

Shriram S Sonawane

List of Publications by Year in Descending Order

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

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	The sono-photocatalytic performance of a Fe ₂ O ₃ coated TiO ₂ based hybrid nanofluid under visible light via RSM. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 641, 128545	5.1	4
83	Experimental investigations of the nanofluid applications in the pool boiling process 2022 , 163-184		0
82	Mathematical and numerical investigations of CO ₂ absorption and desorption process 2022 , 205-226		0
81	Experimental investigation of CO ₂ absorption process using nanofluids 2022 , 227-250		0
80	Computational analysis of nanofluids-based drug delivery system: Preparation, current development and applications of nanofluids 2022 , 335-364		0
79	Experimental investigation of nanofluid in industrial heat exchangers 2022 , 79-106		0
78	Experimental investigations of direct absorption solar collectors 2022 , 107-132		0
77	Thermo-physical and optical properties of the nanofluids 2022 , 27-52		0
76	Mathematical, numerical, and experimental investigations of metal extraction processes 2022 , 251-268		
75	Nanofluid-based drug delivery systems 2022 , 303-334		1
74	Mathematical and numerical investigations of nanofluid applications in the industrial heat exchangers 2022 , 53-78		0
73	ANSYS simulation study of a low volume fraction CuO/ZnO/water hybrid nanofluid in a shell and tube heat exchanger. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100200		9
72	Low-frequency ultrasound assisted synthesis of an aqueous aluminium hydroxide decorated graphitic carbon nitride nanowires based hybrid nanofluid for the photocatalytic H ₂ production from Methylene blue dye. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 44, 100979	4.7	5
71	Statistical modelling for the Ultrasonic photodegradation of Rhodamine B dye using aqueous based Bi-metal doped TiO ₂ supported montmorillonite hybrid nanofluid via RSM. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 44, 100980	4.7	11
70	LDPE:PLA and LDPE:PLA:OMMT polymer composites: Preparation, characterization, and its biodegradation using <i>Bacillus</i> species isolated from dumping yard. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 3724-3739	3.2	1
69	Enhancement of pool boiling performance using MWCNT based nanofluids: A sustainable method for the wastewater and incinerator heat recovery. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 101115	4.7	9
68	Comparative performance evaluation of fly ash-based hybrid nanofluids in microchannel-based direct absorption solar collector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 1713-1726	4.1	19

67	An environment friendly approach for heavy metal removal from industrial wastewater using chitosan based biosorbent: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 43, 100951	4.7	26
66	Nanomaterials for membrane synthesis: Introduction, mechanism, and challenges for wastewater treatment 2021 , 537-553		2
65	Application of RSM and ANN for the prediction and optimization of thermal conductivity ratio of water based Fe ₂ O ₃ coated SiC hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 126, 105354	5.8	20
64	The sono-photocatalytic performance of a novel water based Ti+4 coated Al(OH) ₃ -MWCNT hybrid nanofluid for dye fragmentation. <i>International Journal of Chemical Reactor Engineering</i> , 2021 , 19, 901-912	1.2	10
63	Recent Advances in Ultrasound-Assisted Synthesis of Nano-Emulsions and their Industrial Applications. <i>Current Pharmaceutical Biotechnology</i> , 2021 , 22, 1748-1758	2.6	16
62	Textile Industry Wastewater Treatment by Cavitation Combined with Fenton and Ceramic Nanofiltration Membrane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 168, 108540	1.7	6
61	Process Intensification Approach Using Microreactors for Synthesizing Nanomaterials-A Critical Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	15
60	Study on visco-elastic properties enhancement of MWCNT based polypropylene nanocomposites. <i>Materials Today: Proceedings</i> , 2020 , 29, 929-933	1.4	3
59	Study on thermal property enhancement of MWCNT based polypropylene (PP) nanocomposites. <i>Materials Today: Proceedings</i> , 2020 , 27, 550-555	1.4	12
58	Investigation of thermal and mechanical properties of styrene-butadiene rubber nanocomposites filled with SiO ₂ /polystyrene core-shell nanoparticles. <i>Journal of Composite Materials</i> , 2020 , 54, 1785-1795	2.7	4
57	Multifunctional coatings based on smart nanocontainers 2020 , 135-162		5
56	Nanofluids-based delivery system, encapsulation of nanoparticles for stability to make stable nanofluids 2020 , 141-152		8
55	Nanomaterial Synthesis: Chemical and Biological Route and Applications 2019 , 27-51		11
54	Influence of functionalized calcium carbonate nanofillers on the properties of melt-extruded polycarbonate composites. <i>Chemical Engineering Communications</i> , 2018 , 205, 492-505	2.2	30
53	Biodegradation of Isotactic Polypropylene (iPP)/Poly(lactic acid) (PLA) and iPP/PLA/Nano Calcium Carbonates Using Phanerochaete chrysosporium. <i>Advances in Polymer Technology</i> , 2018 , 37, 522-530	1.9	8
52	Copper-doped zinc oxide nanoparticles: Influence on thermal, thermo mechanical, and tribological properties of polycarbonate. <i>Polymer Composites</i> , 2018 , 39, E1398-E1406	3	14
51	Synthesis of cenosphere supported heterogeneous catalyst and its performance in esterification reaction. <i>Chemical Engineering Communications</i> , 2018 , 205, 238-248	2.2	9
50	Experimental study on pool boiling and Critical Heat Flux enhancement of metal oxides based nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 96, 37-42	5.8	32

