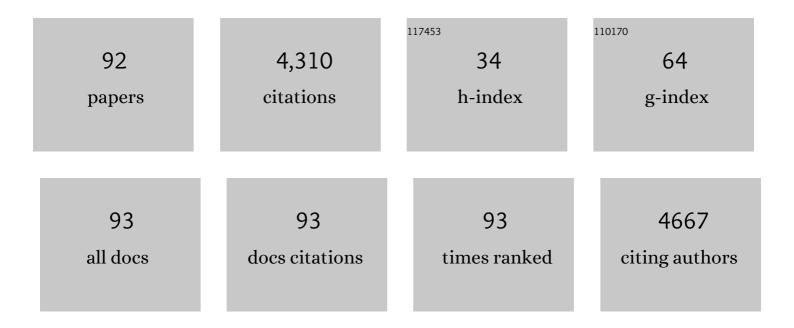
List of Publications by Year in descending order

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SONIA HEAVEN

#	Article	IF	CITATIONS
1	A review of the harvesting of micro-algae for biofuel production. Reviews in Environmental Science and Biotechnology, 2013, 12, 165-178.	3.9	520
2	Anaerobic digestion of source-segregated domestic food waste: Performance assessment by mass and energy balance. Bioresource Technology, 2011, 102, 612-620.	4.8	308
3	Trace element requirements for stable food waste digestion at elevated ammonia concentrations. Bioresource Technology, 2012, 104, 127-135.	4.8	307
4	Ammonia inhibition and toxicity in anaerobic digestion: A critical review. Journal of Water Process Engineering, 2019, 32, 100899.	2.6	222
5	Potential errors in the quantitative evaluation of biogas production in anaerobic digestion processes. Bioresource Technology, 2009, 100, 6339-6346.	4.8	214
6	Biogas production from undiluted chicken manure and maize silage: A study of ammonia inhibition in high solids anaerobic digestion. Bioresource Technology, 2016, 218, 1215-1223.	4.8	140
7	Fluid-dynamic characterization of real-scale raceway reactors for microalgae production. Biomass and Bioenergy, 2013, 54, 267-275.	2.9	132
8	Anaerobic digestion of autoclaved and untreated food waste. Waste Management, 2014, 34, 370-377.	3.7	123
9	Strategies for stable anaerobic digestion of vegetable waste. Renewable Energy, 2012, 44, 206-214.	4.3	110
10	Co-digestion of source segregated domestic food waste to improve process stability. Bioresource Technology, 2012, 114, 168-178.	4.8	103
11	Anaerobic digestion of two biodegradable municipal waste streams. Journal of Environmental Management, 2012, 104, 166-174.	3.8	102
12	Comments on â€~Anaerobic digestion of microalgae as a necessary step to make microalgal biodiesel sustainable'. Biotechnology Advances, 2011, 29, 164-167.	6.0	94
13	The effect of pH control and â€~hydraulic flush' on hydrolysis and Volatile Fatty Acids (VFA) production and profile in anaerobic leach bed reactors digesting a high solids content substrate. Bioresource Technology, 2012, 123, 263-271.	4.8	79
14	Degradation of some EN13432 compliant plastics in simulated mesophilic anaerobic digestion of food waste. Polymer Degradation and Stability, 2018, 147, 76-88.	2.7	79
15	Comparison of mesophilic and thermophilic anaerobic digestion of sugar beet pulp: Performance, dewaterability and foam control. Bioresource Technology, 2014, 152, 202-211.	4.8	74
16	Slow pyrolysis of organic fraction of municipal solid waste (OFMSW): Characterisation of products and screening of the aqueous liquid product for anaerobic digestion. Applied Energy, 2018, 213, 158-168.	5.1	72
17	A review on fermentative hydrogen production from dairy industry wastewater. Journal of Chemical Technology and Biotechnology, 2014, 89, 1627-1636.	1.6	68
18	Preliminary trials of in situ ammonia stripping from source segregated domestic food waste digestate using biogas: Effect of temperature and flow rate. Bioresource Technology, 2010, 101, 9486-9492.	4.8	67

