John Philip

List of Publications by Citations

291 papers	9,543 citations	45 h-index	89 g-index
301 ext. papers	11,019 ext. citations	3.4 avg, IF	6.85 L-index

#	Paper	IF	Citations
291	A benchmark study on the thermal conductivity of nanofluids. *Journal of Applied Physics*, **2009**, 106, 094312	2.5	766
290	Medical applications of infrared thermography: A review. *Infrared Physics and Technology*, **2012**, 55, 221-235	2.7	595
289	Infrared thermography for condition monitoring A review. *Infrared Physics and Technology*, **2013**, 60, 35-55	2.7	460
288	Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures. *Applied Physics Letters*, **2007**, 91, 203108	3.4	276
287	Review on thermal properties of nanofluids: Recent developments. *Advances in Colloid and Interface Science*, **2015**, 225, 146-76	14.3	263
286	Effect of clustering on the thermal conductivity of nanofluids. *Materials Chemistry and Physics*, **2008** , 109, 50-55	4.4	219
285	Evidence for enhanced thermal conduction through percolating structures in nanofluids. *Nanotechnology*, **2008**, 19, 305706	3.4	194
284	Thermal properties of nanofluids. *Advances in Colloid and Interface Science*, **2012**, 183-184, 30-45	14.3	182
283	Nanofluid with tunable thermal properties. *Applied Physics Letters*, **2008**, 92, 043108	3.4	178
282	Effect of initial pH and temperature of iron salt solutions on formation of magnetite nanoparticles. *Materials Chemistry and Physics*, **2007**, 103, 168-175	4.4	176
281	Inversion of silica-stabilized emulsions induced by particle concentration. *Langmuir*, **2005**, 21, 3296-302	4	172
280	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	3.8	158
279	Role of microconvection induced by Brownian motion of nanoparticles in the enhanced thermal conductivity of stable nanofluids. *Applied Physics Letters*, **2009**, 94, 223101	3.4	143
278	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	3.8	140
277	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	4.9	135
276	Effect of digestion time and alkali addition rate on physical properties of magnetite nanoparticles. *Journal of Physical Chemistry B*, **2007**, 111, 7978-86	3.4	132
275	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	4.4	121

274	Tuning of Thermal Conductivity and Rheology of Nanofluids Using an External Stimulus. *Journal of Physical Chemistry C*, **2011**, 115, 20097-20104	3.8	117
273	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, 1386-92	4.1	113
272	Magnetically controllable nanofluid with tunable thermal conductivity and viscosity. *Applied Physics Letters*, **2009**, 95, 133112	3.4	100
271	Infrared thermal imaging for detection of peripheral vascular disorders. *Journal of Medical Physics*, **2009**, 34, 43-7	0.7	100
270	A tunable optical filter. *Measurement Science and Technology*, **2003**, 14, 1289-1294	2	96
269	Magnetic nanoparticles with enhanced □Fe2O3to □Fe2O3phase transition temperature. *Nanotechnology*, **2006**, 17, 5851-5857	3.4	94
268	Optical Properties and Applications of Ferrofluids□A Review. *Journal of Nanofluids*, **2012**, 1, 3-20	2.2	91
267	Effects of interaction of ionic and nonionic surfactants on self-assembly of PEO-PPO-PEO triblock copolymer in aqueous solution. *Journal of Physical Chemistry B*, **2012**, 116, 1499-507	3.4	87
266	Magnetic hyperthermia in phosphate coated iron oxide nanofluids. *Journal of Magnetism and Magnetic Materials*, **2016**, 407, 101-113	2.8	81
265	Influence of aggregation on thermal conductivity in stable and unstable nanofluids. *Applied Physics Letters*, **2010**, 97, 153113	3.4	79
264	Experimental evidence for reversible zippering of chains in magnetic nanofluids under external magnetic fields. *Physical Review E*, **2009**, 80, 041401	2.4	77
263	Effect of thermal annealing under vacuum on the crystal structure, size, and magnetic properties of ZnFe2O4 nanoparticles. *Journal of Applied Physics*, **2007**, 102, 054305	2.5	76
262	Effect of Surfactant Monolayer on Reduction of Fe3O4 Nanoparticles under Vacuum. *Journal of Physical Chemistry C*, **2008**, 112, 18376-18383	3.8	75
261	Nanofluid based optical sensor for rapid visual inspection of defects in ferromagnetic materials. *Applied Physics Letters*, **2012**, 100, 073104	3.4	72
260	Room temperature ferromagnetism in vacuum annealed ZnFe2O4 nanoparticles. *Applied Physics Letters*, **2010**, 96, 143106	3.4	69
259	Effect of Digestion Time on Size and Magnetic Properties of Spinel CoFe2O4 Nanoparticles. *Journal of Physical Chemistry C*, **2009**, 113, 590-596	3.8	63
258	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	5.1	59
257	A facile method to control the size and magnetic properties of CoFe2O4 nanoparticles. *Materials Chemistry and Physics*, **2009**, 115, 712-717	4.4	58