49	Intensified Heat Transfer Rate With the Use of Nanofluids 2018 , 739-750		15
48	Process Optimization for the Synthesis of Silver (AgNPs), Iron Oxide (Fe_2O_3 NPs) and Core-Shell (Ag- Fe_2O_3 CNPs) Nanoparticles Using the Aqueous Extract of <i>Alstonia Scholaris</i> : A Greener Approach. <i>Open Materials Science Journal</i> , 2018 , 12, 29-39		5
47	Development of Nanobased Thermic Fluid: Thermal Aspects of New Energy System. <i>Springer Proceedings in Energy</i> , 2018 , 107-114	0.2	2
46	Experimental study of thermal conductivity, heat transfer and friction factor of Al_2O_3 based nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 90, 1-10	5.8	79
45	Polyaniline/zinc oxide nanocomposite as room-temperature sensing layer for methane. <i>Polymer Engineering and Science</i> , 2018 , 58, 1438-1445	2.3	9
44	Convective Heat Transfer of Metal Oxide-Based Nanofluids in a Shell and Tube Heat Exchanger. <i>Springer Proceedings in Energy</i> , 2018 , 183-192	0.2	12
43	Degradation Kinetics of Polycarbonate Composites: Kinetic Parameters and Artificial Neural Network. <i>Chemical and Biochemical Engineering Quarterly</i> , 2018 , 32, 151-165	1.8	13
42	Response Surface Optimization and Kinetics of Isopropyl Palmitate Synthesis using Homogeneous Acid Catalyst. <i>International Journal of Chemical Reactor Engineering</i> , 2017 , 15,	1.2	3
41	Process intensification for continuous synthesis of performic acid using Corning advanced-flow reactors. <i>Green Processing and Synthesis</i> , 2017 , 6,	3.9	1
40	Process optimization and kinetic modeling for esterification of propionic acid with benzyl alcohol on ion-exchange resin catalyst. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 987-996	2.8	13
39	Esterification of propionic acid with isopropyl alcohol over ion exchange resins: Optimization and kinetics. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 249-258	2.8	23
38	Efficient cenosphere supported catalyst for the esterification of n-octanol with acetic acid. <i>Comptes Rendus Chimie</i> , 2017 , 20, 818-826	2.7	7
37	Novel hybrid system based on hydrodynamic cavitation for treatment of dye waste water: A first report on bench scale study. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1874-1884	6.8	32
36	Optimization of conditions for an enhancement of thermal conductivity and minimization of viscosity of ethylene glycol based Fe_3O_4 nanofluid. <i>Applied Thermal Engineering</i> , 2016 , 109, 121-129	5.8	44
35	Experimental investigations and theoretical determination of thermal conductivity and viscosity of TiO_2 /ethylene glycol nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 54-61	5.8	70
34	Ultrasound assisted two-stage biodiesel synthesis from non-edible <i>Schleichera triguga</i> oil using heterogeneous catalyst: Kinetics and thermodynamic analysis. <i>Ultrasonics Sonochemistry</i> , 2016 , 29, 288-98	8.9	50
33	Thermo mechanical properties of polycarbonate-OMMT clay nanocomposites using artificial neural network 2016 ,		1
32	Experimental study of thermal conductivity and convective heat transfer enhancement using CuO and TiO_2 nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 98-107	5.8	63