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19	Modeling the Water Scrubbing Process and Energy Requirements for CO <sub>2</sub> Capture to Upgrade Biogas to Biomethane. Industrial & Engineering Chemistry Research, 2014, 53, 12783-12792.	1.8	65
20	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment. Resources, Conservation and Recycling, 2011, 56, 71-79.	5.3	61
21	Methods of energy extraction from microalgal biomass: a review. Reviews in Environmental Science and Biotechnology, 2014, 13, 301-320.	3.9	61
22	Biohydrogen production from food waste in batch and semi-continuous conditions: Evaluation of a two-phase approach with digestate recirculation for pH control. International Journal of Hydrogen Energy, 2013, 38, 4351-4360.	3.8	57
23	Quantifying the percentage of methane formation via acetoclastic and syntrophic acetate oxidation pathways in anaerobic digesters. Waste Management, 2018, 71, 749-756.	3.7	55
24	Anaerobic Digestion of Whole-Crop Winter Wheat Silage for Renewable Energy Production. Energy & Fuels, 2012, 26, 2357-2364.	2.5	53
25	Energy potential from the anaerobic digestion of food waste in municipal solid waste stream of urban areas in Vietnam. International Journal of Energy and Environmental Engineering, 2014, 5, 365-374.	1.3	51
26	Effect of a Trace Element Addition Strategy on Volatile Fatty Acid Accumulation in Thermophilic Anaerobic Digestion of Food Waste. Waste and Biomass Valorization, 2015, 6, 1-12.	1.8	48
27	Biochemical methane potential of winter wheat (Triticum aestivum L.): Influence of growth stage and storage practice. Bioresource Technology, 2010, 101, 8179-8184.	4.8	47
28	Mercury in the River Nura and its floodplain, Central Kazakhstan: I. River sediments and water. Science of the Total Environment, 2000, 260, 35-44.	3.9	44
29	Reducing the environmental impact of methane emissions from dairy farms by anaerobic digestion of cattle waste. Waste Management, 2011, 31, 1745-1751.	3.7	43
30	Management of household bulky waste in England. Resources, Conservation and Recycling, 2007, 51, 78-92.	5.3	42
31	Mass transfer and gas–liquid interface properties of single CO2 bubbles rising in tap water. Chemical Engineering Science, 2016, 140, 171-178.	1.9	40
32	Analysis of energy footprints associated with recycling of glass and plastic—case studies for industrial ecology. Ecological Modelling, 2004, 174, 175-189.	1.2	39
33	Influence of ammonia in the anaerobic digestion of food waste. Journal of Environmental Chemical Engineering, 2017, 5, 5131-5142.	3.3	39
34	Continuous operation of thermophilic food waste digestion with side-stream ammonia stripping. Bioresource Technology, 2017, 244, 611-620.	4.8	36
35	Improving the performance of enzymes in hydrolysis of high solids paper pulp derived from MSW. Biotechnology for Biofuels, 2013, 6, 107.	6.2	34
36	The role of phase separation and feed cycle length in leach beds coupled to methanogenic reactors for digestion of a solid substrate (Part 1): Optimisation of reactors' performance. Bioresource Technology, 2012, 103, 56-63.	4.8	32

