

ANAEROBIC DIGESTION AS A TOOL TO REDUCE ANTHROPOGENIC IMPACTS ON AQUATIC ECOSYSTEMS

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SUPPLEMENTARY MATERIAL

Table S1. List of articles included in the systematic review.

N	Article Title	Author Full Names	Publication Year	Source Title	DOI
1	Effect of coupling alkaline pretreatment and sewage sludge co-digestion on methane production and fertilizer potential of digestate	Elalami, Doha; Monlau, Florian; Carrere, Helene; Abdelouahdi, Karima; Oukarroum, Abdallah; Zeroual, Youssef; Barakat, Abdellatif	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2020.140670
2	In-situ CO ₂ sequestration and nutrients removal in an anaerobic digestion-microbial electrolysis cell by silicates application: Effect of dosage and biogas circulation	Zhang, Yan; Gong, Linlin; Jiang, Qianqian; Cui, Min-Hua; Zhang, Jie; Lie, He	2020	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2020.125680
3	Coupling biogas recirculation with FeCl ₃ addition in anaerobic digestion system for simultaneous biogas upgrading, phosphorus conservation and sludge conditioning	Yuan, Tian; Wang, Yinxin; Nuramkhaan, Marjangul; Wang, Xuezhi; Zhang, Zhenya; Lei, Zhongfang; Shimizu, Kazuya; Utsumi, Motoo; Adachi, Yasuhisa; Lee, Duu-Jong	2020	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2020.123811
4	Efficiency of hydrothermal pretreatment on the anaerobic digestion of pelagic Sargassum for biogas and fertiliser recovery	Thompson, Terrell M.; Young, Brent R.; Baroutian, Saeid	2020	FUEL	10.1016/j.fuel.2020.118527
5	Valorization of maize silage digestate from two-stage anaerobic digestion by hydrothermal carbonization	Cao, Zebin; Huelsemann, Benedikt; Wuest, Dominik; Illi, Lukas; Oechsner, Hans; Kruse, Andrea	2020	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2020.113218
6	Mesophilic anaerobic digestion of thermally hydrolyzed sludge in anaerobic membrane bioreactor: Long-term performance, microbial community dynamics and membrane fouling mitigation	Niu, Chengxin; Pan, Yang; Lu, Xueqin; Wang, Shasha; Zhang, Zhongyi; Zheng, Chaoting; Tan, Yujie; Zhen, Guangyin; Zhao, Youcai; Li, Yu-You	2020	JOURNAL OF MEMBRANE SCIENCE	10.1016/j.memsci.2020.118264

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7	Comparison of methanogenic potential of wood vinegar with gradient loads in batch and continuous anaerobic digestion and microbial community analysis	Hua, Dongliang; Fan, Qingwen; Zhao, Yuxiao; Xu, Haipeng; Chen, Lei; Li, Yan	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2020.139943
8	Ammonia capture with biogas purification from anaerobically digested poultry litter	Witarsa, Freddy; Lupitsky, Robert; Moss, Andrew; Kulow, Anna; Lansing, Stephanie		JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	10.1002/jctb.6557
9	Anaerobic digestibility of up-concentrated organic matter obtained from direct membrane filtration of municipal wastewater	Hafuka, Akira; Takahashi, Taketsugu; Kimura, Katsuki	2020	BIOCHEMICAL ENGINEERING JOURNAL	10.1016/j.bej.2020.107692
10	Anaerobic digestion of poultry litter - A consequential life cycle assessment	Beausang, Ciara; McDonnell, Kevin; Murphy, Fionnuala	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2020.139494
11	In Situ Biogas Upgrading and Fertilizer Recovery in Anaerobic Digestion from Laminaria Hydrothermal Carbonization Process Water by Fe-Modified Hydrochar	Wang, Fengbo; Wang, Jing; Han, Ying; Lu, Jingping; Zan, Shuaijun; Du, Miaomiao	2020	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	10.1021/acssuschemeng.0c02996
12	Effects of different forms of vegetable waste on biogas and methane production performances in a batch anaerobic digestion reactor	Tang, Binbin; He, Mimi; Dong, Yaojun; Liu, Jianfeng; Zhao, Xingling; Wang, Changmei; Wu, Kai; Yin, Fang; Zhang, Wudi		ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	10.1080/15567036.2020.1818003
13	A Microalgae-Methanotroph Coculture is a Promising Platform for Fuels and Chemical Production From Wastewater	Roberts, Nathan; Hilliard, Matthew; He, Q. Peter; Wang, Jin	2020	FRONTIERS IN ENERGY RESEARCH	10.3389/fenrg.2020.563352
14	Combining thermophilic aerobic reactor (TAR) with mesophilic anaerobic digestion (MAD) improves the degradation of pharmaceutical compounds	Gonzalez-Salgado, I.; Cavaille, L.; Dubos, S.; Mengelle, E.; Kim, C.; Bounouba, M.; Paul, E.; Pommier, S.; Bessiere, Y.	2020	WATER RESEARCH	10.1016/j.watres.2020.116033