256	Three Distinct Scenarios under Polymer, Surfactant, and Colloidal Interaction. *Macromolecules*, **2003**, 36, 9230-9236	5.5	58
255	Recent Advances in Magnetorheology of Ferrofluids (Magnetic Nanofluids)A Critical Review. *Journal of Nanofluids*, **2016**, 5, 1-22	2.2	55
254	Interaction between Emulsion Droplets in the Presence of Polymer−Surfactant Complexes. *Langmuir*, **2002**, 18, 4625-4631	4	53
253	Quantification of defects in composites and rubber materials using active thermography. *Infrared Physics and Technology*, **2012**, 55, 191-199	2.7	52
252	Role of Thermal Conductivity of Dispersed Nanoparticles on Heat Transfer Properties of Nanofluid. *Industrial & Engineering Chemistry Research*, **2014**, 53, 980-988	3.9	51
251	Polymer-Induced Repulsive Forces: Exponential Scaling. *Physical Review Letters*, **1998**, 80, 1778-1781	7.4	51
250	Magnetic field induced extinction of light in a suspension of Fe3O4 nanoparticles. *Applied Physics Letters*, **2008**, 92, 221911	3.4	49
249	Magnetic hyperthermia in magnetic nanoemulsions: Effects of polydispersity, particle concentration and medium viscosity. *Journal of Magnetism and Magnetic Materials*, **2017**, 441, 310-327	2.8	48
248	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	7.9	47
247	Probing of field-induced structures and tunable rheological properties of surfactant capped magnetically polarizable nanofluids. *Langmuir*, **2013**, 29, 110-20	4	46
246	Light scattering in a magnetically polarizable nanoparticle suspension. *Physical Review E*, **2008**, 78, 031404	2.4	44
245	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	3	44
244	Stretching and collapse of neutral polymer layers under association with ionic surfactants. *Physical Review Letters*, **2002**, 89, 268301	7.4	43
243	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	6	42
242	Kerr-effect investigations in a nematic liquid crystal. *Physical Review A*, **1992**, 46, 2163-2165	2.6	42
241	Effect of Nanoparticles Aggregation on Thermal and Electrical Conductivities of Nanofluids. *Journal of Nanofluids*, **2014**, 3, 17-25	2.2	42
240	The effect of suspended Fe3O4 nanoparticle size on magneto-optical properties of ferrofluids. *Optics Communications*, **2015**, 336, 278-285	2	41
239	Sensing of biologically important cations such as Na(+), K(+), Ca(2+), Cu(2+), and Fe(3+) using magnetic nanoemulsions. *Langmuir*, **2013**, 29, 4252-8	4	41