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37	Anaerobic granular reactors for the treatment of dairy wastewater: A review. International Journal of Dairy Technology, 2015, 68, 459-470.	1.3	30
38	The potential for facilitating spring discharge from continental climate waste stabilisation ponds by carry-over of treated wastewater: concepts and experimental findings. Water Science and Technology, 2007, 55, 219-227.	1.2	29
39	Investigation of the impact of trace elements on anaerobic volatile fatty acid degradation using a fractional factorial experimental design. Water Research, 2017, 125, 458-465.	5.3	28
40	Mercury in the River Nura and its floodplain, Central Kazakhstan: II. Floodplain soils and riverbank silt deposits. Science of the Total Environment, 2000, 260, 45-55.	3.9	27
41	Biphasic production of hydrogen and methane from waste lactose in cyclic-batch reactors. Journal of Cleaner Production, 2010, 18, S95-S104.	4.6	27
42	Cultivation and anaerobic digestion of Scenedesmus spp. grown in a pilot-scale open raceway. Algal Research, 2014, 5, 95-102.	2.4	27
43	Comparative testing of energy yields from micro-algal biomass cultures processed via anaerobic digestion. Renewable Energy, 2016, 87, 744-753.	4.3	27
44	Energy Balance of Biogas Production from Microalgae: Effect of Harvesting Method, Multiple Raceways, Scale of Plant and Combined Heat and Power Generation. Journal of Marine Science and Engineering, 2017, 5, 9.	1.2	25
45	Anaerobic digestion of maize in coupled leach-bed and anaerobic filter reactors. Water Science and Technology, 2008, 58, 1505-1511.	1.2	24
46	Development of a coarse membrane bioreactor for two-stage anaerobic digestion of biodegradable municipal solid waste. Water Science and Technology, 2009, 59, 729-735.	1.2	24
47	<i>In situ</i> biogas stripping of ammonia from a digester using a gas mixing system. Environmental Technology (United Kingdom), 2017, 38, 3216-3224.	1.2	24
48	Antifoam, dilution and trace element addition as foaming control strategies in mesophilic anaerobic digestion of sugar beet pulp. International Biodeterioration and Biodegradation, 2019, 145, 104812.	1.9	24
49	Estimating the Generation of Garden Waste in England and the Differences between Rural and Urban Areas. Resources, 2020, 9, 8.	1.6	23
50	The role of phase separation and feed cycle length in leach beds coupled to methanogenic reactors for digestion of a solid substrate (Part 2): Hydrolysis, acidification and methanogenesis in a two-phase system. Bioresource Technology, 2011, 102, 7393-7400.	4.8	22
51	Simultaneous biomethanisation of endogenous and imported CO2 in organically loaded anaerobic digesters. Applied Energy, 2019, 247, 670-681.	5.1	21
52	Disc Stack Centrifugation Separation and Cell Disruption of Microalgae: A Technical Note. Environment and Natural Resources Research, 2011, 1, .	0.1	20
53	Wastewater reuse in central Asia: implications for the design of pond systems. Water Science and Technology, 2007, 55, 85-93.	1.2	17
54	Quantification of methane losses from the acclimatisation of anaerobic digestion to marine salt concentrations. Renewable Energy, 2016, 86, 497-506.	4.3	17

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55	Optimisation of biogas yields from anaerobic digestion by feedstock type. , 2013, , 131-165.		15
56	Assessment of the potential for biogas production from wheat straw leachate in upflow anaerobic sludge blanket digesters. Water Science and Technology, 2012, 66, 2737-2744.	1.2	13
57	Thermophilic Digestion of Food Waste by Dilution: Ammonia Limit Values and Energy Considerations. Energy & Fuels, 2017, 31, 10890-10900.	2.5	13
58	Energy Balance of Biogas Production from Microalgae: Development of an Energy and Mass Balance Model. Current Biotechnology, 2016, 4, 554-567.	0.2	13
59	Predicting pH rise as a control measure for integration of CO2 biomethanisation with anaerobic digestion. Applied Energy, 2020, 277, 115535.	5.1	11
60	Worsening of the Aral Basin Crisis: Can There Be a Solution?. Journal of Water Resources Planning and Management - ASCE, 1999, 125, 363-368.	1.3	10
61	Data related to anaerobic digestion of bioplastics: Images and properties of digested bioplastics and digestate, synthetic food waste recipe and packaging information. Data in Brief, 2019, 25, 103990.	0.5	10
62	Semi-continuous anaerobic digestion of the marine micro-algal species I. galbana and D. salina grown under low and high sulphate conditions. Algal Research, 2019, 41, 101564.	2.4	10
63	Integration of on-farm biodiesel production with anaerobic digestion to maximise energy yield and greenhouse gas savings from process and farm residues. Bioresource Technology, 2011, 102, 7784-7793.	4.8	8
64	Evaluation of microporous hollow fibre membranes for mass transfer of H <sub>2</sub> into anaerobic digesters for biomethanization. Journal of Chemical Technology and Biotechnology, 2019, 94, 2693-2701.	1.6	8
65	Particle Size Distribution in Municipal Solid Waste Pre-Treated for Bioprocessing. Resources, 2019, 8, 166.	1.6	8
66	Estimating the Methane Potential of Energy Crops: An Overview on Types of Data Sources and Their Limitations. Processes, 2021, 9, 1565.	1.3	8
67	Biocycle anaerobic digester: performance and benefits. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2011, 164, 141-150.	0.9	7
68	Effect of increasing the organic loading rate on the co-digestion and mono-digestion of cattle slurry and maize. Water Science and Technology, 2012, 66, 2336-2342.	1.2	7
69	Effect of mean cell residence time on transmembrane flux, mixed-liquor characteristics and overall performance of a submerged anaerobic membrane bioreactor. Environmental Technology (United) Tj ETQq1 1 (	0.78 <b>£</b> 314 r	gB77/Overloc
70	Algal wastewater treatment systems for seasonal climates: Application of a simple modelling approach to generate local and regional design guidelines. Water Research, 2012, 46, 2307-2323.	5.3	6
71	Potential for Biomethanisation of CO2 from Anaerobic Digestion of Organic Wastes in the United Kingdom. Processes, 2022, 10, 1202.	1.3	6
72	Calibration of a simple model for waste stabilisation pond performance in seasonal climates. Water Science and Technology, 2011, 64, 1488-1496.	1.2	5

