

John Philip

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/619137/john-philip-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Probing concentration and time dependent conformational changes in poly acrylic acid stabilized magnetic nanoemulsion using magnetic chaining-based inter-droplet force measurement. <i>Colloids and Interface Science Communications</i> , 2022 , 47, 100592	5.4	1
290	Optimal condition for fabricating mechanically durable superhydrophobic titanium surface by rapid breakdown anodization: Self cleaning and bouncing characteristics. <i>Applied Surface Science</i> , 2022 , 585, 152628	6.7	4
289	A new ternary composite steel rebar coating for enhanced corrosion resistance in chloride environment. <i>Construction and Building Materials</i> , 2022 , 320, 126307	6.7	1
288	Studies on localized electrochemical activity of 304L SS-Zr-4 dissimilar joints using alternating current scanning electrochemical microscopy. <i>Applied Surface Science</i> , 2022 , 578, 151958	6.7	0
287	A simple approach for fabrication of superhydrophobic titanium surface with self-cleaning and bouncing properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 636, 128110 ^{5.1}	5.1	2
286	Facile fabrication of robust superhydrophobic aluminum surfaces with enhanced corrosion protection and antifouling properties. <i>Progress in Organic Coatings</i> , 2022 , 162, 106560	4.8	5
285	Inter-droplet force between magnetically polarizable Pickering oil-in-water nanoemulsions stabilized with EAO nanoparticles: Role of electrostatic and electric dipolar interactions. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1671-1686	9.3	3
284	Long term antifouling performance of superhydrophobic surfaces in seawater environment: Effect of substrate material, hierarchical surface feature and surface chemistry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 647, 129194	5.1	2
283	Magnetic nanoemulsion aided optical defect detection in carbon steel components: Effect of defect width variation on optical contrast. <i>Journal of Applied Physics</i> , 2022 , 131, 204702	2.5	0
282	Influence of long term Sodium Exposure on the Corrosion and Tensile Properties of AISI Type 316LN stainless steel and modified 9Cr-1Mo steel. <i>Journal of Nuclear Materials</i> , 2022 , 567, 153830	3.3	1
281	Tuning magnetic heating efficiency of colloidal dispersions of iron oxide nano-clusters by varying the surfactant concentration during solvothermal synthesis. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119444	6	1
280	Enhanced corrosion protection of reinforcement steel with nanomaterial incorporated fly ash based cementitious coating. <i>Construction and Building Materials</i> , 2021 , 275, 122130	6.7	6
279	The chloride-induced corrosion of a fly ash concrete with nanoparticles and corrosion inhibitor. <i>Construction and Building Materials</i> , 2021 , 274, 122097	6.7	7
278	In-Situ Detection of Early Corrosion of Ferritic Cr-Mo Steel in Aqueous Solutions of different Anions using Laser Raman Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 041508	3.9	
277	Multifiller nanocomposites containing gadolinium oxide and bismuth nanoparticles with enhanced X-ray attenuation property. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51252	2.9	3
276	Role of Oxygen Vacancy Formation Energy and Insulating Behavior in Darkening of White Amorphous TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16136-16146	3.8	1
275	Polydimethylsiloxane-graphene oxide nanocomposite coatings with improved anti-corrosion and anti-biofouling properties. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 7404-7422	5.1	6

274	Fabrication of superhydrophobic and self cleaning PVA-silica fiber coating on 304L SS surfaces by electrospinning. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50118	2.9	6
273	Synthesis of water dispersible phosphate capped CoFe ₂ O ₄ nanoparticles and its applications in efficient organic dye removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125755	5.1	5
272	Influence of size polydispersity on magnetic field tunable structures in magnetic nanofluids containing superparamagnetic nanoparticles. <i>Nanoscale Advances</i> , 2021 , 3, 3573-3592	5.1	6
271	Binary blended fly ash concrete with improved chemical resistance in natural and industrial environments. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 28107-28132	5.1	3
270	Poly acrylic acid stabilized magnetic nanoemulsions for visual defect detection: Effect of pH on detection sensitivity and colloidal stability. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116332	6	2
269	Improving Magneto-thermal Energy Conversion Efficiency of Magnetic Fluids Through External DC Magnetic Field Induced Orientational Ordering 2021 , 250-271		
268	Efficient Dye Degradation via Catalytic Persulfate Activation using Iron Oxide-Manganese Oxide Core-Shell Particle Doped with Transition Metal Ions. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116429	6	8
267	Graphene oxide/polyvinylpyrrolidone composite coating on 316L SS with superior antibacterial and anti-biofouling properties. <i>Progress in Organic Coatings</i> , 2021 , 158, 106356	4.8	4
266	High magnetic fluid hyperthermia efficiency in copper ferrite nanoparticles prepared by solvothermal and hydrothermal methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 538, 168233	2.8	3
265	Magnetic hyperthermia studies in magnetite ferrofluids based on bio-friendly oils extracted from Calophyllum inophyllum, Brassica juncea, Ricinus communis and Madhuca longifolia. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 537, 168134	2.8	4
264	Reconfiguring nanostructures in magnetic fluids using pH and magnetic stimulus for tuning optical properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 539, 168351	2.8	2
263	Fabrication of a robust graphene oxide-nano SiO ₂ -polydimethylsiloxane composite coating on carbon steel for marine applications. <i>Progress in Organic Coatings</i> , 2021 , 161, 106462	4.8	3
262	High-Temperature Air and Steam Oxidation and Oxide Layer Characteristics of Alloy 617. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 931-943	1.6	6
261	Studies on the Susceptibility of Modified 9Cr-1Mo Steel to Stress Corrosion Cracking in Sodium Hydroxide Using Slow Strain Rate Testing Technique. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 2172-2184	1.6	1
260	Enhancing the Intergranular Corrosion Resistance of High-Nitrogen-Containing 316L Stainless Steels by Grain Boundary Engineering via Thermomechanical Treatment. <i>Corrosion</i> , 2020 , 76, 835-842	1.8	0
259	Effect of Nitrogen on the Intergranular Stress Corrosion Cracking Resistance of 316LN Stainless Steel. <i>Corrosion</i> , 2020 , 76, 591-600	1.8	4
258	Fabrication of superhydrophobic titanium surfaces with superior antibacterial properties using graphene oxide and silanized silica nanoparticles. <i>Surface and Coatings Technology</i> , 2020 , 400, 126074	4.4	23
257	Anomalous enhancement of corrosion resistance and antibacterial property of commercially pure Titanium (CP-Ti) with nanoscale rutile titania film. <i>Corrosion Science</i> , 2020 , 172, 108678	6.8	8

