Shriram S Sonawane

List of Publications by Citations

84 papers	2,014 citations	26 h-index	42 g-index
90 ext. papers	2,450 ext. citations	3.9 avg, IF	5.93 L-index

#	Paper	IF	Citations
84	Ultrasound assisted biodiesel production from sesame (Sesamum indicum L.) oil using barium hydroxide as a heterogeneous catalyst: Comparative assessment of prediction abilities between response surface methodology (RSM) and artificial neural network (ANN). *Ultrasonics Sonochemistry* , **2015**, 26, 218-228	8.9	131
83	Influence of CuO nanoparticles in enhancing the thermal conductivity of water and monoethylene glycol based nanofluids. *International Communications in Heat and Mass Transfer*, **2012**, 39, 665-669	5.8	114
82	Enhancement effect of hematite and nickel nanoparticles on biohydrogen production from dairy wastewater. *International Journal of Hydrogen Energy*, **2015**, 40, 4502-4511	6.7	105
81	Experimental study of Fe2O3/water and Fe2O3/ethylene glycol nanofluid heat transfer enhancement in a shell and tube heat exchanger. *International Communications in Heat and Mass Transfer*, **2016**, 78, 277-284	5.8	85
80	Effect of sonication time on enhancement of effective thermal conductivity of nano TiO2–water, ethylene glycol, and paraffin oil nanofluids and models comparisons. *Journal of Experimental Nanoscience*, **2015**, 10, 310-322	1.9	79
79	Experimental study of thermal conductivity, heat transfer and friction factor of Al 2 O 3 based nanofluid. *International Communications in Heat and Mass Transfer*, **2018**, 90, 1-10	5.8	79
78	Experimental investigations and theoretical determination of thermal conductivity and viscosity of TiO 2 –ethylene glycol nanofluid. *International Communications in Heat and Mass Transfer*, **2016**, 73, 54-61	5.8	70
77	Ultrasonic pretreatment for an enhancement of biohydrogen production from complex food waste. *International Journal of Hydrogen Energy*, **2014**, 39, 7721-7729	6.7	64
76	Experimental study of thermal conductivity and convective heat transfer enhancement using CuO and TiO 2 nanoparticles. *International Communications in Heat and Mass Transfer*, **2016**, 76, 98-107	5.8	63
75	Influence of nickel and hematite nanoparticle powder on the production of biohydrogen from complex distillery wastewater in batch fermentation. *International Journal of Hydrogen Energy*, **2015**, 40, 10734-10743	6.7	62
74	Heat transfer study on concentric tube heat exchanger using TiO2–water based nanofluid. *International Communications in Heat and Mass Transfer*, **2014**, 57, 163-169	5.8	59
73	Study on concentric tube heat exchanger heat transfer performance using Al2O3 –water based nanofluids. *International Communications in Heat and Mass Transfer*, **2013**, 49, 60-68	5.8	53
72	Ultrasound assisted two-stage biodiesel synthesis from non-edible Schleichera triguga oil using heterogeneous catalyst: Kinetics and thermodynamic analysis. *Ultrasonics Sonochemistry*, **2016**, 29, 288-98	8.9	50
71	Water to Nanofluids Heat Transfer in Concentric Tube Heat Exchanger: Experimental Study. *Procedia Engineering*, **2013**, 51, 318-323		48
70	Optimization of conditions for an enhancement of thermal conductivity and minimization of viscosity of ethylene glycol based Fe3O4 nanofluid. *Applied Thermal Engineering*, **2016**, 109, 121-129	5.8	44
69	Optimization of conditions for hydrogen production from complex dairy wastewater by anaerobic sludge using desirability function approach. *International Journal of Hydrogen Energy*, **2013**, 38, 6607-6617	6.7	44
68	Reactive extraction of picolinic and nicotinic acid by natural non-toxic solvent. *Separation and Purification Technology*, **2013**, 120, 296-303	8.3	43

