

Nicky Eshtiaghi

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

2,812
citations

218677

26
h-index

182427

51
g-index

79
all docs

79
docs citations

79
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Physico-chemical and rheological properties datasets related to batch mesophilic anaerobic digestion of waste activated sludge, primary sludge, and mixture of sludge with organic and inorganic matter. <i>Data in Brief</i> , 2023, 51, 106418.	1.0	1
2	Synthesis of functional hydrochar from olive waste for simultaneous removal of azo and non-azo dyes from water. <i>Chemical Engineering Journal Advances</i> , 2022, 9, 100233.	5.2	13
3	Characterising sedimentation velocity of primary waste water solids and effluents. <i>Water Research</i> , 2022, 219, 118555.	11.3	5
4	Formation mechanisms and mechanical properties of anaerobic lagoon scum. <i>Science of the Total Environment</i> , 2022, , 156907.	8.0	2
5	Anaerobic co-digestion of food waste and cardboard in different mixing ratios: Impact of ultrasound pre-treatment on soluble organic matter and biogas generation potential at varying food to inoculum ratios. <i>Biochemical Engineering Journal</i> , 2021, 166, 107853.	3.6	11
6	Solid-state anaerobic co-digestion of food waste and cardboard in a pilot-scale auto-fed continuous stirred tank reactor system. <i>Journal of Cleaner Production</i> , 2021, 289, 125775.	9.3	15
7	Impact of methodological artifact on digested sludge flow curve measurement. <i>MethodsX</i> , 2020, 7, 100972.	1.6	0
8	Revealing the mechanisms for potassium ferrate affecting methane production from anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2020, 317, 124022.	9.6	27
9	Optimization of feed and extractant concentration for the liquid-liquid extraction of volatile fatty acids from synthetic solution and landfill leachate. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 190-202.	5.8	11
10	Constitutive modelling and pipeline flow of thixotropic viscoplastic wastewater sludge. <i>Water Research</i> , 2020, 184, 116126.	11.3	9
11	Anaerobic co-digestion of sewage sludge with cellulose, protein, and lipids: Role of rheology and digestibility. <i>Science of the Total Environment</i> , 2020, 731, 139214.	8.0	17
12	Synergy of combined free nitrous acid and Fenton technology in enhancing anaerobic digestion of actual sewage waste activated sludge. <i>Scientific Reports</i> , 2020, 10, 5027.	3.3	7
13	Rheological measurements as indicators for hydrolysis rate, organic matter removal, and dewaterability of digestate in anaerobic digesters. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103970.	6.7	14
14	Comparison of mesophilic and thermophilic methane production potential of acids rich and high-strength landfill leachate at different initial organic loadings and food to inoculum ratios. <i>Science of the Total Environment</i> , 2020, 715, 136658.	8.0	15
15	A Proposal for Recycling the World's Unused Stockpiles of Treated Wastewater Sludge (Biosolids) in Fired-Clay Bricks. <i>Buildings</i> , 2019, 9, 14.	3.1	38
16	Bubble rise velocity and bubble size in thickened waste activated sludge: Utilising electrical resistance tomography (ERT). <i>Chemical Engineering Research and Design</i> , 2019, 148, 119-128.	5.6	5
17	Rheological characterization of thermal hydrolysed waste activated sludge. <i>Water Research</i> , 2019, 156, 445-455.	11.3	16
18	Solid-liquid mass transfer in sonicated agitated vessels with high concentration slurries. <i>Heat and Mass Transfer</i> , 2019, 55, 1327-1335.	2.1	2