238	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	4	40
237	Self-assembly of surfactin in aqueous solution: role of divalent counterions. *Colloids and Surfaces B: Biointerfaces*, **2014**, 116, 396-402	6	40
236	Experimental investigation of magnetic-field-induced aggregation kinetics in nonaqueous ferrofluids. *Physical Review E*, **2010**, 82, 021402	2.4	39
235	Effect of divalent metal hydroxide solubility product on the size of ferrite nanoparticles. *Materials Letters*, **2007**, 61, 4545-4548	3.3	39
234	Colloidal force measurements in the presence of a polyelectrolyte. *Journal Physics D: Applied Physics*, **1997**, 30, 2798-2803	3	38
233	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	6.7	38
232	Magnetic hyperthermia study in water based magnetic fluids containing TMAOH coated Fe3O4 using infrared thermography. *Infrared Physics and Technology*, **2017**, 80, 71-82	2.7	37
231	Effect of hydrophilic silica nanoparticles on the magnetorheological properties of ferrofluids: a study using opto-magnetorheometer. *Langmuir*, **2015**, 31, 3343-53	4	37
230	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	9.3	37
229	A new optical technique for detection of defects in ferromagnetic materials and components. *NDT and E International*, **2000**, 33, 289-295	4.1	37
228	Synthesis of Stable Magnetic Nanofluids of Different Particle Sizes. *Journal of Nanofluids*, **2012**, 1, 85-92	2.2	37
227	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	6.7	36
226	The interaction, stability and response to an external stimulus of iron oxide nanoparticle–casein nanocomplexes. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 406, 52-60	5.1	35
225	Effect of polymer-surfactant association on colloidal force. *Physical Review E*, **2002**, 66, 011406	2.4	35
224	Superior thermal conductivity and photo-thermal conversion efficiency of carbon black loaded organic phase change material. *Journal of Molecular Liquids*, **2019**, 285, 640-657	6	34
223	Infrared thermography based defect detection in ferromagnetic specimens using a low frequency alternating magnetic field. *Infrared Physics and Technology*, **2014**, 64, 125-133	2.7	34
222	Synthesis, characterization and antimicrobial property of Fe3O4-Cys-HNQ nanocomplex, with L-cysteine molecule as a linker. *RSC Advances*, **2013**, 3, 8047	3.7	34
221	Magnetorheological properties of a magnetic nanofluid with dispersed carbon nanotubes. *Physical Review E*, **2014**, 89, 022310	2.4	33

220	Role of Adsorbing Moieties on Thermal Conductivity and Associated Properties of Nanofluids. *Journal of Physical Chemistry C*, **2013**, 117, 9009-9019	3.8	33
219	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	5.7	32
218	A methanol sensor based on stimulus-responsive magnetic nanoemulsions. *Sensors and Actuators B: Chemical*, **2013**, 185, 488-495	8.5	31
217	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	4.8	31
216	Assessment of long term stability of aqueous nanofluids using different experimental techniques. *Journal of Molecular Liquids*, **2016**, 222, 350-358	6	30
215	Effect of initial particle size on phase transformation temperature of surfactant capped Fe3O4 nanoparticles. *Journal of Applied Physics*, **2011**, 109, 084303	2.5	28
214	Magnetic nanofluid based non-enzymatic sensor for urea detection. *Sensors and Actuators B: Chemical*, **2018**, 255, 720-728	8.5	27
213	High temperature phase transformation studies in magnetite nanoparticles doped with Co2+ ion. *Journal of Applied Physics*, **2012**, 112, 054320	2.5	27
212	Measurement of thermal diffusivity of solids using infrared thermography. *Materials Letters*, **2008**, 62, 2740-2742	3.3	27
211	Enhancement in hyperthermia efficiency under in situ orientation of superparamagnetic iron oxide nanoparticles in dispersions. *Applied Physics Letters*, **2019**, 115, 043102	3.4	26
210	High temperature stability of surfactant capped CoFe2O4 nanoparticles. *Materials Chemistry and Physics*, **2011**, 130, 1300-1306	4.4	26
209	Optical investigations in the various phases of an antiferroelectric liquid crystal. *Physical Review E*, **1995**, 52, 1846-1856	2.4	26
208	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	4.4	26
207	Temperature and pH sensor based on functionalized magnetic nanofluid. *Sensors and Actuators B: Chemical*, **2018**, 268, 338-349	8.5	25
206	Comparison of light scattering from self assembled array of nanoparticle chains with cylinders. *Optics Communications*, **2012**, 285, 1242-1247	2	25
205	Functionalization of iron oxide nanoparticles with biosurfactants and biocompatibility studies. *Journal of Biomedical Nanotechnology*, **2013**, 9, 751-64	4	25
204	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	6	24
203	An optical technique for fast and ultrasensitive detection of ammonia using magnetic nanofluids. *Applied Physics Letters*, **2013**, 102, 063107	3.4	24