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15	Pilot study of thermal alkaline pretreatment of waste activated sludge: Seasonal effects on anaerobic digestion and impact on dewaterability and refractory COD	Toutian, Vahid; Barjenbruch, Matthias; Loderer, Christian; Remy, Christian	2020	WATER RESEARCH	10.1016/j.watres.2020.115910
16	Anaerobic digestion of textile industries wastes for biogas production	Kumar, Pushpendar; Samuchiwal, Saurabh; Malik, Anushree	2020	BIOMASS CONVERSION AND BIOREFINERY	10.1007/s13399-020-00601-8
17	Optimizing Methane Production from Co-digestion of Cassava Biomass and Winery Solid Waste Using Response Surface Methodology	Mkruqulwa, Unathi; Okudoh, Vincent; Oyekola, Oluwaseun	2020	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-019-00801-y
18	Assessment of organic loading rate by using a water tank digester for biogas production in Bangladesh	Nasiruddin, Sayed Mohammad; Li, Zifu; Mang, Heinz-Peter; Uddin, Sayed Mohammad Nazim; Zhou, Xiaoqin; Cheng, Shikun; Wang, Xuemei	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2020.121688
19	Commercial viability of integrated waste treatment in cassava starch industries for targeted resource recoveries	Padi, Richard Kingsley; Chimphango, Annie	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2020.121619
20	Cultivation of microalgae for biofuel production: coupling with sugarcane-processing factories	Zewdie, Deribew Tefera; Ali, Abubeker Yimam	2020	ENERGY SUSTAINABILITY AND SOCIETY	10.1186/s13705-020-00262-5
21	Two-stage anaerobic digestion of orange peel without pre-treatment: Experimental evaluation and application to Sao Paulo state	Jimenez-Castro, Maria Paula; Buller, Luz Selene; Zoffreo, Alexis; Timko, Michael T.; Forster-Carneiro, Tania	2020	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	10.1016/j.jece.2020.104035
22	Thermophilic vs. mesophilic anaerobic digestion of waste activated sludge: Modelling and energy balance for its applicability at a full scale WWTP	Ruffino, Barbara; Cerutti, Alberto; Campo, Giuseppe; Scibilia, Gerardo; Lorenzi, Eugenio; Zanetti, Mariachiara	2020	RENEWABLE ENERGY	10.1016/j.renene.2020.04.068

N	Article Title	Author Full Names	Publication Year	Source Title	DOI
23	Techno-economic and environmental assessment of the main biogas upgrading technologies	Lombardi, Lidia; Francini, Giovanni	2020	RENEWABLE ENERGY	10.1016/j.renene.2020.04.083
24	The effect of seasonality in biogas production in full-scale UASB reactors treating sewage in long-term assessment	Melo, Deborah de Freitas; Neves, Priscila Natalie; Bressani-Ribeiro, Thiago; de Lemos Chernicharo, Carlos Augusto; Passos, Fabiana		INTERNATIONAL JOURNAL OF SUSTAINABLE ENERGY	10.1080/14786451.2020.1797741
25	The recycling of biodigested vinasse in an upflow anaerobic sludge blanket reactor is a feasible approach for the conservation of freshwater in the biofuel ethanol industry	Madaleno, Leonardo Lucas; de Barros, Valciney Gomes; Kesserling, Mayara Aparecida; Teixeira, Josiene Rocha; Duda, Rose Maria; de Oliveira, Roberto Alves	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2020.121196
26	Environmental and cost benefits of co-digesting food waste at wastewater treatment facilities	Morelli, Ben; Cashman, Sarah; Ma, Xin (Cissy); Turgeon, Jason; Arden, Sam; Garland, Jay	2020	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2020.104
27	Full-scale semi-centralized wastewater treatment facilities for resource recovery: operation, problems and resolutions	Tang, Xianchun; Wen, Yexuan; He, Yi; Jiang, Haixin; Dai, Xiaohu; Bi, Xuejun; Wagner, Martin; Chen, Hongbin	2020	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2020.169
28	Multilevel environmental assessment of the anaerobic treatment of dairy processing effluents in the context of circular economy	Stanchev, P.; Vasilaki, V.; Egas, D.; Colon, J.; Ponsa, S.; Katsou, E.	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2020.121139
29	Anaerobic digestion of spectinomycin mycelial residues pretreated by thermal hydrolysis: removal of spectinomycin and enhancement of biogas production	Song, Siqi; Jiang, Mingye; Yao, Jie; Liu, Huiling; Dai, Xiaohu	2020	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-020-09985-6
30	Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using	Salama, Abeer M.; Helmy, E. A.; Abd El-ghany, Tarek M.; Ganash, Magdah		WASTE AND BIOMASS VALORIZATION	10.1007/s12649-020-01144-9