256	Efficacy of imidazolium and piperidinium based ionic liquids on inhibiting biofilm formation on titanium and carbon steel surfaces. <i>Analytica Chimica Acta</i> , 2020 , 1126, 38-51	6.6	6
255	Observation of soft glassy behavior in a magnetic colloid exposed to an external magnetic field. <i>Soft Matter</i> , 2020 , 16, 7126-7136	3.6	5
254	Enhanced magnetic heating efficiency at acidic pH for magnetic nanoemulsions stabilized with a weak polyelectrolyte. <i>Journal of Colloid and Interface Science</i> , 2020 , 579, 582-597	9.3	12
253	A simple, rapid and single step method for fabricating superhydrophobic titanium surfaces with improved water bouncing and self cleaning properties. <i>Applied Surface Science</i> , 2020 , 512, 145636	6.7	36
252	Polymer nanocomposites containing Bi ₂ O ₃ and silica nanoparticles: Thermal stability, surface topography and X-ray attenuation properties. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49048	2.9	6
251	Temporal evolution of equilibrium and non-equilibrium magnetic field driven microstructures in a magnetic fluid. <i>Journal of Molecular Liquids</i> , 2020 , 304, 112737	6	11
250	Enhanced Thermal Protection of Iron Oxide Nanoparticle by Insulating Nanoporous Char Layer: Effect of Core Size and Char Layer Properties. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5702-5714	3.8	7
249	In Situ Raman Spectroscopic Analysis on Carbon Steel, Immersed in Aqueous Solutions at Different pH and Anions. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 2792-2805	1.6	3
248	Robust nickel-reduced graphene oxide-myristic acid superhydrophobic coating on carbon steel using electrochemical codeposition and its corrosion resistance. <i>Surface and Coatings Technology</i> , 2020 , 397, 125942	4.4	26
247	On the durability of Pt coated Ti electrodes for the electro-oxidative dissolution of spent nuclear fuels. <i>Corrosion Engineering Science and Technology</i> , 2020 , 55, 48-56	1.7	
246	Impact of field ramp rate on magnetic field assisted thermal transport in ferrofluids. <i>Journal of Molecular Liquids</i> , 2020 , 298, 112047	6	14
245	Enhancement in field induced heating efficiency of TMAOH coated superparamagnetic Fe ₃ O ₄ nanoparticles by texturing under a static bias field. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166138	2.8	8
244	Development of a Sulfamic Acid-Based Chemical Formulation for Effective Cleaning of Modified 9Cr1Mo Steel Steam Generator Tubes. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 343-352	1.2	
243	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. <i>Energy</i> , 2020 , 191, 116572	7.9	47
242	Graphene oxide-chitosan-silver composite coating on Cu-Ni alloy with enhanced anticorrosive and antibacterial properties suitable for marine applications. <i>Progress in Organic Coatings</i> , 2020 , 139, 105444	4.8	31
241	Atmospheric air oxidation of 9Cr-1Mo steel: Depth profiling of oxide layers using glow discharge optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 172, 105973	3.1	4
240	Fabrication of silanized GO hybrid coating on 316L SS with enhanced corrosion resistance and antibacterial properties for marine applications. <i>Surface and Coatings Technology</i> , 2020 , 402, 126295	4.4	10
239	Failure of Printed Circuit Boards during Storage and Service: Leaked Capacitors and White Residue. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 6402-6411	1.6	1

238	Enhanced biodeterioration and biofouling resistance of nanoparticles and inhibitor admixed fly ash based concrete in marine environments. <i>International Biodeterioration and Biodegradation</i> , 2020 , 155, 105088	4.8	3
237	A facile approach to synthesis of cobalt ferrite nanoparticles with a uniform ultrathin layer of silicon carbide for organic dye removal. <i>Journal of Molecular Liquids</i> , 2020 , 317, 114110	6	6
236	Rapid removal of rhodamine dye from aqueous solution using casein-surfactant complexes: role of casein-surfactant interaction. <i>Journal of Dispersion Science and Technology</i> , 2020 , 1-16	1.5	1
235	Infrared thermal imaging based study of localized cold stress induced thermoregulation in lower limbs: The role of age on the inversion time. <i>Journal of Thermal Biology</i> , 2020 , 94, 102781	2.9	0
234	Effect of Molybdenum on Pit Initiation Rate and Pit Growth Using Electrochemical Noise and Its Correlation with Confocal Laser Scanning Microscopic Studies. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 5337-5345	1.6	0
233	Visual detection of defects in carbon steel using magnetic nanoemulsions: Effect of stabilizing moieties on the defect detection sensitivity. <i>Sensors and Actuators A: Physical</i> , 2020 , 314, 112220	3.9	7
232	Oil-absorbent MnOx capped iron oxide nanoparticles: Synthesis, characterization and applications in oil recovery. <i>Journal of Molecular Liquids</i> , 2020 , 320, 114324	6	6
231	Corrosion inhibition of mild steel in 1 M HCl using Tamarindus indica extract: electrochemical, surface and spectroscopic studies. <i>Journal of Adhesion Science and Technology</i> , 2020 , 34, 713-743	2	20
230	Corrosion Evaluation of Buried Cast Iron Pipes Exposed to Fire Water System for 30 years. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 9-21	1.2	4
229	Template-Free One-Step Electrodeposition Method for Fabrication of Robust Superhydrophobic Coating on Ferritic Steel with Self-Cleaning Ability and Superior Corrosion Resistance. <i>Langmuir</i> , 2019 , 35, 12665-12679	4	40
228	Microstructural and phase characterisation of pyrolytic graphite coating by CVD using propane and methane as precursor. <i>Materials at High Temperatures</i> , 2019 , 36, 540-547	1.1	5
227	Development of Superhydrophobic Coating on Copper for Enhanced Corrosion Resistance in Chloride Medium. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 1133-1143	1.2	5
226	Efficient removal of methylene blue dye using cellulose capped Fe ₃ O ₄ nanofluids prepared using oxidation-precipitation method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 567, 193-204	5.1	59
225	Effect of surface charge screening on critical magnetic fields during field induced structural transitions in magnetic fluids. <i>Journal of Applied Physics</i> , 2019 , 125, 244301	2.5	7
224	Nano-inclusion aided thermal conductivity enhancement in palmitic acid/di-methyl formamide phase change material for latent heat thermal energy storage. <i>Thermochimica Acta</i> , 2019 , 678, 178309	2.9	11
223	Electrophoretically deposited graphene oxide-polymer bilayer coating on Cu-Ni alloy with enhanced corrosion resistance in simulated chloride environment 2019 , 16, 1317-1335		12
222	Enhanced seawater corrosion resistance of reinforcement in nanophase modified fly ash concrete. <i>Construction and Building Materials</i> , 2019 , 221, 232-243	6.7	23
221	A Novel Approach to Enhance High Temperature Thermal Stability of Superparamagnetic Fe ₃ O ₄ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 5624-5632	1.3	1