202	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	3	24
201	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	2.8	24
200	A facile approach to enhance the high temperature stability of magnetite nanoparticles with improved magnetic property. *Journal of Applied Physics*, **2013**, 113, 044314	2.5	24
199	Enhanced seawater corrosion resistance of reinforcement in nanophase modified fly ash concrete. *Construction and Building Materials*, **2019**, 221, 232-243	6.7	23
198	Fabrication of superhydrophobic titanium surfaces with superior antibacterial properties using graphene oxide and silanized silica nanoparticles. *Surface and Coatings Technology*, **2020**, 400, 126074	4.4	23
197	Probing of field-induced structures and their dynamics in ferrofluids using oscillatory rheology. *Langmuir*, **2014**, 30, 12171-9	4	23
196	Size-controlled synthesis of superparamagnetic magnetite nanoclusters for heat generation in an alternating magnetic field. *Journal of Molecular Liquids*, **2019**, 281, 315-323	6	22
195	Pitting and stress corrosion cracking studies on AISI type 316N stainless steel weldments. *Defence Technology*, **2018**, 14, 226-237	3	22
194	Naked eye visualization of defects in ferromagnetic materials and components. *NDT and E International*, **2013**, 60, 100-109	4.1	22
193	Enhanced thermal stability of phosphate capped magnetite nanoparticles. *Journal of Applied Physics*, **2014**, 115, 224304	2.5	22
192	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	2.8	21
191	Effect of Nanoparticle Size, Morphology and Concentration on Specific Heat Capacity and Thermal Conductivity of Nanofluids. *Journal of Nanofluids*, **2015**, 4, 302-309	2.2	21
190	Thermal conductivity measurements in phase change materials under freezing in presence of nanoinclusions. *Journal of Applied Physics*, **2015**, 118, 094306	2.5	21
189	Infrared thermography based magnetic hyperthermia study in Fe3O4 based magnetic fluids. *Infrared Physics and Technology*, **2016**, 78, 173-184	2.7	21
188	Thermally tunable grating using thermo-responsive magnetic fluid. *Optical Materials*, **2017**, 66, 117-121	3.3	20
187	Tunable Thermal Transport in Phase Change Materials Using Inverse Micellar Templating and Nanofillers. *Journal of Physical Chemistry C*, **2014**, 118, 13972-13980	3.8	20
186	Microwave Assisted Synthesis of Ferrite Nanoparticles: Effect of Reaction Temperature on Particle Size and Magnetic Properties. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 5768-74	1.3	20
185	Non-destructive Evaluation of Friction Stir Welded Joints by X-ray Radiography and Infrared Thermography. *Procedia Engineering*, **2014**, 86, 469-475		20