67	Response surface optimization and artificial neural network modeling of biodiesel production from crude mahua (Madhuca indica) oil under supercritical ethanol conditions using CO2 as co-solvent. *RSC Advances*, **2015**, 5, 69702-69713	3.7	42
66	Natural Nontoxic Solvents for Recovery of Picolinic Acid by Reactive Extraction. *Industrial & Engineering Chemistry Research*, **2011**, 50, 13526-13537	3.9	40
65	Evaluation of ultrasonication as a treatment strategy for enhancement of biohydrogen production from complex distillery wastewater and process optimization. *International Journal of Hydrogen Energy*, **2014**, 39, 10041-10050	6.7	37
64	Thermo Physical Characterization of Paraffin based Fe3O4 Nanofluids. *Procedia Engineering*, **2013**, 51, 342-346		37
63	Kinetic analysis of biohydrogen production from complex dairy wastewater under optimized condition. *International Journal of Hydrogen Energy*, **2014**, 39, 1306-1314	6.7	36
62	Novel hybrid system based on hydrodynamic cavitation for treatment of dye waste water: A first report on bench scale study. *Journal of Environmental Chemical Engineering*, **2017**, 5, 1874-1884	6.8	32
61	Experimental study on pool boiling and Critical Heat Flux enhancement of metal oxides based nanofluid. *International Communications in Heat and Mass Transfer*, **2018**, 96, 37-42	5.8	32
60	Influence of functionalized calcium carbonate nanofillers on the properties of melt-extruded polycarbonate composites. *Chemical Engineering Communications*, **2018**, 205, 492-505	2.2	30
59	Enhanced biohydrogen production from dark fermentation of complex dairy wastewater by sonolysis. *International Journal of Hydrogen Energy*, **2015**, 40, 9942-9951	6.7	27
58	An environment friendly approach for heavy metal removal from industrial wastewater using chitosan based biosorbent: A review. *Sustainable Energy Technologies and Assessments*, **2021**, 43, 100951	4.7	26
57	Influence of Nano-Inorganic Particles on Properties of Epoxy Nanocomposites. *Polymer-Plastics Technology and Engineering*, **2011**, 50, 758-761		25
56	Influence of organo-montomorillonite on mechanical and rheological properties of polyamide nanocomposites. *Applied Clay Science*, **2009**, 46, 222-225	5.2	25
55	Esterification of propionic acid with isopropyl alcohol over ion exchange resins: Optimization and kinetics. *Korean Journal of Chemical Engineering*, **2017**, 34, 249-258	2.8	23
54	Comparative Study of the Mechanical and Thermal Properties of Polyamide-66 Filled with Commercial and Nano-Mg(OH)2 Particles. *Polymer-Plastics Technology and Engineering*, **2010**, 49, 474-480		20
53	Application of RSM and ANN for the prediction and optimization of thermal conductivity ratio of water based Fe2O3 coated SiC hybrid nanofluid. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105354	5.8	20
52	Synthesis of TiO2 Water Nanofluids for its Viscosity and Dispersion Stability Study. *Journal of Nano Research*, **2013**, 24, 26-33	1	19
51	Comparative performance evaluation of fly ash-based hybrid nanofluids in microchannel-based direct absorption solar collector. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1713-1726	4.1	19
50	Effect of Nano-CaCO3 on Mechanical and Thermal Properties of Polyamide Nanocomposites. *Polymer-Plastics Technology and Engineering*, **2009**, 49, 38-44		18