220	Effect of initial susceptibility and relaxation dynamics on radio frequency alternating magnetic field induced heating in superparamagnetic nanoparticle dispersions. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 486, 165267	2.8	7
219	Superior thermal conductivity and photo-thermal conversion efficiency of carbon black loaded organic phase change material. <i>Journal of Molecular Liquids</i> , 2019 , 285, 640-657	6	34
218	Determination of nanoscale titanium oxide thin film phase composition using X-ray photoelectron spectroscopy valence band analysis. <i>Thin Solid Films</i> , 2019 , 681, 58-68	2.2	7
217	Size-controlled synthesis of superparamagnetic magnetite nanoclusters for heat generation in an alternating magnetic field. <i>Journal of Molecular Liquids</i> , 2019 , 281, 315-323	6	22
216	Synergistic effect of Bi ₂ O ₃ and graphene/MWCNT in silicone-based polymeric matrices on diagnostic X-ray attenuation. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 1891-1913	3.3	6
215	In situ application of alternate potentials with chlorination synergistically enhanced biofouling control of titanium condenser materials. <i>International Biodeterioration and Biodegradation</i> , 2019 , 144, 104746	4.8	6
214	Enhancement in hyperthermia efficiency under in situ orientation of superparamagnetic iron oxide nanoparticles in dispersions. <i>Applied Physics Letters</i> , 2019 , 115, 043102	3.4	26
213	Pitting Corrosion Studies on Fusion Zone of Shielded Metal Arc Welded Type 316LN Stainless Steel Weldments. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 3089-3105	1.2	1
212	Antibacterial and Corrosion Studies on Nanosecond Pulse Laser Textured 304 L Stainless Steel Surfaces. <i>Lasers in Manufacturing and Materials Processing</i> , 2019 , 6, 332-343	2.1	6
211	Fungal resistance of nanomodifiers and corrosion inhibitor amended fly ash concrete. <i>International Biodeterioration and Biodegradation</i> , 2019 , 143, 104725	4.8	8
210	Porous Microcapsule-Based Regenerating Superhydrophobic Coating on 304L SS and Its Corrosion Properties. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7047-7057	1.6	4
209	Enhanced anti-microbial activity in green concrete specimens containing fly ash, nanophase modifiers, and corrosion inhibitor. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 13102	2.5	2
208	Adsorption of bovine serum albumin at oil-water interface in the presence of polyelectrolytes and nature of interaction forces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 566, 38-47	5.1	7
207	Microstructure, corrosion and mechanical properties characterization of AISI type 316L(N) stainless steel and modified 9Cr-1Mo steel after 40,000 h of dynamic sodium exposure at 525 °C. <i>Journal of Nuclear Materials</i> , 2019 , 516, 84-99	3.3	8
206	High performance green concrete (HPGC) with improved strength and chloride ion penetration resistance by synergistic action of fly ash, nanoparticles and corrosion inhibitor. <i>Construction and Building Materials</i> , 2019 , 198, 299-312	6.7	38
205	Thermal Stability and X-ray Attenuation Studies on Bi ₂ O ₃ -Bi ₂ O ₃ and Bi Based Nanocomposites for Radiopaque Fabrics. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 3969-3981	1.3	10
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. <i>Journal of Molecular Liquids</i> , 2018 , 257, 1-11	6	24
203	Magnetic hyperthermia in water based ferrofluids: Effects of initial susceptibility and size polydispersity on heating efficiency 2018 ,		3

202	A spectroscopic approach to probe macromolecular conformational changes at interface under different environmental conditions: A case study with PAA adsorbed at oil-water Interface. <i>Journal of Molecular Liquids</i> , 2018 , 252, 30-39	6	10
201	Investigations on magnetic field induced optical transparency in magnetic nanofluids. <i>Optical Materials</i> , 2018 , 76, 97-105	3.3	8
200	Behavior of a strong polyelectrolyte, poly(diallyldimethylammonium chloride) physisorbed at oil-water interface under different environments : A comparison with a weak polyelectrolyte. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 550, 209-221	5.1	7
199	Temperature and pH sensor based on functionalized magnetic nanofluid. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 338-349	8.5	25
198	Comparison of magnetic properties and high-temperature phase stability of phosphate- and oleic acid-capped iron oxide nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 593-608	3.3	6
197	Pitting and stress corrosion cracking studies on AISI type 316N stainless steel weldments. <i>Defence Technology</i> , 2018 , 14, 226-237	3	22
196	Superior thermal stability of polymer capped Fe ₃ O ₄ magnetic nanoclusters. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 483-491	3.8	11
195	Magnetic nanofluid based non-enzymatic sensor for urea detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 720-728	8.5	27
194	Field induced deformation of sessile ferrofluid droplets: Effect of particle size distribution on magnetowetting. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 466, 295-300	2.8	9
193	Thermal conductivity enhancement in organic phase change material (phenol-water system) upon addition of Al ₂ O ₃ , SiO ₂ and TiO ₂ nano-inclusions. <i>Journal of Molecular Liquids</i> , 2018 , 269, 47-63	6	42
192	Effect of Surface Functionalization and Physical Properties of Nano-inclusions on Thermal Conductivity Enhancement in an Organic Phase Change Material. <i>ACS Omega</i> , 2018 , 3, 9487-9504	3.9	16
191	Synthesis, Characterization, Thermal Conductivity and Rheological Studies in Magnetite-Decorated Graphene Oxide Nanofluids. <i>Journal of Nanofluids</i> , 2018 , 7, 11-20	2.2	18
190	Effect of orientational ordering of magnetic nanoemulsions immobilized in agar gel on magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 254-268	2.8	19
189	Behavior of a Weak Polyelectrolyte at Oil-water Interfaces under Different Environmental Conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 610-621	5.1	10
188	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. <i>Applied Surface Science</i> , 2018 , 462, 932-943	6.7	10
187	Stability and rheological properties of hybrid Al ₂ O ₃ nanofluids with cationic polyelectrolyte additives. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 555, 63-71	5.1	7
186	Multi-stimuli responsive nanofluid with easy-to-visualize structural color patterns. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 518, 98-108	5.1	16
185	Thermally tunable grating using thermo-responsive magnetic fluid. <i>Optical Materials</i> , 2017 , 66, 117-121	3.3	20

