

# Goshtasp Cheraghian

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2520551/publications.pdf>

Version: 2024-02-01

65  
papers

2,626  
citations

159585

30  
h-index

197818

49  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1648  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanofluids: Physical phenomena, applications in thermal systems and the environment effects- a critical review. Journal of Cleaner Production, 2021, 320, 128573.	9.3	183
2	A review on applications of nanotechnology in the enhanced oil recovery part A: effects of nanoparticles on interfacial tension. International Nano Letters, 2016, 6, 129-138.	5.0	167
3	A review on applications of nanotechnology in the enhanced oil recovery part B: effects of nanoparticles on flooding. International Nano Letters, 2016, 6, 1-10.	5.0	156
4	Warm mix asphalt technology: An up to date review. Journal of Cleaner Production, 2020, 268, 122128.	9.3	120
5	Effect of a novel clay/silica nanocomposite on water-based drilling fluids: Improvements in rheological and filtration properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 339-350.	4.7	119
6	An experimental investigation of the enhanced oil recovery and improved performance of drilling fluids using titanium dioxide and fumed silica nanoparticles. Journal of Nanostructure in Chemistry, 2013, 3, 1.	9.1	107
7	Adsorption polymer on reservoir rock and role of the nanoparticles, clay and SiO <sub>2</sub> . International Nano Letters, 2014, 4, 1.	5.0	97
8	A Review on the Control Parameters of Natural Convection in Different Shaped Cavities with and without Nanofluid. Processes, 2020, 8, 1011.	2.8	80
9	Nanotechnology in Enhanced Oil Recovery. Processes, 2020, 8, 1073.	2.8	78
10	Silica Nanoparticle Enhancement in the Efficiency of Surfactant Flooding of Heavy Oil in a Glass Micromodel. Industrial & Engineering Chemistry Research, 2017, 56, 8528-8534.	3.7	77
11	Nanoparticles in drilling fluid: A review of the state-of-the-art. Journal of Materials Research and Technology, 2021, 13, 737-753.	5.8	73
12	Effect of nano titanium dioxide on heavy oil recovery during polymer flooding. Petroleum Science and Technology, 2016, 34, 633-641.	1.5	70
13	Comprehensive study concerned graphene nano-sheets dispersed in ethylene glycol: Experimental study and theoretical prediction of thermal conductivity. Powder Technology, 2021, 386, 51-59.	4.2	59
14	Effect of nanoclay on improved rheology properties of polyacrylamide solutions used in enhanced oil recovery. Journal of Petroleum Exploration and Production, 2015, 5, 189-196.	2.4	57
15	Effect of Nanoclay on Heavy Oil Recovery During Polymer Flooding. Petroleum Science and Technology, 2015, 33, 999-1007.	1.5	56
16	An Experimental Study of Surfactant Polymer for Enhanced Heavy Oil Recovery Using a Glass Micromodel by Adding Nanoclay. Petroleum Science and Technology, 2015, 33, 1410-1417.	1.5	55
17	Effects of titanium dioxide nanoparticles on the efficiency of surfactant flooding of heavy oil in a glass micromodel. Petroleum Science and Technology, 2016, 34, 260-267.	1.5	48
18	Evaluation of Clay and Fumed Silica Nanoparticles on Adsorption of Surfactant Polymer during Enhanced Oil Recovery. Journal of the Japan Petroleum Institute, 2017, 60, 85-94.	0.6	48