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183	Electro-optic Kerr effect studies in liquids and binary liquid mixtures.. *Journal of Molecular Liquids*, **1991**, 48, 85-97	6	20
182	Corrosion inhibition of mild steel in 1 M HCl using Tamarindus indica extract: electrochemical, surface and spectroscopic studies. *Journal of Adhesion Science and Technology*, **2020**, 34, 713-743	2	20
181	Non-enzymatic glucose detection using magnetic nanoemulsions. *Applied Physics Letters*, **2014**, 105, 123110	3.4	19
180	Structural stability of ZnFe2O4 nanoparticles under different annealing conditions. *Materials Chemistry and Physics*, **2011**, 128, 400-404	4.4	19
179	Viscous sintering phenomena in liquid-liquid dispersions. *Physical Review Letters*, **2000**, 84, 2018-21	7.4	19
178	A Simple Approach to Produce Stable Ferrofluids Without Surfactants and With High Temperature Stability. *Journal of Nanofluids*, **2013**, 2, 94-103	2.2	19
177	Effect of orientational ordering of magnetic nanoemulsions immobilized in agar gel on magnetic hyperthermia. *Journal of Magnetism and Magnetic Materials*, **2018**, 451, 254-268	2.8	19
176	Size distribution of magnetic iron oxide nanoparticles using Warren□Averbach XRD analysis. *Journal of Physics and Chemistry of Solids*, **2012**, 73, 867-872	3.9	18
175	Thermogelling properties of triblock copolymers in the presence of hydrophilic Fe3O4 nanoparticles and surfactants. *Langmuir*, **2012**, 28, 12044-53	4	18
174	A Simple, In-Expensive and Ultrasensitive Magnetic Nanofluid Based Sensor for Detection of Cations, Ethanol and Ammonia. *Journal of Nanofluids*, **2013**, 2, 112-119	2.2	18
173	Synthesis, Characterization, Thermal Conductivity and Rheological Studies in Magnetite-Decorated Graphene Oxide Nanofluids. *Journal of Nanofluids*, **2018**, 7, 11-20	2.2	18
172	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	5.5	17
171	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	2.8	17
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169	Biocompatibility Studies of Functionalized CoFe2O4 Magnetic Nanoparticles. *Current Nanoscience*, **2011**, 7, 371-376	1.4	17
168	Rupturing of bitumen-in-water emulsions: experimental evidence for viscous sintering phenomena. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 176, 185-194	5.1	17
167	Kerr effect studies in acetonitrile-aromatic hydrocarbon systems. *Journal of Molecular Liquids*, **1991**, 50, 115-124	6	17

166	Transient Kerr response in a nematic liquid crystal. *Journal Physics D: Applied Physics*, **1992**, 25, 1231-1234	3	17
165	Multi-stimuli responsive nanofluid with easy-to-visualize structural color patterns. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 518, 98-108	5.1	16
164	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	3.9	16
163	Preparation, characterization and X-ray attenuation property of Gd2O3-based nanocomposites. *Applied Nanoscience (Switzerland)*, **2017**, 7, 919-931	3.3	16
162	Near infrared light absorption in magnetic nanoemulsion under external magnetic field. *Optics Communications*, **2014**, 323, 54-60	2	16
161	Segmentation of defects from radiography images by the histogram concavity threshold method. *Insight: Non-Destructive Testing and Condition Monitoring*, **2007**, 49, 578-584	1.3	16
160	Infrared thermography based studies on mobile phone induced heating. *Infrared Physics and Technology*, **2015**, 71, 242-251	2.7	15
159	Biosynthesis and Functionalization of Silver Nanoparticles Using Nigellasativa, Dioscorea alata and Ferula asafoetida. *Science of Advanced Materials*, **2014**, 6, 1681-1690	2.3	15
158	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	4.4	14
157	Detection of pathogenic gram negative bacteria using infrared thermography. *Infrared Physics and Technology*, **2012**, 55, 485-490	2.7	14
156	Gelation and Coarsening in Dispersions of Highly Viscous Droplets. *Langmuir*, **2001**, 17, 3545-3552	4	14
155	Impact of field ramp rate on magnetic field assisted thermal transport in ferrofluids. *Journal of Molecular Liquids*, **2020**, 298, 112047	6	14
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	2.2	13
153	Enhanced transmission with tunable Fano-like profile in magnetic nanofluids. *Physical Review E*, **2011**, 84, 051403	2.4	13
152	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	3.4	12
151	Electrophoretically deposited graphene oxide–polymer bilayer coating on Cu-Ni alloy with enhanced corrosion resistance in simulated chloride environment **2019**, 16, 1317-1335		12
150	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	9.3	12
149	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	2.7	12