184	Nanofluids for Efficient Heat Transfer Applications 2017 , 997-1028		3
183	One-step microwave-assisted synthesis of water-dispersible Fe ₃ O ₄ magnetic nanoclusters for hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 439, 107-113	2.8	21
182	Magnetic hyperthermia study in water based magnetic fluids containing TMAOH coated Fe ₃ O ₄ using infrared thermography. <i>Infrared Physics and Technology</i> , 2017 , 80, 71-82	2.7	37
181	Magnetic hyperthermia in magnetic nanoemulsions: Effects of polydispersity, particle concentration and medium viscosity. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 441, 310-327	2.8	48
180	Infrared Thermography for Detection of Diabetic Neuropathy and Vascular Disorder. <i>Series in Bioengineering</i> , 2017 , 217-247	0.7	6
179	Magnetorheological properties of sodium sulphonate capped electrolytic iron based MR fluid: a comparison with CI based MR fluid. <i>Smart Materials and Structures</i> , 2017 , 26, 025003	3.4	12
178	Uncertainties in the estimation of specific absorption rate during radiofrequency alternating magnetic field induced non-adiabatic heating of ferrofluids. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 455005	3	24
177	Role of field-induced nanostructures, zippering and size polydispersity on effective thermal transport in magnetic fluids without significant viscosity enhancement. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 444, 29-42	2.8	24
176	Development of X-ray protective garments from rare earth-modified natural rubber composites. <i>Journal of Elastomers and Plastics</i> , 2017 , 49, 527-544	1.6	7
175	Preparation, characterization and X-ray attenuation property of Gd ₂ O ₃ -based nanocomposites. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 919-931	3.3	16
174	Functionalization of Cobalt Ferrite Nanoparticles with Biotin and Lawsone and Their Use in Rhodamine Dye and Lead Ion Removal. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5284-5293 ¹⁻³		2
173	Synthesis of Silver Capped Fe ₃ O ₄ Nanofluids Using Microwave Assisted Approach. <i>Journal of Nanofluids</i> , 2017 , 6, 1-10	2.2	8
172	Infrared thermography based magnetic hyperthermia study in Fe ₃ O ₄ based magnetic fluids. <i>Infrared Physics and Technology</i> , 2016 , 78, 173-184	2.7	21
171	Effect of phosphate and oleic acid capping on structure, magnetic properties and thermal stability of iron oxide nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 959-968	5.7	32
170	Assessment of long term stability of aqueous nanofluids using different experimental techniques. <i>Journal of Molecular Liquids</i> , 2016 , 222, 350-358	6	30
169	Studies on temperature evolution during fatigue cycling of Ni-Al bronze (NAB) alloy using infrared thermography. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2016 , 58, 70-81	1.3	2
168	Path length tunable light-matter interaction in magnetic nanofluid based field-induced photonic crystal-glass structure. <i>New Journal of Physics</i> , 2016 , 18, 103037	2.9	3
167	Effect of Precipitating Agent and Solvent Polarity on the Size and Magnetic Properties of Magnetite Nanoparticles Prepared by Microwave Assisted Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9591-9602	1.3	7

166	Infrared thermography based studies on the effect of age on localized cold stress induced thermoregulation in human. <i>Infrared Physics and Technology</i> , 2016 , 76, 592-602	2.7	12
165	Magnetic hyperthermia in phosphate coated iron oxide nanofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 407, 101-113	2.8	81
164	Macromolecular conformation changes at oil-water interface in the presence of cations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 497, 90-100	5.1	4
163	Recent Advances in Magnetorheology of Ferrofluids (Magnetic Nanofluids) A Critical Review. <i>Journal of Nanofluids</i> , 2016 , 5, 1-22	2.2	55
162	Effect of Polymeric Additives on Thermal and Electrical Conductivity of Nanofluids. <i>Journal of Nanofluids</i> , 2016 , 5, 661-668	2.2	7
161	Temperature dependent light transmission in ferrofluids. <i>Optics Communications</i> , 2015 , 342, 224-229	2	11
160	Infrared thermography based studies on mobile phone induced heating. <i>Infrared Physics and Technology</i> , 2015 , 71, 242-251	2.7	15
159	Dimensional measurements on 112GWd/t irradiated MOX fuel pins using X-ray radiography. <i>Annals of Nuclear Energy</i> , 2015 , 83, 8-13	1.7	3
158	Effect of Nanoparticle Size, Morphology and Concentration on Specific Heat Capacity and Thermal Conductivity of Nanofluids. <i>Journal of Nanofluids</i> , 2015 , 4, 302-309	2.2	21
157	Effect of hydrophilic silica nanoparticles on the magnetorheological properties of ferrofluids: a study using opto-magnetorheometer. <i>Langmuir</i> , 2015 , 31, 3343-53	4	37
156	Probing of Competitive Displacement Adsorption of Casein at Oil-in-Water Interface Using Equilibrium Force Distance Measurements. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6828-35	3.4	9
155	Study of the tensile behavior of AISI type 316 stainless steel using acoustic emission and infrared thermography techniques. <i>Journal of Materials Research and Technology</i> , 2015 , 4, 241-253	5.5	17
154	Review on thermal properties of nanofluids: Recent developments. <i>Advances in Colloid and Interface Science</i> , 2015 , 225, 146-76	14.3	263
153	Thermal conductivity measurements in phase change materials under freezing in presence of nano-inclusions. <i>Journal of Applied Physics</i> , 2015 , 118, 094306	2.5	21
152	Influence of Casting Defects on S _N Fatigue Behavior of Ni-Al Bronze. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 708-725	2.3	1
151	Effect of non-magnetic inclusions in magnetic specimens on defect detection sensitivity using active infrared thermography. <i>Infrared Physics and Technology</i> , 2015 , 68, 52-60	2.7	8
150	The effect of suspended Fe ₃ O ₄ nanoparticle size on magneto-optical properties of ferrofluids. <i>Optics Communications</i> , 2015 , 336, 278-285	2	41
149	Infrared thermography-based studies on hydrotesting of stainless steel pressure vessels. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2015 , 57, 406-413	1.3	4