#	ARTICLE	IF	CITATIONS
19	Ultraviolet aging study on bitumen modified by a composite of clay and fumed silica nanoparticles. <i>Scientific Reports</i> , 2020, 10, 11216.	3.3	47
20	Characterizing the Role of Clay and Silica Nanoparticles in Enhanced Heavy Oil Recovery During Polymer Flooding. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 2731-2750.	1.1	44
21	The use of nanofluids in thermosyphon heat pipe: A comprehensive review. <i>Powder Technology</i> , 2021, 394, 250-269.	4.2	43
22	Application of nano-fumed silica in heavy oil recovery. <i>Petroleum Science and Technology</i> , 2016, 34, 12-18.	1.5	40
23	Thermal Resistance and Application of Nanoclay on Polymer Flooding in Heavy Oil Recovery. <i>Petroleum Science and Technology</i> , 2015, 33, 1580-1586.	1.5	39
24	Synthesis and properties of polyacrylamide by nanoparticles, effect nanoclay on stability polyacrylamide solution. <i>Micro and Nano Letters</i> , 2017, 12, 40-44.	1.3	39
25	Effect of Fumed Silica Nanoparticles on Ultraviolet Aging Resistance of Bitumen. <i>Nanomaterials</i> , 2021, 11, 454.	4.1	38
26	Loading PCM Into Buildings Envelope to Decrease Heat Gain-Performing Transient Thermal Analysis on Nanofluid Filled Solar System. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	36
27	Mechanisms behind injecting the combination of nano-clay particles and polymer solution for enhanced oil recovery. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 923-931.	3.1	34
28	Combining an active method and a passive method in cooling lithium-ion batteries and using the generated heat in heating a residential unit. <i>Journal of Energy Storage</i> , 2022, 49, 104181.	8.1	34
29	Application of TiO <sub>2</sub> and fumed silica nanoparticles and improve the performance of drilling fluids. <i>AIP Conference Proceedings</i> , 2014, . .	0.4	32
30	Natural Convection and Entropy Generation of MgO/Water Nanofluids in the Enclosure under a Magnetic Field and Radiation Effects. <i>Processes</i> , 2021, 9, 1277.	2.8	32
31	Effect of nano phase change materials on the cooling process of a triangular lithium battery pack. <i>Journal of Energy Storage</i> , 2022, 51, 104326.	8.1	32
32	Effects of Different Wall Shapes on Thermal-Hydraulic Characteristics of Different Channels Filled with Water Based Graphite-SiO <sub>2</sub> Hybrid Nanofluid. <i>Processes</i> , 2021, 9, 1253.	2.8	30
33	Simulation of melting and solidification of graphene nanoparticles-PCM inside a dual tube heat exchanger with extended surface. <i>Journal of Energy Storage</i> , 2021, 44, 103265.	8.1	30
34	Incorporation of Horizontal Fins into a PCM-Based Heat Sink to Enhance the Safe Operation Time: Applicable in Electronic Device Cooling. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6308.	2.5	26
35	Energy, exergy and economics study of a solar/thermal panel cooled by nanofluid. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101481.	5.7	24
36	Utilization of Carbon-Based Nanomaterials and Plate-Fin Networks in a Cold PCM Container with Application in Air Conditioning of Buildings. <i>Nanomaterials</i> , 2022, 12, 1927.	4.1	23

