.7	43
67	Measurement of thermal diffusivity of solids using infrared thermography. Materials Letters, 2008, 62, 2740-2742.	1.3	42
68	Experimental investigation of magnetic-field-induced aggregation kinetics in nonaqueous ferrofluids. Physical Review E, 2010, 82, 021402.	0.8	41
69	Effect of phosphate and oleic acid capping on structure, magnetic properties and thermal stability of iron oxide nanoparticles. Journal of Alloys and Compounds, 2016, 689, 959-968.	2.8	41
70	Assessment of long term stability of aqueous nanofluids using different experimental techniques. Journal of Molecular Liquids, 2016, 222, 350-358.	2.3	41
71	Magnetic hyperthermia study in water based magnetic fluids containing TMAOH coated Fe3O4 using infrared thermography. Infrared Physics and Technology, 2017, 80, 71-82.	1.3	41
72	A methanol sensor based on stimulus-responsive magnetic nanoemulsions. Sensors and Actuators B: Chemical, 2013, 185, 488-495.	4.0	40

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73	Enhancement in hyperthermia efficiency under in situ orientation of superparamagnetic iron oxide nanoparticles in dispersions. Applied Physics Letters, 2019, 115, .	1.5	40
74	Effect of polymer-surfactant association on colloidal force. Physical Review E, 2002, 66, 011406.	0.8	39
75	Competitive adsorption of polymer and surfactant at a liquid droplet interface and its effect on flocculation of emulsion. Journal of Colloid and Interface Science, 2012, 366, 88-95.	5.0	39
76	Magnetorheological properties of a magnetic nanofluid with dispersed carbon nanotubes. Physical Review E, 2014, 89, 022310.	0.8	39
77	Synthesis of Stable Magnetic Nanofluids of Different Particle Sizes. Journal of Nanofluids, 2012, 1, 85-92.	1.4	39
78	Colloidal force measurements in the presence of a polyelectrolyte. Journal Physics D: Applied Physics, 1997, 30, 2798-2803.	1.3	38
79	Size-controlled synthesis of superparamagnetic magnetite nanoclusters for heat generation in an alternating magnetic field. Journal of Molecular Liquids, 2019, 281, 315-323.	2.3	38
80	The interaction, stability and response to an external stimulus of iron oxide nanoparticleâ€“casein nanocomplexes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 406, 52-60.	2.3	37
81	Infrared thermography based defect detection in ferromagnetic specimens using a low frequency alternating magnetic field. Infrared Physics and Technology, 2014, 64, 125-133.	1.3	37
82	Uncertainties in the estimation of specific absorption rate during radiofrequency alternating magnetic field induced non-adiabatic heating of ferrofluids. Journal Physics D: Applied Physics, 2017, 50, 455005.	1.3	37
83	Facile fabrication of robust superhydrophobic aluminum surfaces with enhanced corrosion protection and antifouling properties. Progress in Organic Coatings, 2022, 162, 106560.	1.9	36
84	High temperature phase transformation studies in magnetite nanoparticles doped with Co2+ ion. Journal of Applied Physics, 2012, 112, .	1.1	34
85	Temperature and pH sensor based on functionalized magnetic nanofluid. Sensors and Actuators B: Chemical, 2018, 268, 338-349.	4.0	34
86	Pitting and stress corrosion cracking studies on AISI type 316N stainless steel weldments. Defence Technology, 2018, 14, 226-237.	2.1	34
87	Role of Adsorbing Moieties on Thermal Conductivity and Associated Properties of Nanofluids. Journal of Physical Chemistry C, 2013, 117, 9009-9019.	1.5	33
88	Experimental evidence for the significant role of initial cluster size and liquid confinement on thermo-physical properties of magnetic nanofluids under applied magnetic field. Journal of Molecular Liquids, 2018, 257, 1-11.	2.3	33
89	Magnetic nanofluid based non-enzymatic sensor for urea detection. Sensors and Actuators B: Chemical, 2018, 255, 720-728.	4.0	33
90	Effect of initial particle size on phase transformation temperature of surfactant capped Fe3O4 nanoparticles. Journal of Applied Physics, 2011, 109, .	1.1	32

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91	Effect of Nanoparticle Size, Morphology and Concentration on Specific Heat Capacity and Thermal Conductivity of Nanofluids. Journal of Nanofluids, 2015, 4, 302-309.	1.4	32
92	Optimal condition for fabricating mechanically durable superhydrophobic titanium surface by rapid breakdown anodization: Self cleaning and bouncing characteristics. Applied Surface Science, 2022, 585, 152628.	3.1	32
93	High temperature stability of surfactant capped CoFe2O4 nanoparticles. Materials Chemistry and Physics, 2011, 130, 1300-1306.	2.0	31