148	Microwave Assisted Synthesis of Ferrite Nanoparticles: Effect of Reaction Temperature on Particle Size and Magnetic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 5768-74	1.3	20
147	Online monitoring of cutting tool temperature during micro-end milling using infrared thermography. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2015 , 57, 9-17	1.3	9
146	A Single Pot Approach for Synthesis of Phosphate Coated Iron Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2715-25	1.3	11
145	Nanotechnology in Energy Technology 2015 , 381-404		
144	Preparation of metal oxide nanoparticles of different sizes and morphologies, their characterization using small angle X-ray scattering and study of thermal properties. <i>Materials Chemistry and Physics</i> , 2014 , 145, 213-221	4.4	14
143	Role of Thermal Conductivity of Dispersed Nanoparticles on Heat Transfer Properties of Nanofluid. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 980-988	3.9	51
142	External magnetic field dependent light transmission and scattered speckle pattern in a magnetically polarizable oil-in-water nanoemulsion. <i>Physica B: Condensed Matter</i> , 2014 , 454, 272-278	2.8	17
141	Tunable Thermal Transport in Phase Change Materials Using Inverse Micellar Templating and Nanofillers. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13972-13980	3.8	20
140	Infrared thermography based defect detection in ferromagnetic specimens using a low frequency alternating magnetic field. <i>Infrared Physics and Technology</i> , 2014 , 64, 125-133	2.7	34
139	Magnetorheological properties of a magnetic nanofluid with dispersed carbon nanotubes. <i>Physical Review E</i> , 2014 , 89, 022310	2.4	33
138	Influence of Ag ⁺ interaction on 1D droplet array spacing and the repulsive forces between stimuli-responsive nanoemulsion droplets. <i>Langmuir</i> , 2014 , 30, 10213-20	4	11
137	Irradiation performance of PFBR MOX fuel after 112 GWd/t burn-up. <i>Journal of Nuclear Materials</i> , 2014 , 449, 31-38	3.3	12
136	Evaluation of dissimilar friction stir lap joints using digital X-ray radiography. <i>Science and Technology of Welding and Joining</i> , 2014 , 19, 125-132	3.7	6
135	Microwave assisted synthesis of magnetite nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 5790-7	1.3	8
134	Effect of cation trapping on thermal stability of magnetite nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4114-23	1.3	5
133	Enhanced thermal stability of phosphate capped magnetite nanoparticles. <i>Journal of Applied Physics</i> , 2014 , 115, 224304	2.5	22
132	Non-enzymatic glucose detection using magnetic nanoemulsions. <i>Applied Physics Letters</i> , 2014 , 105, 123110	3.1	19
131	Probing of field-induced structures and their dynamics in ferrofluids using oscillatory rheology. <i>Langmuir</i> , 2014 , 30, 12171-9	4	23

130	Non-destructive Evaluation of Friction Stir Welded Joints by X-ray Radiography and Infrared Thermography. <i>Procedia Engineering</i> , 2014 , 86, 469-475		20
129	Near infrared light absorption in magnetic nanoemulsion under external magnetic field. <i>Optics Communications</i> , 2014 , 323, 54-60	2	16
128	Self-assembly of surfactin in aqueous solution: role of divalent counterions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 116, 396-402	6	40
127	Effect of Nanoparticles Aggregation on Thermal and Electrical Conductivities of Nanofluids. <i>Journal of Nanofluids</i> , 2014 , 3, 17-25	2.2	42
126	Microwave Assisted Synthesis of Ferrite Nanoparticles and Nanofluids with Tunable Curie Temperature. <i>Journal of Nanofluids</i> , 2014 , 3, 210-216	2.2	2
125	Effect of Surfactant on the Size, Zeta Potential and Rheology of Alumina Nanofluids. <i>Journal of Nanofluids</i> , 2014 , 3, 328-335	2.2	7
124	Biosynthesis and Functionalization of Silver Nanoparticles Using Nigellasativa, Dioscorea alata and Ferula asafoetida. <i>Science of Advanced Materials</i> , 2014 , 6, 1681-1690	2.3	15
123	Probing of field-induced structures and tunable rheological properties of surfactant capped magnetically polarizable nanofluids. <i>Langmuir</i> , 2013 , 29, 110-20	4	46
122	Role of Adsorbing Moieties on Thermal Conductivity and Associated Properties of Nanofluids. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9009-9019	3.8	33
121	Thermal conduction in polymeric nanofluids under mean field approximation: role of interfacial adsorption layers. <i>Physica Scripta</i> , 2013 , 88, 015602	2.6	5
120	Effective thermal conductivity of condensed polymeric nanofluids (nanosolids) controlled by diffusion and interfacial scattering 2013 , 81, 849-864		1
119	Naked eye visualization of defects in ferromagnetic materials and components. <i>NDT and E International</i> , 2013 , 60, 100-109	4.1	22
118	An optical technique for fast and ultrasensitive detection of ammonia using magnetic nanofluids. <i>Applied Physics Letters</i> , 2013 , 102, 063107	3.4	24
117	Measurement of annular air-gap using active infrared thermography. <i>Infrared Physics and Technology</i> , 2013 , 61, 192-199	2.7	11
116	Sensing of biologically important cations such as Na(+), K(+), Ca(2+), Cu(2+), and Fe(3+) using magnetic nanoemulsions. <i>Langmuir</i> , 2013 , 29, 4252-8	4	41
115	A facile approach to enhance the high temperature stability of magnetite nanoparticles with improved magnetic property. <i>Journal of Applied Physics</i> , 2013 , 113, 044314	2.5	24
114	Synthesis, characterization and antimicrobial property of Fe ₃ O ₄ -Cys-HNQ nanocomplex, with L-cysteine molecule as a linker. <i>RSC Advances</i> , 2013 , 3, 8047	3.7	34
113	Spectral response of magnetic nanofluid to toxic cations. <i>Applied Physics Letters</i> , 2013 , 102, 163109	3.4	12

