

Matthew J Higgins

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,933
citations

516215

16
h-index

552369

26
g-index

32
all docs

32
docs citations

32
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Examination of three theories for mechanisms of cation-induced bioflocculation. <i>Water Research</i> , 2002, 36, 527-538.	5.3	448
2	Characterization of Exocellular Protein and Its Role in Bioflocculation. <i>Journal of Environmental Engineering, ASCE</i> , 1997, 123, 479-485.	0.7	340
3	The effect of cations on the settling and dewatering of activated sludges: Laboratory results. <i>Water Environment Research</i> , 1997, 69, 215-224.	1.3	266
4	Cycling of Volatile Organic Sulfur Compounds in Anaerobically Digested Biosolids and its Implications for Odors. <i>Water Environment Research</i> , 2006, 78, 243-252.	1.3	173
5	Dewatering and settling of activated sludges: The case for using cation analysis. <i>Water Environment Research</i> , 1997, 69, 225-232.	1.3	118
6	Reactivation and growth of non-culturable indicator bacteria in anaerobically digested biosolids after centrifuge dewatering. <i>Water Research</i> , 2007, 41, 665-673.	5.3	102
7	Pretreatment of a primary and secondary sludge blend at different thermal hydrolysis temperatures: Impacts on anaerobic digestion, dewatering and filtrate characteristics. <i>Water Research</i> , 2017, 122, 557-569.	5.3	94
8	Post-anaerobic digestion thermal hydrolysis of sewage sludge and food waste: Effect on methane yields, dewaterability and solids reduction. <i>Water Research</i> , 2018, 132, 158-166.	5.3	68
9	Role of Protein, Amino Acids, and Enzyme Activity on Odor Production from Anaerobically Digested and Dewatered Biosolids. <i>Water Environment Research</i> , 2008, 80, 127-135.	1.3	50
10	Case Study I: Application of the Divalent Cation Bridging Theory to Improve Biofloc Properties and Industrial Activated Sludge System Performance-direct Addition Of Divalent Cations. <i>Water Environment Research</i> , 2004, 76, 344-352.	1.3	40
11	Anaerobically digested biosolids odor generation and pathogen indicator regrowth after dewatering. <i>Water Research</i> , 2011, 45, 2616-2626.	5.3	39
12	Current status and perspectives on anaerobic co-digestion and associated downstream processes. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1759-1770.	1.2	36
13	DNA extraction and <i>Escherichia coli</i> quantification of anaerobically digested biosolids using the competitive touchdown PCR method. <i>Water Research</i> , 2006, 40, 3037-3044.	5.3	34
14	Generation Pattern of Sulfur Containing Gases from Anaerobically Digested Sludge Cakes. <i>Water Environment Research</i> , 2006, 78, 821-827.	1.3	26
15	The Role of Shear in the Generation of Nuisance Odors from Dewatered Biosolids. <i>Proceedings of the Water Environment Federation</i> , 2004, 2004, 376-388.	0.0	21
16	Case Study II: Application of the Divalent Cation Bridging Theory to Improve Biofloc Properties and Industrial Activated Sludge System Performance-Using Alternatives to Sodium-Based Chemicals. <i>Water Environment Research</i> , 2004, 76, 353-359.	1.3	16
17	Multistaged Anaerobic Sludge Digestion Processes. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 746-753.	0.7	15
18	The Effect of Digestion and Dewatering on Sudden Increases and Regrowth of Indicator Bacteria after Dewatering. <i>Water Environment Research</i> , 2011, 83, 773-783.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Effect of Chemical addition on Production of Volatile Sulfur Compounds and Odor from Anaerobically Digested Biosolids. Proceedings of the Water Environment Federation, 2002, 2002, 454-467.	0.0	8
20	Effects of post anaerobic digestion thermal hydrolysis on dewaterability and moisture distribution in digestates. Water Science and Technology, 2019, 80, 1338-1346.	1.2	7
21	Do Alternate Bacterial Indicators and Pathogens Increase after Centrifuge Dewatering of Anaerobically Digested Biosolids?. Water Environment Research, 2011, 83, 2057-2066.	1.3	5
22	Impacts of feed dilution and lower solids retention time on performance of thermal hydrolysis/anaerobic digestion. Water Environment Research, 2019, 91, 386-398.	1.3	5
23	FOR YOUR FLOC'S SAKE: CHOOSING ALTERNATIVES TO SODIUM BASED CHEMICALS. Proceedings of the Water Environment Federation, 2000, 2000, 22-35.	0.0	3
24	The Effect of Aluminum Sulfate Addition on Production of Volatile Organic Sulfur Compounds from Anaerobically Digested Biosolids. Water Practice, 2007, 1, 1-13.	0.1	3
25	Effect of Feeding Patterns on the Performance of Activated Sludge Systems. Water Environment Research, 2011, 83, 507-514.	1.3	3
26	The Link between Odors and Regrowth of Fecal Coliforms after Dewatering. Proceedings of the Water Environment Federation, 2008, 2008, 559-566.	0.0	1
27	WERF Phase 2: The Impact of Shear During Biosolids Dewatering on Reactivation and Regrowth of Non-Culturable Indicator Bacteria. Proceedings of the Water Environment Federation, 2007, 2007, 3591-3602.	0.0	0
28	Bench Scale Evaluation of Two Enhanced Digestion Processes: Enhanced Enzymic Hydrolysis and Dual Digestion. Proceedings of the Water Environment Federation, 2008, 2008, 591-604.	0.0	0
29	A comparison of two multi stage anaerobic digestion processes: 4 stage-thermophilic and 4 stage-anaerobic digestion with tapered temperature. Proceedings of the Water Environment Federation, 2008, 2008, 605-618.	0.0	0
30	A study of four-stage thermophilic anaerobic digestion. Proceedings of the Water Environment Federation, 2008, 2008, 319-333.	0.0	0
31	Impact of anaerobically digested biosolids characteristics and handling conditions on dewatering performance at multiple facilities. Water Environment Research, 2020, 92, 347-358.	1.3	0
32	Exploring the impact of bulk and substrate physics on hydrolysis rates and biogas yields of anaerobic digesters pretreated with thermal hydrolysis. Water Environment Research, 2020, 92, 378-388.	1.3	0