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	Certain Wastewater Bacteria and Aquatic Macrophytes Biomass				
31	Effects of Ammonia Stripping and Other Physico-Chemical Pretreatments on Anaerobic Digestion of Swine Wastewater	Folino, Adele; Calabro, Paolo Salvatore; Zema, Demetrio Antonio	2020	ENERGIES	10.3390/en13133413
32	Effect of blending hydrogen to biogas fuel driven from anaerobic digestion of wastewater on the performance of a solid oxide fuel cell system	Mehr, A. S.; Moharramian, A.; Hossainpour, S.; Pavlov, Denis A.	2020	ENERGY	10.1016/j.energy.2020.117668
33	Toward achieving sustainable management of municipal wastewater sludge in Egypt: The current status and future prospective	Wahaab, Rifaat Abdel; Mahmoud, Mohamed; van Lier, Jules B.	2020	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	10.1016/j.rser.2020.109880
34	Fate of Biodegradable Polymers Under Industrial Conditions for Anaerobic Digestion and Aerobic Composting of Food Waste	Bandini, F.; Frache, A.; Ferrarini, A.; Taskin, E.; Cocconcelli, P. S.; Puglisi, Edoardo	2020	JOURNAL OF POLYMERS AND THE ENVIRONMENT	10.1007/s10924-020-01791-y
35	Environmental and Economic Analysis of an Anaerobic Co-Digestion Power Plant Integrated with a Compost Plant	Hamedani, Sara Rajabi; Villarini, Mauro; Colantoni, Andrea; Carlini, Maurizio; Cecchini, Massimo; Santoro, Francesco; Pantaleo, Antonio	2020	ENERGIES	10.3390/en13112724
36	Producing Biohythane from Urban Organic Wastes	Bolzonella, David; Micolucci, Federico; Battista, Federico; Cavinato, Cristina; Gottardo, Marco; Piovesan, Stefano; Pavan, Paolo	2020	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-018-00569-7

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37	Effect of ultrasound irradiation combined with ozone pretreatment on the anaerobic digestion for the biosludge exposed to trace-level levofloxacin: Degradation, microbial community and ARGs analysis	Zhao, Qian; Li, Mei; Zhang, Kefeng; Wang, Ning; Wang, Kaikai; Wang, Hongbo; Meng, Shujuan; Mu, Ruimin	2020	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2020.110356
38	Biogas from Tannery Solid Waste Anaerobic Digestion Is Driven by the Association of the Bacterial Order Bacteroidales and Archaeal Family Methanosaetaceae	Agustini, Caroline Borges; da Costa, Marisa; Gutterres, Mariliz	2020	APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY	10.1007/s12010-020-03326-6
39	Impact of Nanoscale Magnetite and Zero Valent Iron on the Batch-Wise Anaerobic Co-Digestion of Food Waste and Waste-Activated Sludge	Kassab, Ghada; Khater, Dima; Odeh, Fadwa; Shatanawi, Khaldoun; Halalsheh, Maha; Arafah, Mazen; van Lier, Jules B.	2020	WATER	10.3390/w12051283
40	Wastewater Reclamation in Major Jordanian Industries: A Viable Component of a Circular Economy	Saidan, Motasem N.; Al-Addous, Mohammad; Al-Weshah, Radwan A.; Obada, Ibrahim; Alkasrawi, Malek; Barbana, Nesrine	2020	WATER	10.3390/w12051276
41	Decision-Making Process in the Circular Economy: A Case Study on University Food Waste-to-Energy Actions in Latin America	Brenes-Peralta, Laura; Jimenez-Morales, Maria E.; Campos-Rodriguez, Rooel; De Menna, Fabio; Vittuari, Matteo	2020	ENERGIES	10.3390/en13092291
42	Integrated water, waste and energy management systems - A case study from Curauma, Chile	Vergara-Araya, Monica; Lehn, Helmut; Poganietz, Witold-Roger	2020	RESOURCES CONSERVATION AND RECYCLING	10.1016/j.resconrec.2020.104725
43	Determination of Various Parameters during Thermal and Biological Pretreatment of Waste Materials	Hren, Robert; Petrovic, Aleksandra; Cucek, Lidija; Simoncic, Marjana	2020	ENERGIES	10.3390/en13092262

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44	An integrated anaerobic system for on-site treatment of wastewater from food waste disposer	Hu, Yong; Shi, Chen; Kobayashi, Takuro; Xu, Kai-Qin	2020	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-019-06651-4
45	Evaluation of bioenergy potential from citrus effluents through anaerobic digestion	Rosas-Mendoza, E. S.; Mendez-Contreras, J. M.; Aguilar-Lasserre, A. A.; Vallejo-Cantu, N. A.; Alvarado-Lassman, A.	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2020.120128
46	Quantification of renewable electricity generation in the Australian water industry	Strazzabosco, A.; Kenway, S. J.; Lant, P. A.	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2020.120119
47	Sieving of municipal wastewater and recovery of bio-based volatile fatty acids at pilot scale	Da Ros, Cinzia; Conca, Vincenzo; Eusebi, Anna Laura; Frison, Nicola; Fatone, Francesco	2020	WATER RESEARCH	10.1016/j.watres.2020.115633
48	Novel approach for the treatment of the organic fraction of municipal solid waste: Coupling thermal hydrolysis with anaerobic digestion and photo-fermentation	Allegue, Luis D.; Puyol, Daniel; Melero, Juan Antonio	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2020.136845
49	Impact of low loading on digestion of the mechanically-separated organic fraction of municipal solid waste	Zhang, Wei; Venetsaneas, Nikolaos; Heaven, Sonia; Banks, Charles J.	2020	WASTE MANAGEMENT	10.1016/j.wasman.2020.03.016
50	Operational strategy of high rate anaerobic digester with mixed organic wastes: effect of co-digestion on biogas yield at full scale	Begum, Sameena; Ahuja, Shruti; Anupoju, Gangagni Rao; Ahuja, Devender Kumar; Arelli, Vijayalakshmi; Juntupally, Sudharshan	2020	ENVIRONMENTAL TECHNOLOGY	10.1080/09593330.2018.1523232
51	The Effect of the Addition of a Fat Emulsifier on the Amount and Quality of the Obtained Biogas	Sikora, Jakub; Niemiec, Marcin; Szelag-Sikora, Anna; Grodek-Szostak, Zofia; Kubon, Maciej; Komorowska, Monika	2020	ENERGIES	10.3390/en13071825