112	Infrared thermography for condition monitoring [A review]. <i>Infrared Physics and Technology</i> , 2013 , 60, 35-55	2.7	460
111	A methanol sensor based on stimulus-responsive magnetic nanoemulsions. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 488-495	8.5	31
110	Development of active magnetic bearings and ferrofluid seals toward oil free sodium pumps. <i>Nuclear Engineering and Design</i> , 2013 , 265, 1166-1174	1.8	12
109	Magnetic field dependant backscattering of light in water based ferrofluid containing polymer covered Fe ₃ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2013 , 113, 054902	2.5	17
108	Simulation of beam hardening in X-ray tomography and its correction using linearisation and pre-filtering approaches. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2013 , 55, 540-547	1.3	0
107	Effect of exposure and scattering on signal-to-noise ratio for improved defect sensitivity in X-ray radiography. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2013 , 55, 548-552	1.3	0
106	Functionalization of iron oxide nanoparticles with biosurfactants and biocompatibility studies. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 751-64	4	25
105	Highly crystalline core-shell FeCo-CoFe ₂ O ₄ nanostructures. <i>EPJ Applied Physics</i> , 2013 , 63, 30401	1.1	3
104	A Simple Approach to Produce Stable Ferrofluids Without Surfactants and With High Temperature Stability. <i>Journal of Nanofluids</i> , 2013 , 2, 94-103	2.2	19
103	Rheological Properties of Magnetorheological Fluid with Silica Nanoparticles Stabilizers [A Comparison with Ferrofluid. <i>Journal of Nanofluids</i> , 2013 , 2, 75-84	2.2	7
102	A Simple, In-Expensive and Ultrasensitive Magnetic Nanofluid Based Sensor for Detection of Cations, Ethanol and Ammonia. <i>Journal of Nanofluids</i> , 2013 , 2, 112-119	2.2	18
101	Magnetic Nanofluid Based Approach for Imaging Defects. <i>Journal of Nanofluids</i> , 2013 , 2, 165-174	2.2	2
100	Transmitted Light Intensity and the Speckle Pattern in a Poly-Acrylic Acid Stabilized Ferrofluid in the Presence of an External Magnetic Field. <i>Journal of Nanofluids</i> , 2013 , 2, 237-248	2.2	4
99	Quantification of defects in composites and rubber materials using active thermography. <i>Infrared Physics and Technology</i> , 2012 , 55, 191-199	2.7	52
98	Competitive adsorption of polymer and surfactant at a liquid droplet interface and its effect on flocculation of emulsion. <i>Journal of Colloid and Interface Science</i> , 2012 , 366, 88-95	9.3	37
97	Size distribution of magnetic iron oxide nanoparticles using Warren [A]verbach XRD analysis. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 867-872	3.9	18
96	Comparison of light scattering from self assembled array of nanoparticle chains with cylinders. <i>Optics Communications</i> , 2012 , 285, 1242-1247	2	25
95	Optical Properties and Applications of Ferrofluids [A Review. <i>Journal of Nanofluids</i> , 2012 , 1, 3-20	2.2	91

94	Dependence of particle size on the effective thermal diffusivity and conductivity of nanofluids: role of base fluid properties. <i>Heat and Mass Transfer</i> , 2012 , 48, 1783-1790	2.2	13
93	Thermal properties of nanofluids. <i>Advances in Colloid and Interface Science</i> , 2012 , 183-184, 30-45	14.3	182
92	Medical applications of infrared thermography: A review. <i>Infrared Physics and Technology</i> , 2012 , 55, 221-235	2.35	595
91	The interaction, stability and response to an external stimulus of iron oxide nanoparticle-basein nanocomplexes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 406, 52-60	5.1	35
90	Nanofluid based optical sensor for rapid visual inspection of defects in ferromagnetic materials. <i>Applied Physics Letters</i> , 2012 , 100, 073104	3.4	72
89	Effects of interaction of ionic and nonionic surfactants on self-assembly of PEO-PPO-PEO triblock copolymer in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1499-507	3.4	87
88	Thermogelling properties of triblock copolymers in the presence of hydrophilic Fe ₃ O ₄ nanoparticles and surfactants. <i>Langmuir</i> , 2012 , 28, 12044-53	4	18
87	Detection of pathogenic gram negative bacteria using infrared thermography. <i>Infrared Physics and Technology</i> , 2012 , 55, 485-490	2.7	14
86	High temperature phase transformation studies in magnetite nanoparticles doped with Co ²⁺ ion. <i>Journal of Applied Physics</i> , 2012 , 112, 054320	2.5	27
85	Role of surface charge, morphology, and adsorbed moieties on thermal conductivity enhancement of nanofluids. <i>Applied Physics Letters</i> , 2012 , 101, 173113	3.4	2
84	Studies Using Force, Hydrodynamic Size and Zeta Potential Measurements on Complexation of Polymer and Surfactant on Emulsion Interface. <i>Journal of Colloid Science and Biotechnology</i> , 2012 , 1, 51-59		2
83	Synthesis of Stable Magnetic Nanofluids of Different Particle Sizes. <i>Journal of Nanofluids</i> , 2012 , 1, 85-92	2.2	37
82	Nature of Alkali Used in the Co-Precipitation of Superparamagnetic Nanoparticles on Their Thermal Stability and the Properties of Ferrofluids. <i>Journal of Nanofluids</i> , 2012 , 1, 128-136	2.2	5
81	Thermal Conductivity and Rheological Behaviour of Al-alloy Dispersed Ethylene Glycol Based Nanofluids. <i>Journal of ASTM International</i> , 2012 , 9, 104435		1
80	Thermal Conductivity and Rheological Behaviour of Al-alloy Dispersed Ethylene Glycol Based Nanofluids 2012 , 104-121		
79	Enhancement in maghemite to hematite phase transition temperature with very low fraction of Co (II) doping 2011 ,		3
78	Tuning of Thermal Conductivity and Rheology of Nanofluids Using an External Stimulus. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20097-20104	3.8	117
77	Irradiation Behavior of FBTR Mixed Carbide Fuel at Various Burn-ups. <i>Energy Procedia</i> , 2011 , 7, 227-233	2.3	8