94	Functionalization of Iron Oxide Nanoparticles with Biosurfactants and Biocompatibility Studies. Journal of Biomedical Nanotechnology, 2013, 9, 751-764.	0.5	30
95	One-step microwave-assisted synthesis of water-dispersible Fe 3 O 4 magnetic nanoclusters for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2017, 439, 107-113.	1.0	30
96	Role of field-induced nanostructures, zippering and size polydispersity on effective thermal transport in magnetic fluids without significant viscosity enhancement. Journal of Magnetism and Magnetic Materials, 2017, 444, 29-42.	1.0	30
97	Corrosion inhibition of mild steel in 1â€‰M HCl usingTamarindus indicaextract: electrochemical, surface and spectroscopic studies. Journal of Adhesion Science and Technology, 2020, 34, 713-743.	1.4	30
98	A Simple, In-Expensive and Ultrasensitive Magnetic Nanofluid Based Sensor for Detection of Cations, Ethanol and Ammonia. Journal of Nanofluids, 2013, 2, 112-119.	1.4	29
99	Naked eye visualization of defects in ferromagnetic materials and components. NDT and E International, 2013, 60, 100-109.	1.7	28
100	An optical technique for fast and ultrasensitive detection of ammonia using magnetic nanofluids. Applied Physics Letters, 2013, 102, .	1.5	28
101	A facile approach to enhance the high temperature stability of magnetite nanoparticles with improved magnetic property. Journal of Applied Physics, 2013, 113, .	1.1	28
102	Infrared thermography based magnetic hyperthermia study in Fe3O4 based magnetic fluids. Infrared Physics and Technology, 2016, 78, 173-184.	1.3	28
103	Optical investigations in the various phases of an antiferroelectric liquid crystal. Physical Review E, 1995, 52, 1846-1856.	0.8	27
104	Comparison of light scattering from self assembled array of nanoparticle chains with cylinders. Optics Communications, 2012, 285, 1242-1247.	1.0	27
105	Preparation, characterization and X-ray attenuation property of Gd2O3-based nanocomposites. Applied Nanoscience (Switzerland), 2017, 7, 919-931.	1.6	27
106	Effect of orientational ordering of magnetic nanoemulsions immobilized in agar gel on magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2018, 451, 254-268.	1.0	27
107	The chloride-induced corrosion of a fly ash concrete with nanoparticles and corrosion inhibitor. Construction and Building Materials, 2021, 274, 122097.	3.2	27
108	Efficient Dye Degradation via Catalytic Persulfate Activation using Iron Oxide-Manganese Oxide Core-Shell Particle Doped with Transition Metal Ions. Journal of Molecular Liquids, 2021, 337, 116429.	2.3	27

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109	High magnetic fluid hyperthermia efficiency in copper ferrite nanoparticles prepared by solvothermal and hydrothermal methods. Journal of Magnetism and Magnetic Materials, 2021, 538, 168233.	1.0	27
110	Fabrication of a robust graphene oxide-nano SiO2-polydimethylsiloxane composite coating on carbon steel for marine applications. Progress in Organic Coatings, 2021, 161, 106462.	1.9	27
111	Probing of Field-Induced Structures and Their Dynamics in Ferrofluids Using Oscillatory Rheology. Langmuir, 2014, 30, 12171-12179.	1.6	26
112	Study of the tensile behavior of AISI type 316 stainless steel using acoustic emission and infrared thermography techniques. Journal of Materials Research and Technology, 2015, 4, 241-253.	2.6	26
113	Structural stability of ZnFe2O4 nanoparticles under different annealing conditions. Materials Chemistry and Physics, 2011, 128, 400-404.	2.0	25
114	Enhanced thermal stability of phosphate capped magnetite nanoparticles. Journal of Applied Physics, 2014, 115, 224304.	1.1	25
115	Thermal conductivity measurements in phase change materials under freezing in presence of nanoinclusions. Journal of Applied Physics, 2015, 118, .	1.1	25
116	Fabrication of silanized GO hybrid coating on 316L SS with enhanced corrosion resistance and antibacterial properties for marine applications. Surface and Coatings Technology, 2020, 402, 126295.	2.2	25
117	Condition monitoring of exhaust system blowers using infrared thermography. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 512-515.	0.3	24
118	Anomalous enhancement of corrosion resistance and antibacterial property of commercially pure Titanium (CP-Ti) with nanoscale rutile titania film. Corrosion Science, 2020, 172, 108678.	3.0	24
119	Thermal and rheological properties of magnetic nanofluids: Recent advances and future directions. Advances in Colloid and Interface Science, 2022, 307, 102729.	7.0	24