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52	Mechanical separation of impurities in biowaste: Comparison of four different pretreatment systems	Alessi, Alessia; Lopes, Alice do Carmo Precci; Mueller, Wolfgang; Gerke, Frederic; Robra, Sabine; Bockreis, Anke	2020	WASTE MANAGEMENT	10.1016/j.wasman.2020.03.006
53	Biomethane production using an integrated anaerobic digestion, gasification and CO2 biomethanation process in a real waste water treatment plant: A techno-economic assessment	Michailos, Stavros; Walker, Mark; Moody, Adam; Poggio, Davide; Pourkashanian, Mohamed	2020	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2020.112663
54	A comparative study of mesophilic and thermophilic anaerobic digestion of municipal sludge with high-solids content: Reactor performance and microbial community	Wu, Zong-Lin; Lin, Zhi; Sun, Zhao-Yong; Gou, Min; Xia, Zi-Yuan; Tang, Yue-Qin	2020	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2020.122851
55	Membrane Processes for Resource Recovery from Anaerobically Digested Livestock Manure Effluent: Opportunities and Challenges	Zhang, Zhiye; Xu, Zhicheng; Song, Xiaoye; Zhang, Bangxi; Li, Guoxue; Huda, Nazmul; Luo, Wenhai	2020	CURRENT POLLUTION REPORTS	10.1007/s40726-020-00143-7
56	Energy and phosphorous recovery through hydrothermal carbonization of digested sewage sludge	Marin-Batista, J. D.; Mohedano, A. F.; Rodriguez, J. J.; de la Rubia, M. A.	2020	WASTE MANAGEMENT	10.1016/j.wasman.2020.03.004
57	Comparative exergy assessment of vinasse disposal alternatives: Concentration, anaerobic digestion and fertirrigation	Nakashima, R. N.; de Oliveira Junior, S.	2020	RENEWABLE ENERGY	10.1016/j.renene.2019.09.124
58	Effects of thermal and thermal-alkaline pretreatments on continuous anaerobic sludge digestion: Performance, energy balance and, enhancement mechanism	Chen, Hong; Yi, Hao; Li, Hechao; Guo, Xuesong; Xiao, Benyi	2020	RENEWABLE ENERGY	10.1016/j.renene.2019.10.051

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59	Steam Explosion Pretreatment of Sludge for Pharmaceutical Removal and Heavy Metal Release to Improve Biodegradability and Biogas Production	Aski, Abolfazl Lotfi; Borghei, Alimohammad; Zenouzi, Ali; Ashrafi, Nariman; Taherzadeh, Mohammad J.	2020	FERMENTATION-BASEL	10.3390/fermentation6010034
60	The impact of chemically enhanced primary treatment on the downstream liquid and solid train processes	Shewa, Wudneh A.; Dong, Tianchen; Mu, Wenjuan; Murray, Kyle; Dagnew, Martha	2020	WATER ENVIRONMENT RESEARCH	10.1002/wer.1170
61	Enhancement of Sewage Sludge Bioconversion to Methane by the Addition of Exhausted Coffee Biowaste Liquid Fraction	Fragoso, Rita; Carvalho, Ana; Duarte, Elizabeth	2020	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-018-0486-4
62	Anaerobic digestion of livestock manure in cold regions: Technological advancements and global impacts	Yao, Yao; Huang, Gordon; An, Chunjiang; Chen, Xiujuan; Zhang, Peng; Xin, Xiaying; Shen, Jian; Agnew, Joy	2020	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	10.1016/j.rser.2019.109494
63	An urban biorefinery for food waste and biological sludge conversion into polyhydroxyalkanoates and biogas	Moretto, Giulia; Russo, Ivan; Bolzonella, David; Pavan, Paolo; Majone, Mauro; Valentino, Francesco	2020	WATER RESEARCH	10.1016/j.watres.2019.115371
64	Anaerobic digestion of sludge filtrate using anaerobic baffled reactor assisted by symbionts of short chain fatty acid-oxidation syntrophs and exoelectrogens: Pilot-scale verification	Wang, Tao; Zhu, Gefu; Li, Chunxing; Zhou, Mingdian; Wang, Ruming; Li, Junjie	2020	WATER RESEARCH	10.1016/j.watres.2019.115329
65	Minimization of energy demand in slaughterhouses: Estimated production of biogas generated from the effluent	Vilvert, Amanda Junkes; Saldeira Junior, Joaquim Carlos; Bautitz, Ivonete Rossi; Zenatti, Dilcemara Cristina; Andrade, Mauricio Guy; Hermes, Eliane	2020	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	10.1016/j.rser.2019.109613