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73	Effect of Pasteurisation on Methane Yield from Food Waste and Other Substrates in Anaerobic Digestion. Processes, 2020, 8, 1351.	1.3	5
74	A Rapid, Sensitive, Low-Cost Assay for Detecting Hydrogenotrophic Methanogens in Anaerobic Digesters Using Loop-Mediated Isothermal Amplification. Microorganisms, 2020, 8, 740.	1.6	5
75	Development and testing of a fully gravitational submerged anaerobic membrane bioreactor for wastewater treatment. Environmental Technology (United Kingdom), 2015, 36, 2328-2339.	1.2	4
76	Impact of low loading on digestion of the mechanically-separated organic fraction of municipal solid waste. Waste Management, 2020, 107, 101-112.	3.7	4
77	Mass and energy balance for a rotating-drum composting plant. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2011, 164, 151-159.	0.9	3
78	Effectiveness of pressurised carbon dioxide for inactivation of Escherichia coli isolated from sewage sludge. Water Science and Technology, 2012, 65, 1759-1764.	1.2	3
79	Seasonally loaded waste stabilisation ponds: a novel application for intermittent discharge. Water Science and Technology, 2012, 66, 1893-1899.	1.2	3
80	Seasonal Yield and Fuel Consumed for Domestic, Organic Waste Collections in Currently Operational Door-to-Door and Bring-Type Collection Systems. Waste and Biomass Valorization, 2013, 4, 683-693.	1.8	3
81	Dynamic changes in anaerobic digester metabolic pathways and microbial populations during acclimatisation to increasing ammonium concentrations. Waste Management, 2021, 135, 409-419.	3.7	3
82	Light attenuation parameters for waste stabilisation ponds. Water Science and Technology, 2005, 51, 143-52.	1.2	3
83	Influence of annual climate variability on design and operation of waste stabilisation ponds for continental climates. Water Science and Technology, 2007, 55, 37-46.	1.2	2
84	Operation and recovery of a seasonally-loaded UK waste stabilisation pond system. Water Science and Technology, 2013, 67, 1105-1112.	1.2	2
85	Anaerobic digestion of spring and winter wheat: Comparison of net energy yields. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 1084-1089.	0.9	2
86	Operation of Submerged Anaerobic Membrane Bioreactors at 20 °C: Effect of Solids Retention Time on Flux, Mixed Liquor Characteristics and Performance. Processes, 2021, 9, 1525.	1.3	2
87	Effect of solid and liquid retention times on hydrolysis of maize. Water Science and Technology, 2008, 58, 1371-1378.	1.2	1
88	Treatment of seasonal wastewater flows in a two-pond system. Biosystems Engineering, 2013, 115, 408-414.	1.9	1
89	Investigating the hydrodynamic performance of carbonation sumps in High Rate Algal Pond (HRAP)raceways using computational fluid dynamics (CFD). Biofuels, 2014, 5, 723-739.	1.4	1
90	Modelling fuel consumption in kerbside source segregated food waste collection: separate collection and co-collection. Environmental Technology (United Kingdom), 2015, 36, 3013-3021.	1.2	1

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91	Use of a Hydraulic Flush Reactor in a Two-Stage Anaerobic Digestion Process for Biodegradable Municipal Waste. Environmental Engineering Science, 2009, 26, 1599-1606.	0.8	0
92	Evaluation of pressurised carbon dioxide pre-treatment aimed at improving the sanitisation and anaerobic digestibility of co-settled sewage sludge. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 261-268.	0.9	0