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147	Spectral response of magnetic nanofluid to toxic cations. *Applied Physics Letters*, **2013**, 102, 163109	3.4	12
146	Development of active magnetic bearings and ferrofluid seals toward oil free sodium pumps. *Nuclear Engineering and Design*, **2013**, 265, 1166-1174	1.8	12
145	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	2.9	11
144	Temperature dependent light transmission in ferrofluids. *Optics Communications*, **2015**, 342, 224-229	2	11
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141	Influence of Ag+ interaction on 1D droplet array spacing and the repulsive forces between stimuli-responsive nanoemulsion droplets. *Langmuir*, **2014**, 30, 10213-20	4	11
140	Measurement of annular air-gap using active infrared thermography. *Infrared Physics and Technology*, **2013**, 61, 192-199	2.7	11
139	A Single Pot Approach for Synthesis of Phosphate Coated Iron Oxide Nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 2715-25	1.3	11
138	Transient kerr effect in nematic liquid crystal mixtures. *Journal of Molecular Liquids*, **1991**, 50, 215-223	6	11
137	SENSORS FOR MONITORING COMPONENTS, SYSTEMS AND PROCESSES. *International Journal on Smart Sensing and Intelligent Systems*, **2010**, 3, 61-74	0.4	11
136	Thermal Stability and X-ray Attenuation Studies on -Bi□□-Bi□□and Bi Based Nanocomposites for Radiopaque Fabrics. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 3969-3981	1.3	10
135	A spectroscopic approach to probe macromolecular conformational changes at interface under different environmental conditions: A case study with PAA adsorbed at oil-water Interface. *Journal of Molecular Liquids*, **2018**, 252, 30-39	6	10
134	A high-voltage pulse measuring system based on the Kerr effect. *Measurement Science and Technology*, **1991**, 2, 565-567	2	10
133	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	4.4	10
132	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	5.1	10
131	Phase identification in binary mixture of nanopowders from deconvoluted valence band spectra using X-ray photoelectron spectroscopy: Case study with iron oxide and titania polymorphs. *Applied Surface Science*, **2018**, 462, 932-943	6.7	10

130	Probing of Competitive Displacement Adsorption of Casein at Oil-in-Water Interface Using Equilibrium Force Distance Measurements. *Journal of Physical Chemistry B*, **2015**, 119, 6828-35	3.4	9
129	Field induced deformation of sessile ferrofluid droplets: Effect of particle size distribution on magnetowetting. *Journal of Magnetism and Magnetic Materials*, **2018**, 466, 295-300	2.8	9
128	Online monitoring of cutting tool temperature during micro-end milling using infrared thermography. *Insight: Non-Destructive Testing and Condition Monitoring*, **2015**, 57, 9-17	1.3	9
127	Effect of non-magnetic inclusions in magnetic specimens on defect detection sensitivity using active infrared thermography. *Infrared Physics and Technology*, **2015**, 68, 52-60	2.7	8
126	Anomalous enhancement of corrosion resistance and antibacterial property of commercially pure Titanium (CP-Ti) with nanoscale rutile titania film. *Corrosion Science*, **2020**, 172, 108678	6.8	8
125	Investigations on magnetic field induced optical transparency in magnetic nanofluids. *Optical Materials*, **2018**, 76, 97-105	3.3	8
124	Fungal resistance of nanomodifiers and corrosion inhibitor amended fly ash concrete. *International Biodeterioration and Biodegradation*, **2019**, 143, 104725	4.8	8
123	Microwave assisted synthesis of magnetite nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 5790-7	1.3	8
122	Irradiation Behavior of FBTR Mixed Carbide Fuel at Various Burn-ups. *Energy Procedia*, **2011**, 7, 227-233	2.3	8
121	Forces between colloidal droplets in the presence of a weak polyelectrolyte. *Bulletin of Materials Science*, **1999**, 22, 313-320	1.7	8
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119	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	2.8	8
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