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66	Downstream augmentation of hydrothermal carbonization with anaerobic digestion for integrated biogas and hydrochar production from the organic fraction of municipal solid waste: A circular economy concept	Sharma, Hari Bhakta; Panigrahi, Sagarika; Sarmah, Ajit K.; Dubey, Brajesh K.	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2019.135907
67	Co-digestion of palm oil mill effluent for enhanced biogas production in a solar assisted bioreactor: Supplementation with ammonium bicarbonate	Zaied, B. K.; Nasrullah, Mohd; Siddique, Md Nurul Islam; Zularisam, A. W.; Singh, Lakhveer; Krishnan, Santhana	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2019.136095
68	Feedstock thermal pretreatment selectively steers process stability during the anaerobic digestion of waste activated sludge	Law, Cindy Ka Y.; De Henau, Rens; De Vrieze, Jo	2020	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	10.1007/s00253-020-10472-8
69	Environmental impacts and economic benefits of different wastewater management schemes for molasses-based ethanol production: A case study of Thailand	Talang, Rutjaya Prateep Na; Sirivithayapakorn, Sanya	2020	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.119141
70	Anaerobic co-digestion of sewage sludge, food waste and yard waste: Synergistic enhancement on process stability and biogas production	Mu, Lan; Zhang, Lei; Zhu, Kongyun; Ma, Jiao; Ifran, Muhammad; Li, Aimin	2020	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2019.135429
71	Enhanced performance of anaerobic digestion of cephalosporin C fermentation residues by gamma irradiation-induced pretreatment	Hu, Yuming; Wang, Jianlong; Shen, Yunpeng	2020	JOURNAL OF HAZARDOUS MATERIALS	10.1016/j.jhazmat.2019.121335
72	Anaerobic digestion of sludge filtrate assisted by symbionts of short chain fatty acid-oxidation syntrophs and	Wang, Tao; Li, Chunxing; Wang, Lina; Zhou, Mingdian; Ning, Jing; Pan, Xiaofang; Zhu, Gefu	2020	JOURNAL OF HAZARDOUS MATERIALS	10.1016/j.jhazmat.2019.121222

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	exoelectrogens: Process performance, methane yield and microbial community				
73	Anaerobic co-digestion of the process water from waste activated sludge hydrothermally treated with primary sewage sludge. A new approach for sewage sludge management	Villamil, J. A.; Mohedano, A. F.; San Martin, J.; Rodriguez, J. J.; de la Rubia, M. A.	2020	RENEWABLE ENERGY	10.1016/j.renene.2019.06.138
74	Integrating the Bottom Ash Residue from Biomass Power Generation into Anaerobic Digestion To Improve Biogas Production from Lignocellulosic Biomass	Xiao, Qin; Chen, Wei; Tian, Dong; Shen, Fei; Hu, Jinguang; Long, Lulu; Zeng, Yongmei; Yang, Gang; Deng, Shihuai	2020	ENERGY & FUELS	10.1021/acs.energyfuels.9b01898
75	Sustainable energy for a winery through biogas production and its utilization: A Chilean case study	Montalvo, S.; Martinez, J.; Castillo, A.; Huiliner, C.; Borja, R.; Garcia, Veronica; Salazar, Ricardo	2020	SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS	10.1016/j.seta.2020.100640
76	Environmental assessment of energy production from anaerobic digestion of pig manure at medium-scale using life cycle assessment	Ramirez-Islas, Martha E.; Patricia Guereca, Leonor; Sosa-Rodriguez, Fabiola S.; Cobos-Peralta, Mario A.	2020	WASTE MANAGEMENT	10.1016/j.wasman.2019.10.012
77	Food wastes and sewage sludge as feedstock for an urban biorefinery producing biofuels and added-value bioproducts	Battista, Federico; Frison, Nicola; Pavan, Paolo; Cavinato, Cristina; Gottardo, Marco; Fatone, Francesco; Eusebi, Anna L.; Majone, Mauro; Zeppilli, Marco; Valentino, Francesco; Fino, Debora; Tommasi, Tonia; Bolzonella, David	2020	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	10.1002/jctb.6096
78	Acidogenesis/methanogenesis from acid cheese whey in hybrid-UASB reactors	Cardenas-Medina, K. N.; Fajardo-Ortiz, M. C.; Schettino-Bermudez, B. S.; Meraz-Rodriguez, M. A.; Castilla-Hernandez, P.	2020	REVISTA MEXICANA DE INGENIERIA QUIMICA	10.24275/rmiq/IA1420