#	ARTICLE	IF	CITATIONS
37	Improvement of heavy oil recovery and role of nanoparticles of clay in the surfactant flooding process. <i>Petroleum Science and Technology</i> , 2016, 34, 1397-1405.	1.5	21
38	Rheological, physicochemical, and microstructural properties of asphalt binder modified by fumed silica nanoparticles. <i>Scientific Reports</i> , 2021, 11, 11455.	3.3	20
39	The computational study of nanoparticles shape effects on thermal behavior of H <sub>2</sub> O-Fe nanofluid: A molecular dynamics approach. <i>Journal of Molecular Liquids</i> , 2022, 346, 117093.	4.9	19
40	Assessment of economic, thermal and hydraulic performances a corrugated helical heat exchanger filled with non-Newtonian nanofluid. <i>Scientific Reports</i> , 2021, 11, 11568.	3.3	17
41	Improved Heavy Oil Recovery by Nanofluid Surfactant Flooding - An Experimental Study. , 2016, , .		17
42	A critical analysis on the energy and exergy performance of photovoltaic/thermal (PV/T) system: The role of nanofluids stability and synthesizing method. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101887.	2.7	17
43	Mechanistic Modeling of Nanoparticles-Assisted Surfactant Flood. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 6609-6625.	3.0	16
44	Coupled effects of warm mix asphalt (WMA) additives and rheological modifiers on the properties of asphalt binders. <i>Cleaner Engineering and Technology</i> , 2020, 1, 100028.	4.0	15
45	The effect of nanoparticle shape on alumina/EG-water (50:50) nanofluids flow within a solar collector: Entropy and exergy investigation. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101510.	5.7	15
46	Engineered nanocomposites in asphalt binders. <i>Nanotechnology Reviews</i> , 2022, 11, 1047-1067.	5.8	15
47	Effect of Straight, Inclined and Curved Fins on Natural Convection and Entropy Generation of a Nanofluid in a Square Cavity Influenced by a Magnetic Field. <i>Processes</i> , 2021, 9, 1339.	2.8	13
48	A Review of the Methods of Modeling Multi-Phase Flows within Different Microchannels Shapes and Their Applications. <i>Micromachines</i> , 2021, 12, 1113.	2.9	13
49	Numerical study of the effect of graphene nanoparticles in calcium chloride hexahydrate -based phase change material on melting and freezing time in a circular cavity with a triangular obstacle. <i>Journal of Energy Storage</i> , 2021, 43, 103243.	8.1	12
50	Experimental Investigation of Polymer Solutions Used in Enhanced Oil Recovery - Thermal properties Improved by Nanoclay. , 2015, , .		12
51	Influence of using innovative turbulators on the exergy and energy efficacy of flat plate solar collector with DWCNTs-TiO <sub>2</sub> /water nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101855.	2.7	11
52	Impact of phase change material on the amount of emission in the double-glazed window frame for different window angles. <i>Journal of Energy Storage</i> , 2021, 44, 103320.	8.1	9
53	Application of hybrid nanofluid and a twisted turbulator in a parabolic solar trough collector: Energy and exergy models. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101708.	2.7	9
54	Simulation of a parabolic trough solar collector containing hybrid nanofluid and equipped with compound turbulator to evaluate exergy efficacy and thermal-hydraulic performance. <i>Energy Science and Engineering</i> , 2022, 10, 4304-4317.	4.0	8

#	ARTICLE	IF	CITATIONS
55	Applying Artificial Neural Network and Response Surface Method to Forecast the Rheological Behavior of Hybrid Nano-Antifreeze Containing Graphene Oxide and Copper Oxide Nanomaterials. Sustainability, 2021, 13, 11505.	3.2	8
56	Using nanoparticles in solar collector to enhance solar-assisted hot process stream usefulness. Sustainable Energy Technologies and Assessments, 2022, 52, 101992.	2.7	8
57	Improvement of the energy and exergy efficiencies of the parabolic solar collector equipped with a twisted turbulator using SWCNT-Cu/water two-phase hybrid nanofluid. Sustainable Energy Technologies and Assessments, 2022, 49, 101705.	2.7	7
58	Study on the Effect of Hole Size of Trombe Wall in the Presence of Phase Change Material for Different Times of a Day in Winter and Summer. Processes, 2021, 9, 1886.	2.8	5
59	Simulation of Nanofluid Flow in a Micro-Heat Sink With Corrugated Walls Considering the Effect of Nanoparticle Diameter on Heat Sink Efficiency. Frontiers in Energy Research, 2021, 9, .	2.3	4
60	A New Thermal Method Concept for IOR from Oil Reservoir Using Optimized In-situ Combustion. , 2016, , .		3
61	Application of Cylindrical Fin to Improve Heat Transfer Rate in Micro Heat Exchangers Containing Nanofluid under Magnetic Field. Processes, 2021, 9, 1278.	2.8	2
62	Numerical Study of Natural Convection of Biological Nanofluid Flow Prepared from Tea Leaves under the Effect of Magnetic Field. Processes, 2021, 9, 1824.	2.8	2
63	Experimental Investigation on Ultraviolet Aging Properties of Silica Nanoparticles-Modified Bitumen. RILEM Bookseries, 2022, , 879-885.	0.4	1
64	An experimental investigation of the enhanced oil recovery and improved performance of drilling fluids using titanium dioxide and fumed silica nanoparticles. , 2013, 3, 1.		1
65	Correlations for Total Entropy Generation and Bejan Number for Free Convective Heat Transfer of an Eco-Friendly Nanofluid in a Rectangular Enclosure under Uniform Magnetic Field. Processes, 2021, 9, 1930.	2.8	0