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19	Impact of rheological properties of substrate on anaerobic digestion and digestate dewaterability: New insights through rheological and physico-chemical interaction. <i>Water Research</i> , 2019, 150, 56-67.	11.3	43
20	Role of regression analysis and variation of rheological data in calculation of pressure drop for sludge pipelines. <i>Water Research</i> , 2018, 137, 1-8.	11.3	13
21	Control of the mixing time in vessels agitated by submerged recirculating jets. <i>Royal Society Open Science</i> , 2018, 5, 171037.	2.4	3
22	A study of gas emissions during the firing process from bricks incorporating biosolids. <i>Waste Management</i> , 2018, 74, 413-426.	7.4	12
23	Influence of gas injection on viscous and viscoelastic properties of Xanthan gum. <i>Water Research</i> , 2018, 134, 86-91.	11.3	10
24	Evaluation of single and two stage anaerobic digestion of landfill leachate: Effect of pH and initial organic loading rate on volatile fatty acid (VFA) and biogas production. <i>Bioresource Technology</i> , 2018, 251, 364-373.	9.6	101
25	Measuring active volume using electrical resistance tomography in a gas-sparged model anaerobic digester. <i>Chemical Engineering Research and Design</i> , 2018, 130, 42-51.	5.6	11
26	Comparison between classical Kelvin-Voigt and fractional derivative Kelvin-Voigt models in prediction of linear viscoelastic behaviour of waste activated sludge. <i>Science of the Total Environment</i> , 2018, 613-614, 1031-1036.	8.0	20
27	Rheological characterisation of biologically treated and non-treated putrescible food waste. <i>Waste Management</i> , 2018, 71, 494-501.	7.4	27
28	Intensification of sonochemical reactions in solid-liquid systems under fully suspended condition. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 123, 34-44.	3.6	8
29	Evolution of flow regimes in non-Newtonian liquids under gas sparging. <i>Chemical Engineering Science</i> , 2018, 176, 153-156.	3.8	5
30	Improvement of anaerobic digestion of sewage mixed sludge using free nitrous acid and Fenton pre-treatment. <i>Biotechnology for Biofuels</i> , 2018, 11, 233.	6.2	24
31	CFD Modeling of Active Volume Creation in a Non-Newtonian Fluid Agitated by Submerged Recirculating Jets. <i>Chemical Engineering and Technology</i> , 2018, 41, 1441-1447.	1.5	1
32	Impact of gas injection on physicochemical properties of waste activated sludge: A linear relationship between the change of viscoelastic properties and the change of other physicochemical properties. <i>Water Research</i> , 2018, 144, 246-253.	11.3	10
33	Submerged Recirculating Liquid Jet Mixing: A Comparison of Nozzle Orientation and Tank Aspect Ratio. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 166-169.	0.6	0
34	The influence of injection velocity and relaxation time on the spreading of tracers in viscoelastic liquids agitated by submerged, recirculating jets with low reynolds numbers. <i>AIChE Journal</i> , 2017, 63, 3132-3140.	3.6	6
35	Rheological measurements as a tool for monitoring the performance of high pressure and high temperature treatment of sewage sludge. <i>Water Research</i> , 2017, 114, 254-263.	11.3	21
36	Impact of gas injection on the apparent viscosity and viscoelastic property of waste activated sewage sludge. <i>Water Research</i> , 2017, 114, 296-307.	11.3	14

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37	Net positive energy wastewater treatment plant via thermal pre-treatment of sludge: A theoretical case study. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 429-432.	1.7	2
38	Enhancing Impeller Power Efficiency and Solidâ€“Liquid Mass Transfer in an Agitated Vessel with Dual Impellers through Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7021-7036.	3.7	13
39	Evaluation of thermal hydrolysis efficiency of mechanically dewatered sewage sludge via rheological measurement. <i>Water Research</i> , 2017, 116, 34-43.	11.3	57
40	Flow patterns in the mixing of sludge simulant with jet recirculation system. <i>Chemical Engineering Research and Design</i> , 2017, 112, 209-221.	5.6	8
41	Continuous Production of Janus and Composite Liquid Marbles with Tunable Coverage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17751-17756.	8.0	22
42	Predicting the apparent viscosity and yield stress of mixtures of primary, secondary and anaerobically digested sewage sludge: Simulating anaerobic digesters. <i>Water Research</i> , 2016, 100, 568-579.	11.3	27
43	Mixing characteristics of sludge simulant in a model anaerobic digester. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 473-483.	3.4	8
44	Predicting the apparent viscosity and yield stress of digested and secondary sludge mixtures. <i>Water Research</i> , 2016, 95, 159-164.	11.3	16
45	Impact of thermal treatment on the rheological properties and composition of waste activated sludge: COD solubilisation as a footprint of rheological changes. <i>Chemical Engineering Journal</i> , 2016, 295, 39-48.	12.7	27
46	Accelerating the spread of the active mixing region in a sludge simulant using submerged jets. <i>Chemical Engineering Research and Design</i> , 2016, 114, 331-340.	5.6	10
47	Cavern Formation in Non-Newtonian Media in a Vessel Agitated by Submerged Recirculating Liquid Jets. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10771-10781.	3.7	10
48	An overview of biological processes and their potential for CO ₂ capture. <i>Journal of Environmental Management</i> , 2016, 183, 41-58.	7.8	85
49	The viscoelastic characterisation of thermally-treated waste activated sludge. <i>Chemical Engineering Journal</i> , 2016, 304, 362-368.	12.7	25
50	The apparent viscosity and yield stress of mixtures of primary and secondary sludge: Impact of volume fraction of secondary sludge and total solids concentration. <i>Chemical Engineering Journal</i> , 2016, 288, 577-587.	12.7	22
51	Variation in physical and mechanical properties of fired-clay bricks incorporating ETP biosolids. <i>Journal of Cleaner Production</i> , 2016, 119, 76-85.	9.3	72
52	Optimum solids concentration for solids suspension and solidâ€“liquid mass transfer in agitated vessels. <i>Chemical Engineering Research and Design</i> , 2015, 100, 148-156.	5.6	27
53	Flow regimes in the mixing of municipal sludge simulant using submerged, recirculating jets. <i>Chemical Engineering Journal</i> , 2015, 276, 137-144.	12.7	22
54	Impact of temperature and duration of thermal treatment on different concentrations of anaerobic digested sludge: Kinetic similarity of organic matter solubilisation and sludge rheology. <i>Chemical Engineering Journal</i> , 2015, 273, 534-542.	12.7	37