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79	Methane Production from Hydrogen Peroxide Assisted Hydrothermal Pretreatment of Solid Fraction Sugarcane Bagasse	Ahmad, Fiaz; Sakamoto, Isabel Kimiko; Adorno, Maria Angela Tallarico; Motteran, Fabricio; Silva, Edson Luiz; Varesche, Maria Bernadete Amancio	2020	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-018-0452-1
80	An Integrated Process of Value Addition to Citrus Waste and Performance of Fenton Process for Its Conversion to Biogas	Magare, Mayur E.; Sahu, Nidhi; Kanade, G. S.; Chanotiya, Chandan S.; Thul, Sanjog T.	2020	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-018-0385-8
81	Enhancing biomethane recovery from source-diverted blackwater through hydrogenotrophic methanogenesis dominant pathway	Gao, Mengjiao; Zhang, Lei; Guo, Bing; Zhang, Yingdi; Liu, Yang	2019	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2019.122258
82	Enhanced methane production and syntrophic connection between microorganisms during semi-continuous anaerobic digestion of chicken manure by adding biochar	Pan, Junting; Ma, Junyi; Zhai, Limei; Liu, Hongbin	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.118178
83	Anaerobic co-digestion of olive mill solid waste and microalga <i>Scenedesmus quadricauda</i> : effect of different carbon to nitrogen ratios on process performance and kinetics	Fernandez-Rodriguez, M. J.; de la Lama-Calvente, D.; Jimenez-Rodriguez, A.; Borja, R.; Rincon-Llorente, B.	2019	JOURNAL OF APPLIED PHYCOLOGY	10.1007/s10811-019-01858-x
84	Bioremediation and Bioprospecting of Cow Dung and Poultry Droppings Enriched with Sewage Water for Biogas Production	Kumari, V. Jeyanthi	2019	JOURNAL OF PURE AND APPLIED MICROBIOLOGY	10.22207/JPAM.13.4.66
85	Elevated biogas production from the anaerobic co-digestion of farmhouse	Achinas, Spyridon; Euverink, Gerrit Jan Willem	2019	WASTE MANAGEMENT & RESEARCH	10.1177/0734242X19873383

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86	Evaluation of future food waste management alternatives in Istanbul from the life cycle assessment perspective	Guven, Huseyin; Wang, Zhao; Eriksson, Ola	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.117999
87	Biodegradation of Polyphenolic Compounds from Olive Mill Wastewaters (OMW) During Two-Stage Anaerobic Co-digestion of Agro-industrial Mixtures	Vavouraki, Aikaterini, I; Zakoura, Maria, V; Dareioti, Margarita A.; Kornaros, Michael	2020	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-019-00887-4
88	Spatio-temporal distribution of sewage sludge, its methane production potential, and a greenhouse gas emissions analysis	Fang, Yan Ru; Li, Songbo; Zhang, Yixuan; Xie, Guang Hui	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.117895
89	Experimental investigation on anaerobic co-digestion of food waste and water hyacinth in batch type reactor under mesophilic condition	Zala, Mayank; Solanki, Ravi; Bhale, Purnanand V.; Vaishak, S.	2020	BIOMASS CONVERSION AND BIOREFINERY	10.1007/s13399-019-00522-1
90	Effect of substituting organic fraction of municipal solid waste with fruit and vegetable wastes on anaerobic digestion	Salehiyoun, Ahmad Reza; Sharifi, Mohammad; Di Maria, Francesco; Zilouei, Hamid; Aghbashlo, Mortaza	2019	JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT	10.1007/s10163-019-00887-5
91	Anaerobic treatment of residuals from tanks transporting food and fodder	Van Than Nguyen; Beyer, Erik; Neumann, Jan; Awe, Dirk; Pfeiffer, Wolfgang; Traenckner, Jens	2019	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-018-3876-z
92	Treatment of Metformin-Containing Wastewater by a Hybrid Vertical Anaerobic Biofilm-Reactor (HyVAB)	Janka, Eshetu; Carvajal, Diego; Wang, Shuai; Bakke, Rune; Dinamarca, Carlos	2019	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	10.3390/ijerph16214125
93	Modeling & simulation studies on batch anaerobic digestion of hydrodynamically	Saxena, Shivendu; Saharan, Virendra Kumar; George, Suja	2019	ULTRASONICS SONOCHEMISTRY	10.1016/j.ultsonch.2019.104692

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	cavitated tannery waste effluent for higher biogas yield				
94	Thermal pretreatment to enhance biogas production of waste aerobic granular sludge with and without calcium phosphate precipitates	Liu, Yongqiang; Nilsen, Paal Jahre; Maulidiany, Nopa Dwi	2019	CHEMOSPHERE	10.1016/j.chemosphere.2019.06.104
95	Enhancing the co-digestion efficiency of sewage sludge and cheese whey using brewery spent grain as an additional substrate	Szaja, A.; Montusiewicz, A.	2019	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2019.12.1863
96	Synergistic methane production from the anaerobic co-digestion of <i>Spirulina platensis</i> with food waste and sewage sludge at high solid concentrations	Du, Xinrui; Tao, Yi; Li, Huan; Liu, Yueling; Feng, Kai	2019	RENEWABLE ENERGY	10.1016/j.renene.2019.04.062
97	Exploiting the unwanted: Sulphate reduction enables phosphate recovery from energy-rich sludge during anaerobic digestion	Lippens, Celine; De Vrieze, Jo	2019	WATER RESEARCH	10.1016/j.watres.2019.11.4859
98	Enhancement of anaerobic digestion of waste activated sludge by chemical pretreatment	Tulun, Sevket; Bilgin, Melayib	2019	FUEL	10.1016/j.fuel.2019.11.5671
99	Lab-scale anaerobic digestion of cassava peels: the first step of energy recovery from cassava waste and water hyacinth	Ahou, Yaovi Sylvestre; Angeli, Jean-Romain Bautista; Awad, Sary; Baba-Moussa, Lamine; Andres, Yves		ENVIRONMENTAL TECHNOLOGY	10.1080/09593330.2019.1670266
100	Urban biowaste valorization by coupling anaerobic digestion and single cell protein production	Khoshnevisan, Benyamin; Tsapekos, Panagiotis; Zhang, Yifeng; Valverde-Perez, Borja; Angelidaki, Irini	2019	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2019.12.1743