49	Recent Advances in Ultrasound-Assisted Synthesis of Nano-Emulsions and their Industrial Applications. *Current Pharmaceutical Biotechnology*, **2021**, 22, 1748-1758	2.6	16
48	Intensified Heat Transfer Rate With the Use of Nanofluids **2018**, 739-750		15
47	Process Intensification Approach Using Microreactors for Synthesizing Nanomaterials-A Critical Review. *Nanomaterials*, **2021**, 11,	5.4	15
46	Copper-doped zinc oxide nanoparticles: Influence on thermal, thermo mechanical, and tribological properties of polycarbonate. *Polymer Composites*, **2018**, 39, E1398-E1406	3	14
45	Enhancement of Esterification Reaction by Pervaporation Reactor: An Intensifying Approach. *Procedia Engineering*, **2013**, 51, 330-334		14
44	Process optimization and kinetic modeling for esterification of propionic acid with benzyl alcohol on ion-exchange resin catalyst. *Korean Journal of Chemical Engineering*, **2017**, 34, 987-996	2.8	13
43	Effect of Commercial & Nano-Ca3(PO4)2 on Mechanical and Thermal Properties of Polyamide Composites. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 265-271		13
42	Degradation Kinetics of Polycarbonate Composites: Kinetic Parameters and Artificial Neural Network. *Chemical and Biochemical Engineering Quarterly*, **2018**, 32, 151-165	1.8	13
41	Intensification of Esterification Reaction of Lactic Acid with Iso-propanol using Pervaporation Reactor. *Procedia Engineering*, **2013**, 51, 456-460		12
40	Study on thermal property enhancement of MWCNT based polypropylene (PP) nanocomposites. *Materials Today: Proceedings*, **2020**, 27, 550-555	1.4	12
39	Convective Heat Transfer of Metal Oxide-Based Nanofluids in a Shell and Tube Heat Exchanger. *Springer Proceedings in Energy*, **2018**, 183-192	0.2	12
38	Nanomaterial Synthesis: Chemical and Biological Route and Applications **2019**, 27-51		11
37	Optimization and Kinetic Studies on Biodiesel Production from Kusum (Schleichera triguga) Oil Using Response Surface Methodology. *Journal of Oleo Science*, **2015**, 64, 987-97	1.6	11
36	Statistical modelling for the Ultrasonic photodegradation of Rhodamine B dye using aqueous based Bi-metal doped TiO2 supported montmorillonite hybrid nanofluid via RSM. *Sustainable Energy Technologies and Assessments*, **2021**, 44, 100980	4.7	11
35	The sono-photocatalytic performance of a novel water based Ti+4 coated Al(OH)3-MWCNTs hybrid nanofluid for dye fragmentation. *International Journal of Chemical Reactor Engineering*, **2021**, 19, 901-912	1.2	10
34	Synthesis of cenosphere supported heterogeneous catalyst and its performance in esterification reaction. *Chemical Engineering Communications*, **2018**, 205, 238-248	2.2	9
33	Study of Whey Protein Concentrate Fortification in Cookies Variety Biscuits. *International Journal of Food Engineering*, **2011**, 7,	1.9	9
32	ANSYS simulation study of a low volume fraction CuO–ZnO/water hybrid nanofluid in a shell and tube heat exchanger. *Journal of the Indian Chemical Society*, **2021**, 98, 100200		9