120	Non-destructive Evaluation of Friction Stir Welded Joints by X-ray Radiography and Infrared Thermography. Procedia Engineering, 2014, 86, 469-475.	1.2	23
121	A Simple Approach to Produce Stable Ferrofluids Without Surfactants and With High Temperature Stability. Journal of Nanofluids, 2013, 2, 94-103.	1.4	23
122	Viscous Sintering Phenomena in Liquid-Liquid Dispersions. Physical Review Letters, 2000, 84, 2018-2021.	2.9	22
123	Tunable Thermal Transport in Phase Change Materials Using Inverse Micellar Templating and Nanofillers. Journal of Physical Chemistry C, 2014, 118, 13972-13980.	1.5	22
124	Thermally tunable grating using thermo-responsive magnetic fluid. Optical Materials, 2017, 66, 117-121.	1.7	22
125	Enhanced corrosion protection of reinforcement steel with nanomaterial incorporated fly ash based cementitious coating. Construction and Building Materials, 2021, 275, 122130.	3.2	22
126	Synthesis, Characterization, Thermal Conductivity and Rheological Studies in Magnetite-Decorated Graphene Oxide Nanofluids. Journal of Nanofluids, 2018, 7, 11-20.	1.4	22

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127	Biosynthesis and Functionalization of Silver Nanoparticles Using Nigellasativa, Dioscorea alata and Ferula asafoetida. Science of Advanced Materials, 2014, 6, 1681-1690.	0.1	22
128	Size distribution of magnetic iron oxide nanoparticles using Warrenâ€“Averbach XRD analysis. Journal of Physics and Chemistry of Solids, 2012, 73, 867-872.	1.9	21
129	Non-enzymatic glucose detection using magnetic nanoemulsions. Applied Physics Letters, 2014, 105, 123110.	1.5	21
130	Microwave Assisted Synthesis of Ferrite Nanoparticles: Effect of Reaction Temperature on Particle Size and Magnetic Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 5768-5774.	0.9	21
131	A new ternary composite steel rebar coating for enhanced corrosion resistance in chloride environment. Construction and Building Materials, 2022, 320, 126307.	3.2	21
132	Electro-optic Kerr effect studies in liquids and binary liquid mixtures.. Journal of Molecular Liquids, 1991, 48, 85-97.	2.3	20
133	Effect of Surface Functionalization and Physical Properties of Nanoinclusions on Thermal Conductivity Enhancement in an Organic Phase Change Material. ACS Omega, 2018, 3, 9487-9504.	1.6	20
134	Enhanced magnetic heating efficiency at acidic pH for magnetic nanoemulsions stabilized with a weak polyelectrolyte. Journal of Colloid and Interface Science, 2020, 579, 582-597.	5.0	20
135	Rupturing of bitumen-in-water emulsions: experimental evidence for viscous sintering phenomena. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 176, 185-194.	2.3	19
136	Biocompatibility Studies of Functionalized CoFe2O4 Magnetic Nanoparticles. Current Nanoscience, 2011, 7, 371-376.	0.7	19
137	Multi-stimuli responsive nanofluid with easy-to-visualize structural color patterns. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 518, 98-108.	2.3	19
138	Magnetorheological properties of sodium sulphonate capped electrolytic iron based MR fluid: a comparison with CI based MR fluid. Smart Materials and Structures, 2017, 26, 025003.	1.8	19
139	Temporal evolution of equilibrium and non-equilibrium magnetic field driven microstructures in a magnetic fluid. Journal of Molecular Liquids, 2020, 304, 112737.	2.3	19
140	Fabrication of superhydrophobic and self cleaning<scp>PVAâ€‘silica</scp>fiber coating on<scp>304L SS</scp>surfaces by electrospinning. Journal of Applied Polymer Science, 2021, 138, 50118.	1.3	19
141	Long term antifouling performance of superhydrophobic surfaces in seawater environment: Effect of substrate material, hierarchical surface feature and surface chemistry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 647, 129194.	2.3	19
142	Transient Kerr response in a nematic liquid crystal. Journal Physics D: Applied Physics, 1992, 25, 1231-1234.	1.3	18
143	Thermogelling Properties of Triblock Copolymers in the Presence of Hydrophilic Fe₃O₄ Nanoparticles and Surfactants. Langmuir, 2012, 28, 12044-12053.	1.6	18
144	Detection of pathogenic gram negative bacteria using infrared thermography. Infrared Physics and Technology, 2012, 55, 485-490.	1.3	18

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145	Near infrared light absorption in magnetic nanoemulsion under external magnetic field. Optics Communications, 2014, 323, 54-60.	1.0	18
146	Infrared thermography based studies on mobile phone induced heating. Infrared Physics and Technology, 2015, 71, 242-251.	1.3	18