76	Temperature-induced gelation in dilute nanofluids. <i>Langmuir</i> , 2011 , 27, 12361-7	4	4
75	Structural stability of ZnFe ₂ O ₄ nanoparticles under different annealing conditions. <i>Materials Chemistry and Physics</i> , 2011 , 128, 400-404	4.4	19
74	High temperature stability of surfactant capped CoFe ₂ O ₄ nanoparticles. <i>Materials Chemistry and Physics</i> , 2011 , 130, 1300-1306	4.4	26
73	Enhanced transmission with tunable Fano-like profile in magnetic nanofluids. <i>Physical Review E</i> , 2011 , 84, 051403	2.4	13
72	Synthesis, characterization, and thermal property measurement of nano-Al ₉₅ Zn ₅ dispersed nanofluid prepared by a two-step process. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 3783-3788 ¹³⁵	4.9	135
71	Biocompatibility Studies of Functionalized CoFe ₂ O ₄ Magnetic Nanoparticles. <i>Current Nanoscience</i> , 2011 , 7, 371-376	1.4	17
70	Improved estimation of density of boron carbide control rods using digital X-ray radiography. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2011 , 53, 258-262	1.3	1
69	Effect of initial particle size on phase transformation temperature of surfactant capped Fe ₃ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2011 , 109, 084303	2.5	28
68	Correlation between plantar foot temperature and diabetic neuropathy: a case study by using an infrared thermal imaging technique. <i>Journal of Diabetes Science and Technology</i> , 2010 , 4, 1386-92	4.1	113
67	Influence of aggregation on thermal conductivity in stable and unstable nanofluids. <i>Applied Physics Letters</i> , 2010 , 97, 153113	3.4	79
66	Synthesis of Aqueous and Nonaqueous Iron Oxide Nanofluids and Study of Temperature Dependence on Thermal Conductivity and Viscosity. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18825-18833	3.8	158
65	Influence of Co ²⁺ Ion Concentration on the Size, Magnetic Properties, and Purity of CoFe ₂ O ₄ Spinel Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6334-6341	3.8	140
64	Experimental investigation of magnetic-field-induced aggregation kinetics in nonaqueous ferrofluids. <i>Physical Review E</i> , 2010 , 82, 021402	2.4	39
63	Automatic detection and sizing of pores from radiographic images using the Hough transform. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2010 , 52, 540-547	1.3	0
62	Thermal diffusion in dilute nanofluids investigated by photothermal interferometry. <i>Journal of Physics: Conference Series</i> , 2010 , 214, 012035	0.3	5
61	Non-destructive evaluation tool to identify genuine shaligram. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2010 , 52, 13-15	1.3	
60	Micelle based synthesis of cobalt ferrite nanoparticles and its characterization using Fourier Transform Infrared Transmission Spectrometry and Thermogravimetry. <i>Materials Chemistry and Physics</i> , 2010 , 124, 264-269	4.4	121
59	Room temperature ferromagnetism in vacuum annealed ZnFe ₂ O ₄ nanoparticles. <i>Applied Physics Letters</i> , 2010 , 96, 143106	3.4	69

58	SENSORS FOR MONITORING COMPONENTS, SYSTEMS AND PROCESSES. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2010 , 3, 61-74	0.4	11
57	Experimental evidence for reversible zippering of chains in magnetic nanofluids under external magnetic fields. <i>Physical Review E</i> , 2009 , 80, 041401	2.4	77
56	Magnetically controllable nanofluid with tunable thermal conductivity and viscosity. <i>Applied Physics Letters</i> , 2009 , 95, 133112	3.4	100
55	A facile method to control the size and magnetic properties of CoFe ₂ O ₄ nanoparticles. <i>Materials Chemistry and Physics</i> , 2009 , 115, 712-717	4.4	58
54	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 094313	3.7	766
53	Role of microconvection induced by Brownian motion of nanoparticles in the enhanced thermal conductivity of stable nanofluids. <i>Applied Physics Letters</i> , 2009 , 94, 223101	3.4	143
52	Effect of Digestion Time on Size and Magnetic Properties of Spinel CoFe ₂ O ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 590-596	3.8	63
51	Infrared thermal imaging for detection of peripheral vascular disorders. <i>Journal of Medical Physics</i> , 2009 , 34, 43-7	0.7	100
50	Effect of clustering on the thermal conductivity of nanofluids. <i>Materials Chemistry and Physics</i> , 2008 , 109, 50-55	4.4	219
49	Measurement of thermal diffusivity of solids using infrared thermography. <i>Materials Letters</i> , 2008 , 62, 2740-2742	3.3	27
48	Effect of Surfactant Monolayer on Reduction of Fe ₃ O ₄ Nanoparticles under Vacuum. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18376-18383	3.8	75
47	Light scattering in a magnetically polarizable nanoparticle suspension. <i>Physical Review E</i> , 2008 , 78, 031404	4.4	44
46	Evidence for enhanced thermal conduction through percolating structures in nanofluids. <i>Nanotechnology</i> , 2008 , 19, 305706	3.4	194
45	Image processing of radiographs of tube-to-tubesheet weld joints for enhanced detectability of defects. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2008 , 50, 298-303	1.3	4
44	Enhanced sensitivity detection of defects in gas turbine blades of aero-engine and hairpin tubes of heavy water plant using microfocal radiography. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2008 , 50, 560-563	1.3	4
43	Condition monitoring of exhaust system blowers using infrared thermography. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2008 , 50, 512-515	1.3	20
42	Magnetic field induced extinction of light in a suspension of Fe ₃ O ₄ nanoparticles. <i>Applied Physics Letters</i> , 2008 , 92, 221911	3.4	49
41	Nanofluid with tunable thermal properties. <i>Applied Physics Letters</i> , 2008 , 92, 043108	3.4	178