31	Enhancement of pool boiling performance using MWCNT based nanofluids: A sustainable method for the wastewater and incinerator heat recovery. *Sustainable Energy Technologies and Assessments*, **2021**, 45, 101115	4.7	9
30	Polyaniline/zinc oxide nanocomposite as room-temperature sensing layer for methane. *Polymer Engineering and Science*, **2018**, 58, 1438-1445	2.3	9
29	Biodegradation of Isotactic Polypropylene (iPP)/Poly(lactic acid) (PLA) and iPP/PLA/Nano Calcium Carbonates Using Phanerochaete chrysosporium. *Advances in Polymer Technology*, **2018**, 37, 522-530	1.9	8
28	Nanofluids-based delivery system, encapsulation of nanoparticles for stability to make stable nanofluids **2020**, 141-152		8
27	Efficient cenosphere supported catalyst for the esterification of n -octanol with acetic acid. *Comptes Rendus Chimie*, **2017**, 20, 818-826	2.7	7
26	Polyamide Nanocomposites: Investigation of Mechanical, Thermal and Morphological Characteristics. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 1055-1061		7
25	Textile Industry Wastewater Treatment by Cavitation Combined with Fenton and Ceramic Nanofiltration Membrane. *Chemical Engineering and Processing: Process Intensification*, **2021**, 168, 108540	3.7	6
24	Process Optimization for the Synthesis of Silver (AgNPs), Iron Oxide (Fe2O3NPs) and Core-Shell (Ag-Fe2O3CNPs) Nanoparticles Using the Aqueous Extract of Alstonia Scholaris: A Greener Approach. *Open Materials Science Journal*, **2018**, 12, 29-39		5
23	Multifunctional coatings based on smart nanocontainers **2020**, 135-162		5
22	Low-frequency ultrasound assisted synthesis of an aqueous aluminium hydroxide decorated graphitic carbon nitride nanowires based hybrid nanofluid for the photocatalytic H2 production from Methylene blue dye. *Sustainable Energy Technologies and Assessments*, **2021**, 44, 100979	4.7	5
21	The sono-photocatalytic performance of a Fe2O3 coated TiO2 based hybrid nanofluid under visible light via RSM. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 641, 128545	5.1	4
20	Investigation of thermal and mechanical properties of styrene–butadiene rubber nanocomposites filled with SiO2–polystyrene core–shell nanoparticles. *Journal of Composite Materials*, **2020**, 54, 1785-1795	2.7	4
19	Response Surface Optimization and Kinetics of Isopropyl Palmitate Synthesis using Homogeneous Acid Catalyst. *International Journal of Chemical Reactor Engineering*, **2017**, 15,	1.2	3
18	Study on visco-elastic properties enhancement of MWCNT based polypropylene nanocomposites. *Materials Today: Proceedings*, **2020**, 29, 929-933	1.4	3
17	Effect of Ultrasound on Leaching of Tannic Acid from Tea and its Modeling. *Chemical Engineering and Technology*, **2008**, 31, 1304-1309	2	2
16	Development of Nanobased Thermic Fluid: Thermal Aspects of New Energy System. *Springer Proceedings in Energy*, **2018**, 107-114	0.2	2
15	Nanomaterials for membrane synthesis: Introduction, mechanism, and challenges for wastewater treatment **2021**, 537-553		2
14	Process intensification for continuous synthesis of performic acid using Corning advanced-flow reactors. *Green Processing and Synthesis*, **2017**, 6,	3.9	1

13	LDPE:PLA and LDPE:PLA:OMMT polymer composites: Preparation, characterization, and its biodegradation using Bacillus species isolated from dumping yard. *Polymers for Advanced Technologies*, **2021**, 32, 3724-3739	3.2	1
12	Thermo mechanical properties of polycarbonate-OMMT clay nanocomposites using artificial neural network **2016**,		1
11	Nanofluid-based drug delivery systems **2022**, 303-334		1
10	Ecological optimization and LCA of TiO2-SiC/ water hybrid nanofluid in a shell and tube heat exchanger by ANN. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*,095440892210933	1.5	0
9	Experimental investigations of the nanofluid applications in the pool boiling process **2022**, 163-184		0
8	Mathematical and numerical investigations of CO2 absorption and desorption process **2022**, 205-226		0
7	Experimental investigation of CO2 absorption process using nanofluids **2022**, 227-250		0
6	Computational analysis of nanofluids-based drug delivery system: Preparation, current development and applications of nanofluids **2022**, 335-364		0
5	Experimental investigation of nanofluid in industrial heat exchangers **2022**, 79-106		0
4	Experimental investigations of direct absorption solar collectors **2022**, 107-132		0
3	Thermo-physical and optical properties of the nanofluids **2022**, 27-52		0
2	Mathematical and numerical investigations of nanofluid applications in the industrial heat exchangers **2022**, 53-78		0
1	Mathematical, numerical, and experimental investigations of metal extraction processes **2022**, 251-268		