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101	Future biogas resource potential in India: A bottom-up analysis	Mittal, Shivika; Ahlgren, Erik O.; Shukla, P. R.	2019	RENEWABLE ENERGY	10.1016/j.renene.2019.03.133
102	Can we use Cd-contaminated macrophytes for biogas production?	Fernandes, Katiucia Dias; Canote, Susan Johana Benites; Ribeiro, Eruin Martusceli; Thiago Filho, Geraldo Lucio; Fonseca, Ana Lucia	2019	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-018-2318-2
103	Technological and management aspects of the anaerobic co-digestion of sewage sludge with vegetable and organic wastes	Neumann-Langdon, Patricio; Oviedo-Silva, Claudia; Suazo-Schwencke, Alvaro; Ramis-Lanyon, Francisco; Delgado-Neira, Pamela	2019	DYNA	10.6036/9079
104	Environmental performance of end-of-life handling alternatives for paper-and-pulp-mill sludge: Using digestate as a source of energy or for biochar production	Mohammadi, Ali; Sandberg, Maria; Venkatesh, G.; Eskandari, Samieh; Dalgaard, Tommy; Joseph, Stephen; Granstrom, Karin	2019	ENERGY	10.1016/j.energy.2019.06.065
105	Treatment of Amman Slaughterhouse Wastewater by Anaerobic Baffled Reactor	Al Smadi, Bashar M.; Al-Hayek, Wissam; Abu Hajar, Husam A.	2019	INTERNATIONAL JOURNAL OF CIVIL ENGINEERING	10.1007/s40999-019-00406-5
106	Valorisation of the selectively collected organic fractions of municipal solid waste in anaerobic digestion	Bernat, Katarzyna; Cydzik-Kwiatkowska, Agnieszka; Zielinska, Magdalena; Wojnowska-Baryla, Irena; Wersocka, Justyna	2019	BIOCHEMICAL ENGINEERING JOURNAL	10.1016/j.bej.2019.05.003
107	Enhancing effects of activated carbon supported nano zero-valent iron on anaerobic digestion of phenol-containing organic wastewater	Dong, Duo; Wang, Ruikun; Geng, Pengfei; Li, Chunxi; Zhao, Zhenghui	2019	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2019.04.062
108	Smart Approaches to Food Waste Final Disposal	Cecchi, Franco; Cavinato, Cristina	2019	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	10.3390/ijerph16162860

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109	Integration of subcritical water pretreatment and anaerobic digestion technologies for valorization of acai processing industries residues	Maciel-Silva, Francisco W.; Mussatto, Solange I.; Forster-Carneiro, Tania	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.04.362
110	Assessment of Batch and Semi-continuous Anaerobic Digestion of Food Waste at Psychrophilic Range at Different Food Waste to Inoculum Ratios and Organic Loading Rates	Munoz, Pedro	2019	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-018-0227-8
111	Alternatives for the management of pig slurry: Phosphorous recovery and biogas generation	Lujan-Facundo, M. J.; Iborra-Clar, M. I.; Mendoza-Roca, J. A.; Also-Jesus, M.	2019	JOURNAL OF WATER PROCESS ENGINEERING	10.1016/j.jwpe.2017.08.011
112	Benefits and drawbacks of food and dairy waste co-digestion at a high organic loading rate: A Moosburg WWTP case study	Sempera, Claire; Macintosh, Catherine; Astals, Sergi; Koch, Konrad	2019	WASTE MANAGEMENT	10.1016/j.wasman.2019.06.008
113	Biogas production from high solids anaerobic co-digestion of food waste, yard waste and waste activated sludge	Lee, Eunyoung; Bittencourt, Paula; Casimir, Lensey; Jimenez, Eduardo; Wang, Meng; Zhang, Qiong; Ergas, Sarina J.	2019	WASTE MANAGEMENT	10.1016/j.wasman.2019.06.033
114	Experimental investigation of methane gas generation using textile effluents	Sathish, S.; Samuel, G. Vijay; Balaji, K.; Kumar, A. John Presin		INTERNATIONAL JOURNAL OF AMBIENT ENERGY	10.1080/01430750.2019.1636878
115	Feasibility of anaerobic digestion on the release of biogas and heavy metals from rice straw pretreated with sodium hydroxide	Xin, Liqing; Guo, Zhaohui; Xiao, Xiyuan; Peng, Chi; Zeng, Peng; Feng, Wenli; Xu, Wenxuan	2019	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-019-05195-x
116	Enhancement of biohythane production from solid waste by co-digestion with	Mamimin, Chonticha; Kongjan, Prawit; O-Thong, Sompong; Prasertsan, Poonsuk	2019	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2019.03.275