40	Effect of thermal annealing under vacuum on the crystal structure, size, and magnetic properties of ZnFe ₂ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2007 , 102, 054305	2.5	76
39	X-ray diffraction-based characterization of magnetite nanoparticles in presence of goethite and correlation with magnetic properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 39, 20-25	3	44
38	Effect of initial pH and temperature of iron salt solutions on formation of magnetite nanoparticles. <i>Materials Chemistry and Physics</i> , 2007 , 103, 168-175	4.4	176
37	Effect of divalent metal hydroxide solubility product on the size of ferrite nanoparticles. <i>Materials Letters</i> , 2007 , 61, 4545-4548	3.3	39
36	Effect of digestion time and alkali addition rate on physical properties of magnetite nanoparticles. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7978-86	3.4	132
35	Segmentation of defects from radiography images by the histogram concavity threshold method. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2007 , 49, 578-584	1.3	16
34	Improved estimation of radial and axial gap of fuel pins from radiography images using image processing tools. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2007 , 49, 701-707	1.3	
33	Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures. <i>Applied Physics Letters</i> , 2007 , 91, 203108	3.4	276
32	Magnetic nanoparticles with enhanced α -Fe ₂ O ₃ to γ -Fe ₂ O ₃ phase transition temperature. <i>Nanotechnology</i> , 2006 , 17, 5851-5857	3.4	94
31	X-ray radiography for development of defect-free electrochemical hydrogen meter for sodium systems. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2006 , 48, 597-602	1.3	
30	Inversion of silica-stabilized emulsions induced by particle concentration. <i>Langmuir</i> , 2005 , 21, 3296-302	4	172
29	A tunable optical filter. <i>Measurement Science and Technology</i> , 2003 , 14, 1289-1294	2	96
28	Three Distinct Scenarios under Polymer, Surfactant, and Colloidal Interaction. <i>Macromolecules</i> , 2003 , 36, 9230-9236	5.5	58
27	Laser based etching technique for metallography and ceramography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 338, 17-23	5.3	2
26	Effect of polymer-surfactant association on colloidal force. <i>Physical Review E</i> , 2002 , 66, 011406	2.4	35
25	Stretching and collapse of neutral polymer layers under association with ionic surfactants. <i>Physical Review Letters</i> , 2002 , 89, 268301	7.4	43
24	Interaction between Emulsion Droplets in the Presence of Polymer-Surfactant Complexes. <i>Langmuir</i> , 2002 , 18, 4625-4631	4	53
23	Rupturing of bitumen-in-water emulsions: experimental evidence for viscous sintering phenomena. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 176, 185-194	5.1	17

22	Gelation and Coarsening in Dispersions of Highly Viscous Droplets. <i>Langmuir</i> , 2001 , 17, 3545-3552	4	14
21	A new optical technique for detection of defects in ferromagnetic materials and components. <i>NDT and E International</i> , 2000 , 33, 289-295	4.1	37
20	Viscous sintering phenomena in liquid-liquid dispersions. <i>Physical Review Letters</i> , 2000 , 84, 2018-21	7.4	19
19	An optical technique for the detection of surface defects in ferromagnetic samples. <i>Measurement Science and Technology</i> , 1999 , 10, N71-N75	2	6
18	Forces between colloidal droplets in the presence of a weak polyelectrolyte. <i>Bulletin of Materials Science</i> , 1999 , 22, 313-320	1.7	8
17	Polymer-Induced Repulsive Forces: Exponential Scaling. <i>Physical Review Letters</i> , 1998 , 80, 1778-1781	7.4	51
16	Colloidal force measurements in the presence of a polyelectrolyte. <i>Journal Physics D: Applied Physics</i> , 1997 , 30, 2798-2803	3	38
15	Optical investigations in the various phases of an antiferroelectric liquid crystal. <i>Physical Review E</i> , 1995 , 52, 1846-1856	2.4	26
14	Anisotropic Rayleigh scattering investigations in smectic A liquid crystal phases. <i>Journal of Chemical Physics</i> , 1994 , 101, 6301-6317	3.9	3
13	Comparison between the tilted SmC?* and SmC?* phases of MHPOBC studied by optical techniques. <i>Journal De Physique II</i> , 1994 , 4, 2149-2159		7
12	Third-order Susceptibility Measurements in a Nematic Liquid Crystal K15. <i>Journal of Modern Optics</i> , 1993 , 40, 163-168	1.1	1
11	Nonresonant third-order susceptibility measurements in the nematic liquid crystal K18. <i>Optical and Quantum Electronics</i> , 1993 , 25, 157-162	2.4	5
10	Transient Kerr response in a nematic liquid crystal. <i>Journal Physics D: Applied Physics</i> , 1992 , 25, 1231-1234		17
9	Nonresonant third order susceptibility measurements in a nematic liquid crystal-PCH-5. <i>Journal of Applied Physics</i> , 1992 , 72, 1495-1497	2.5	5
8	Kerr-effect investigations in a nematic liquid crystal. <i>Physical Review A</i> , 1992 , 46, 2163-2165	2.6	42
7	Electrooptical Kerr constant and third-order susceptibility measurements in nematic liquid crystals and their mixtures. <i>Optical and Quantum Electronics</i> , 1992 , 24, 825-832	2.4	4
6	Electro-optic Kerr effect studies in liquids and binary liquid mixtures.. <i>Journal of Molecular Liquids</i> , 1991 , 48, 85-97	6	20
5	Kerr effect studies in acetonitrile-aromatic hydrocarbon systems. <i>Journal of Molecular Liquids</i> , 1991 , 50, 115-124	6	17

4	Kerr effect in binary liquid mixtures. <i>Journal of Molecular Liquids</i> , 1991 , 50, 207-214	6	5
3	Transient kerr effect in nematic liquid crystal mixtures. <i>Journal of Molecular Liquids</i> , 1991 , 50, 215-223	6	11
2	A high-voltage pulse measuring system based on the Kerr effect. <i>Measurement Science and Technology</i> , 1991 , 2, 565-567	2	10
1	Evaluation of Thermal Cycling Performance of Plasma Sprayed Alumina Coating on Inconel 600 with Different Bond Coats. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	0