147	Impact of field ramp rate on magnetic field assisted thermal transport in ferrofluids. Journal of Molecular Liquids, 2020, 298, 112047.	2.3	18
148	Kerr effect studies in acetonitrile-aromatic hydrocarbon systems. Journal of Molecular Liquids, 1991, 50, 115-124.	2.3	17
149	Development of active magnetic bearings and ferrofluid seals toward oil free sodium pumps. Nuclear Engineering and Design, 2013, 265, 1166-1174.	0.8	17
150	Magnetic field dependant backscattering of light in water based ferrofluid containing polymer covered Fe3O4 nanoparticles. Journal of Applied Physics, 2013, 113, .	1.1	17
151	External magnetic field dependent light transmission and scattered speckle pattern in a magnetically polarizable oil-in-water nanoemulsion. Physica B: Condensed Matter, 2014, 454, 272-278.	1.3	17
152	Polydimethylsiloxaneâ€“graphene oxide nanocomposite coatings with improved anti-corrosion and anti-biofouling properties. Environmental Science and Pollution Research, 2021, 28, 7404-7422.	2.7	17
153	Segmentation of defects from radiography images by the histogram concavity threshold method. Insight: Non-Destructive Testing and Condition Monitoring, 2007, 49, 578-584.	0.3	16
154	Dependence of particle size on the effective thermal diffusivity and conductivity of nanofluids: role of base fluid properties. Heat and Mass Transfer, 2012, 48, 1783-1790.	1.2	16
155	Preparation of metal oxide nanoparticles of different sizes and morphologies, their characterization using small angle X-ray scattering and study of thermal properties. Materials Chemistry and Physics, 2014, 145, 213-221.	2.0	16
156	Nano-inclusion aided thermal conductivity enhancement in palmitic acid/di-methyl formamide phase change material for latent heat thermal energy storage. Thermochimica Acta, 2019, 678, 178309.	1.2	16
157	Efficacy of imidazolium and piperidinium based ionic liquids on inhibiting biofilm formation on titanium and carbon steel surfaces. Analytica Chimica Acta, 2020, 1126, 38-51.	2.6	16
158	Polymer nanocomposites containing Î²â€Bi₂O₃ and silica nanoparticles: Thermal stability, surface topography and Xâ€ray attenuation properties. Journal of Applied Polymer Science, 2020, 137, 49048.	1.3	16
159	Infrared thermography based studies on the effect of age on localized cold stress induced thermoregulation in human. Infrared Physics and Technology, 2016, 76, 592-602.	1.3	15
160	Thermal Stability and X-ray Attenuation Studies on Î±-Bi₂O₃, Î²-Bi₂O₃ and Bi Based Nanocomposites for Radiopaque Fabrics. Journal of Nanoscience and Nanotechnology, 2018, 18, 3969-3981.	0.9	15
161	Enhancement in field induced heating efficiency of TMAOH coated superparamagnetic Fe3O4 nanoparticles by texturing under a static bias field. Journal of Magnetism and Magnetic Materials, 2020, 498, 166138.	1.0	15
162	Gelation and Coarsening in Dispersions of Highly Viscous Droplets. Langmuir, 2001, 17, 3545-3552.	1.6	14

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163	Spectral response of magnetic nanofluid to toxic cations. Applied Physics Letters, 2013, 102, .	1.5	14
164	Influence of Ag⁺ Interaction on 1D Droplet Array Spacing and the Repulsive Forces between Stimuli-Responsive Nanoemulsion Droplets. Langmuir, 2014, 30, 10213-10220.	1.6	14
165	Irradiation performance of PFBR MOX fuel after 112GWd/t burn-up. Journal of Nuclear Materials, 2014, 449, 31-38.	1.3	14
166	Online monitoring of cutting tool temperature during micro-end milling using infrared thermography. Insight: Non-Destructive Testing and Condition Monitoring, 2015, 57, 9-17.	0.3	14
167	Superior thermal stability of polymer capped Fe₃O₄ magnetic nanoclusters. Journal of the American Ceramic Society, 2018, 101, 483-491.	1.9	14
168	Behavior of a Weak Polyelectrolyte at Oil-water Interfaces under Different Environmental Conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 610-621.	2.3	14
169	Field induced deformation of sessile ferrofluid droplets: Effect of particle size distribution on magnetowetting. Journal of Magnetism and Magnetic Materials, 2018, 466, 295-300.	1.0	14
170	Antibacterial and Corrosion Studies on Nanosecond Pulse Laser Textured 304ÂL Stainless Steel Surfaces. Lasers in Manufacturing and Materials Processing, 2019, 6, 332-343.	1.2	14
171	Determination of nanoscale titanium oxide thin film phase composition using X-ray photoelectron spectroscopy valence band analysis. Thin Solid Films, 2019, 681, 58-68.	0.8	14
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