31	Experimental study of Fe ₂ O ₃ /water and Fe ₂ O ₃ /ethylene glycol nanofluid heat transfer enhancement in a shell and tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 78, 277-284	5.8	85
30	Influence of nickel and hematite nanoparticle powder on the production of biohydrogen from complex distillery wastewater in batch fermentation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10734-10743	6.7	62
29	Enhanced biohydrogen production from dark fermentation of complex dairy wastewater by sonolysis. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9942-9951	6.7	27
28	Enhancement effect of hematite and nickel nanoparticles on biohydrogen production from dairy wastewater. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 4502-4511	6.7	105
27	Response surface optimization and artificial neural network modeling of biodiesel production from crude mahua (<i>Madhuca indica</i>) oil under supercritical ethanol conditions using CO ₂ as co-solvent. <i>RSC Advances</i> , 2015 , 5, 69702-69713	3.7	42
26	Effect of sonication time on enhancement of effective thermal conductivity of nano TiO ₂ /water, ethylene glycol, and paraffin oil nanofluids and models comparisons. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 310-322	1.9	79
25	Optimization and Kinetic Studies on Biodiesel Production from Kusum (<i>Schleichera triguga</i>) Oil Using Response Surface Methodology. <i>Journal of Oleo Science</i> , 2015 , 64, 987-97	1.6	11
24	Ultrasound assisted biodiesel production from sesame (<i>Sesamum indicum</i> L.) oil using barium hydroxide as a heterogeneous catalyst: Comparative assessment of prediction abilities between response surface methodology (RSM) and artificial neural network (ANN). <i>Ultrasonics Sonochemistry</i> , 2015 , 26, 218-228	8.9	131
23	Kinetic analysis of biohydrogen production from complex dairy wastewater under optimized condition. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1306-1314	6.7	36
22	Heat transfer study on concentric tube heat exchanger using TiO ₂ /water based nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 57, 163-169	5.8	59
21	Evaluation of ultrasonication as a treatment strategy for enhancement of biohydrogen production from complex distillery wastewater and process optimization. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10041-10050	6.7	37
20	Ultrasonic pretreatment for an enhancement of biohydrogen production from complex food waste. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7721-7729	6.7	64
19	Intensification of Esterification Reaction of Lactic Acid with Iso-propanol using Pervaporation Reactor. <i>Procedia Engineering</i> , 2013 , 51, 456-460		12
18	Study on concentric tube heat exchanger heat transfer performance using Al ₂ O ₃ /water based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 49, 60-68	5.8	53
17	Thermo Physical Characterization of Paraffin based Fe ₃ O ₄ Nanofluids. <i>Procedia Engineering</i> , 2013 , 51, 342-346		37
16	Water to Nanofluids Heat Transfer in Concentric Tube Heat Exchanger: Experimental Study. <i>Procedia Engineering</i> , 2013 , 51, 318-323		48
15	Reactive extraction of picolinic and nicotinic acid by natural non-toxic solvent. <i>Separation and Purification Technology</i> , 2013 , 120, 296-303	8.3	43
14	Enhancement of Esterification Reaction by Pervaporation Reactor: An Intensifying Approach. <i>Procedia Engineering</i> , 2013 , 51, 330-334		14

13	Optimization of conditions for hydrogen production from complex dairy wastewater by anaerobic sludge using desirability function approach. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6607-6617	6.7	44
12	Synthesis of TiO ₂ /Water Nanofluids for its Viscosity and Dispersion Stability Study. <i>Journal of Nano Research</i> , 2013 , 24, 26-33	1	19
11	Influence of CuO nanoparticles in enhancing the thermal conductivity of water and monoethylene glycol based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 665-669	5.8	114
10	Study of Whey Protein Concentrate Fortification in Cookies Variety Biscuits. <i>International Journal of Food Engineering</i> , 2011 , 7,	1.9	9
9	Natural Nontoxic Solvents for Recovery of Picolinic Acid by Reactive Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13526-13537	3.9	40
8	Influence of Nano-Inorganic Particles on Properties of Epoxy Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2011 , 50, 758-761		25
7	Comparative Study of the Mechanical and Thermal Properties of Polyamide-66 Filled with Commercial and Nano-Mg(OH) ₂ Particles. <i>Polymer-Plastics Technology and Engineering</i> , 2010 , 49, 474-480		20
6	Effect of Commercial & Nano-Ca ₃ (PO ₄) ₂ on Mechanical and Thermal Properties of Polyamide Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 265-271		13
5	Polyamide Nanocomposites: Investigation of Mechanical, Thermal and Morphological Characteristics. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 1055-1061		7
4	Influence of organo-montmorillonite on mechanical and rheological properties of polyamide nanocomposites. <i>Applied Clay Science</i> , 2009 , 46, 222-225	5.2	25
3	Effect of Nano-CaCO ₃ on Mechanical and Thermal Properties of Polyamide Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 49, 38-44		18
2	Effect of Ultrasound on Leaching of Tannic Acid from Tea and its Modeling. <i>Chemical Engineering and Technology</i> , 2008 , 31, 1304-1309	2	2
1	Ecological optimization and LCA of TiO ₂ -SiC/ water hybrid nanofluid in a shell and tube heat exchanger by ANN. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892210933	1.5	0