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55	Possible use of biosolids in fired-clay bricks. <i>Construction and Building Materials</i> , 2015, 91, 86-93.	7.2	59
56	Rheological characterisation of thermally-treated anaerobic digested sludge: Impact of temperature and thermal history. <i>Water Research</i> , 2014, 56, 156-161.	11.3	57
57	A review of wet air oxidation and Thermal Hydrolysis technologies in sludge treatment. <i>Bioresource Technology</i> , 2014, 155, 289-299.	9.6	213
58	Rheological characterisation of primary and secondary sludge: Impact of solids concentration. <i>Chemical Engineering Journal</i> , 2014, 253, 526-537.	12.7	71
59	Rheology of a primary and secondary sewage sludge mixture: Dependency on temperature and solid concentration. <i>Bioresource Technology</i> , 2013, 140, 227-233.	9.6	111
60	Rheological characterisation of municipal sludge: A review. <i>Water Research</i> , 2013, 47, 5493-5510.	11.3	203
61	The viscoelastic behaviour of raw and anaerobic digested sludge: Strong similarities with soft-glassy materials. <i>Water Research</i> , 2013, 47, 173-180.	11.3	70
62	The impact of temperature on the rheological behaviour of anaerobic digested sludge. <i>Chemical Engineering Journal</i> , 2013, 215-216, 182-187.	12.7	76
63	Proxy model materials to simulate the elastic properties of digested municipal sludge. <i>Water Research</i> , 2013, 47, 5557-5563.	11.3	6
64	Electrochemically induced actuation of liquid metal marbles. <i>Nanoscale</i> , 2013, 5, 5949.	5.6	205
65	Liquid Metal Marbles. <i>Advanced Functional Materials</i> , 2013, 23, 144-152.	14.9	249
66	The laminar/turbulent transition in a sludge pipeline. <i>Water Science and Technology</i> , 2012, 65, 697-702.	2.5	30
67	Enhanced electrochemical heavy metal ion sensor using liquid metal marbles - towards on-chip application. , 2012, , .		2
68	Clear model fluids to emulate the rheological properties of thickened digested sludge. <i>Water Research</i> , 2012, 46, 3014-3022.	11.3	65
69	Good practice groundwork: Managing initial meetings with higher degree research students. <i>Education for Chemical Engineers</i> , 2012, 7, e196-e202.	4.8	4
70	A quantitative framework for the formation of liquid marbles and hollow granules from hydrophobic powders. <i>Powder Technology</i> , 2012, 223, 65-76.	4.2	65
71	The rheological behaviour of anaerobic digested sludge. <i>Water Research</i> , 2011, 45, 5675-5680.	11.3	121
72	Formation of hollow granules from liquid marbles: Small scale experiments. <i>Powder Technology</i> , 2010, 197, 184-195.	4.2	53

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73	An analysis of the thermodynamic conditions for solid powder particles spreading over liquid surface. Powder Technology, 2010, 201, 306-310.	4.2	18
74	Phase retrieval tomography in the presence of noise. Journal of Applied Physics, 2010, 107, 034904.	2.5	11
75	Liquid marble formation: Spreading coefficients or kinetic energy?. Powder Technology, 2009, 196, 126-132.	4.2	64
76	Producing hollow granules from hydrophobic powders in high-shear mixer granulators. Advanced Powder Technology, 2009, 20, 558-566.	4.1	22
77	Biotreatment of formaldehyde-contaminated air in a trickle bed bioreactor. , 0, 93, 83-92.		2