Elena V Timofeeva

List of Publications by Citations

36 papers	2,390 citations	20 h-index	39 g-index
39 ext. papers	2,674 ext. citations	4.6 avg, IF	4.94 L-index

#	Paper	IF	Citations
36	Particle shape effects on thermophysical properties of alumina nanofluids. *Journal of Applied Physics*, **2009**, 106, 014304	2.5	527
35	Thermal conductivity and particle agglomeration in alumina nanofluids: experiment and theory. *Physical Review E*, **2007**, 76, 061203	2.4	495
34	Particle size and interfacial effects on thermo-physical and heat transfer characteristics of water-based alpha-SiC nanofluids. *Nanotechnology*, **2010**, 21, 215703	3.4	186
33	Heat transfer to a silicon carbide/water nanofluid. *International Journal of Heat and Mass Transfer*, **2009**, 52, 3606-3612	4.9	134
32	Nanofluids for heat transfer: an engineering approach. *Nanoscale Research Letters*, **2011**, 6, 182	5	121
31	Base fluid and temperature effects on the heat transfer characteristics of SiC in ethylene glycol/H2O and H2O nanofluids. *Journal of Applied Physics*, **2011**, 109, 014914	2.5	118
30	Improving the heat transfer efficiency of synthetic oil with silica nanoparticles. *Journal of Colloid and Interface Science*, **2011**, 364, 71-9	9.3	90
29	Comparative review of turbulent heat transfer of nanofluids. *International Journal of Heat and Mass Transfer*, **2012**, 55, 5380-5396	4.9	88
28	Tribological Effects of BN and MoS2 Nanoparticles Added to Polyalphaolefin Oil in Piston Skirt/Cylinder Liner Tests. *Tribology Letters*, **2012**, 47, 91-102	2.8	67
27	Nanofluids with encapsulated tin nanoparticles for advanced heat transfer and thermal energy storage. *International Journal of Energy Research*, **2014**, 38, 51-59	4.5	59
26	Surface Modification Approach to TiO2 Nanofluids with High Particle Concentration, Low Viscosity, and Electrochemical Activity. *ACS Applied Materials & Interfaces*, **2015**, 7, 20538-47	9.5	58
25	Potential-Resolved In Situ X-ray Absorption Spectroscopy Study of Sn and SnO2 Nanomaterial Anodes for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2016**, 120, 5331-5339	3.8	47
24	Use of metallic nanoparticles to improve the thermophysical properties of organic heat transfer fluids used in concentrated solar power. *Solar Energy*, **2014**, 105, 468-478	6.8	46
23	In Situ XAFS Study of the Capacity Fading Mechanisms in ZnO Anodes for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2015**, 162, A1935-A1939	3.9	41
22	Pumping power of nanofluids in a flowing system. *Journal of Nanoparticle Research*, **2011**, 13, 931-937	2.3	39
21	In Situ EXAFS-Derived Mechanism of Highly Reversible Tin Phosphide/Graphite Composite Anode for Li-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702134	21.8	38
20	Use of encapsulated zinc particles in a eutectic chloride salt to enhance thermal energy storage capacity for concentrated solar power. *Renewable Energy*, **2015**, 80, 508-516	8.1	29

19	Investigations of heat transfer of copper-in-Therminol 59 nanofluids. *International Journal of Heat and Mass Transfer*, **2013**, 64, 1196-1204	4.9	29
18	In Situ Ru K-Edge X-ray Absorption Spectroscopy Study of Methanol Oxidation Mechanisms on Model Submonolayer Ru on Pt Nanoparticle Electrocatalyst. *Journal of Physical Chemistry C*, **2013**, 117, 18904-18912	3.8	21
17	Mechanisms and models of effective thermal conductivities of nanofluids. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 4824-49	1.3	21
16	Controlled synthesis of MnO2 nanoparticles for aqueous battery cathodes: polymorphism□apacity correlation. *Journal of Materials Science*, **2017**, 52, 8107-8118	4.3	16
15	Electroactive nanofluids with high solid loading and low viscosity for rechargeable redox flow batteries. *Journal of Applied Electrochemistry*, **2017**, 47, 593-605	2.6	16
14	Raman spectroscopic evidence of the bronze-like recharging behavior for conducting films deposited from isopolytungstates. *Electrochimica Acta*, **2005**, 50, 1693-1702	6.7	16
13	Mutual indirect probing of platinized platinum/tungstate nanostructural features. *Journal of Solid State Electrochemistry*, **2004**, 8, 778-785	2.6	15
12	Structural Studies of Capacity Activation and Reduced Voltage Fading in Li-Rich, Mn-Ni-Fe Composite Oxide Cathode. *Journal of the Electrochemical Society*, **2018**, 165, A71-A78	3.9	14
11	In Situ X-ray Absorption Spectroscopy Study of the Capacity Fading Mechanism in Hybrid Sn3O2(OH)2/Graphite Battery Anode Nanomaterials. *Chemistry of Materials*, **2015**, 27, 574-580	9.6	13
10	Adlayers of Keggin Type Polytungstate Anions on Platinum: Negligible Electrochemical Signatures and Manifestations of □Molecular UPD□ *Journal of Physical Chemistry B*, **2004**, 108, 17096-17105	3.4	11
9	Engineering nanofluid electrodes: controlling rheology and electrochemical activity of □Fe2O3 nanoparticles. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	10
8	Role of crystal lattice templating and galvanic coupling in enhanced reversible capacity of Ni(OH)2/Co(OH)2 core/shell battery cathode. *Electrochimica Acta*, **2017**, 258, 684-693	6.7	8
7	Nanoscale MnO2 cathodes for Li-ion batteries: effect of thermal and mechanical processing. *Journal of Power Sources*, **2020**, 448, 227374	8.9	7
6	Effect of Sub-nanoparticle Architecture on Cycling Performance of MnO2 Battery Cathodes through Thermal Tuning of Polymorph Composition. *Crystal Growth and Design*, **2019**, 19, 1584-1591	3.5	5
5	Effective Thermal Conductivity Models for Carbon Nanotube-Based Nanofluids. *Journal of Nanofluids*, **2013**, 2, 69-73	2.2	3
4	Reaction Joining of Aluminum-Doped Lanthanum Strontium Manganese Oxide to Yttria-Stabilized Tetragonal Zirconia for Gas Sensor Applications. *International Journal of Applied Ceramic Technology*, **2012**, 9, 725-732	2	1
3	In situ XAS study of the local structure of the nano-Li2FeSiO4/C cathode. *JPhys Energy*, **2021**, 3, 034015	4.9	1
2	Roles of Mn and Ni in Li-rich Mn-Ni-Fe oxide cathodes. *Materials Today Communications*, **2021**, 26, 101693	3.5	0

1 Pumping Power of 50/50 Mixtures of Ethylene Glycol/Water Containing SiC Nanoparticles. *Ceramic Engineering and Science Proceedings*,147-152 0.1