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	palm oil mill effluent in two-stage thermophilic fermentation				
117	Improvement of the thermophilic anaerobic digestion and hygienisation of waste activated sludge by synergistic pretreatment	Grubel, Klaudiusz; Waclawek, Stanislaw; Kuglarz, Mariusz; Waclawek, Maria; Cernik, Miroslav	2019	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING	10.1080/10934529.2019.1579540
118	Biogas Potential from the Anaerobic Digestion of Potato Peels: Process Performance and Kinetics Evaluation	Achinas, Spyridon; Li, Yu; Achinas, Vasileios; Euverink, Gerrit Jan Willem	2019	ENERGIES	10.3390/en12122311
119	Cadmium Addition Effects on Anaerobic Digestion with Elevated Temperatures	Tian, Yonglan; Li, Shusen; Li, Ying; Zhang, Huayong; Mi, Xueyue; Huang, Hai	2019	ENERGIES	10.3390/en12122367
120	An integrated approach to explore UASB reactors for energy recycling in pulp and paper industry: a case study in Brazil	Ferreira, Samuel Fontenelle; Buller, Luz Selene; Berni, Mauro Donizeti; Bajay, Sergio Valdir; Forster-Carneiro, Tania	2019	BIOFUEL RESEARCH JOURNAL-BRJ	10.18331/BRJ2019.6.3.4
121	Towards Circular Economy: Evaluation of Sewage Sludge Biogas Solutions	Kiselev, Andrey; Magaril, Elena; Magaril, Romen; Panepinto, Deborah; Ravina, Marco; Zanetti, Maria Chiara	2019	RESOURCES-BASEL	10.3390/resources8020091
122	Characeae and Hydrilla verticillata for Enhancing Biogas Production in Landfill Leachate	Sudjarid, Wichidtra; Jarupunphol, Pita	2019	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	
123	Techno-economic analysis of anaerobic digestion implementation in small Italian breweries and evaluation of biochar and	Mainardis, Matia; Flaibani, Simone; Mazzolini, Fabio; Peressotti, Alessandro; Goi, Daniele	2019	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	10.1016/j.jece.2019.10.3184

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	granular activated carbon addition effect on methane yield				
124	Feasibility of wastewater resource recovery using pilot-scale membrane reactor with long-term operation	Odey, Emmanuel A.; Wang, Kaijun; Li, Zifu; Giwa, Abdulmoseen S.; Abo, Bodjui O.	2019	ENERGY & ENVIRONMENT	10.1177/0958305X18802782
125	Waste to watt: Anaerobic digestion of wastewater irrigated biomass for energy and fertiliser production	Shilpi, Sonia; Lamb, Dane; Bolan, Nanthi; Seshadri, Balaji; Choppala, Girish; Naidu, Ravi	2019	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2019.02.122
126	Novel routes for urban bio-waste management: A combined acidic fermentation and anaerobic digestion process for platform chemicals and biogas production	Valentino, Francesco; Moretto, Giulia; Gottardo, Marco; Pavan, Paolo; Bolzonella, David; Majone, Mauro	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.02.102
127	Life Cycle Assessment for the Cuban pig production: Case study in Sancti Spiritus	Alba Reyes, Yasmani; Barrera, Ernesto L.; Sarduy Valle, Anisley; Perez Gil, Maylier; Hermida Garcia, Orestes; Dewulf, Jo	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.02.047
128	Anaerobic co-digestion of chicken and cattle manures: Free ammonia inhibition	Altinbas, Mahmut; Cicek, Osman Ali	2019	ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	10.1080/15567036.2018.1539143
129	Optimization of Biomethane Production in Mono-Cardboard Digestion: Key Parameters Influence, Batch Test Kinetic Evaluation, and DOM Indicators Variation	Li, Dunjie; Song, Liuying; Fang, Hongli; Teng, Yue; Cui, Hongfei; Li, Yu-You; Liu, Rutao; Niu, Qgui	2019	ENERGY & FUELS	10.1021/acs.energyfuels.9b00423
130	A sustainable biorefinery approach for efficient conversion of aquatic weeds into bioethanol and biomethane	Kaur, Manpreet; Kumar, Manoj; Singh, Dheer; Sachdeva, Sarita; Puri, S. K.	2019	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2019.03.018

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131	Life Cycle Assessment of a Biogas-Fed Solid Oxide Fuel Cell (SOFC) Integrated in a Wastewater Treatment Plant	Gandiglio, Marta; De Sario, Fabrizio; Lanzini, Andrea; Bobba, Silvia; Santarelli, Massimo; Blengini, Gian Andrea	2019	ENERGIES	10.3390/en12091611
132	Anaerobic Co-Digestion of Vegetable and Fruit Market Waste in LBR plus CSTR Two-Stage Process for Waste Reduction and Biogas Production	Liu, Wan-Yu; Liao, Bing	2019	APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY	10.1007/s12010-018-2910-4
133	Improvement of biogas production from slaughterhouse wastewater using biosynthesized iron nanoparticles from water treatment sludge	Yazdani, Mohammad; Ebrahimi-Nik, Mohammadali; Heidari, Ava; Abbaspour-Fard, Mohammad Hossein	2019	RENEWABLE ENERGY	10.1016/j.renene.2018.12.019
134	Bioaugmented methanol production using ammonia oxidizing bacteria in a continuous flow process	Su, Yu-Chen; Sathyamoorthy, Sandeep; Chandran, Kartik	2019	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2019.01.092
135	Effect of Benzophenone-3 on performance, structure and microbial metabolism in an EGSB system	Castrillon Cano, Laura; Andrea Londono, Yudy; Pino, Nancy J.; Penuela, Gustavo A.		ENVIRONMENTAL TECHNOLOGY	10.1080/09593330.2019.1606287
136	Study on the comprehensive utilization of city kitchen waste as a resource in China	Wang, Hanxi; Xu, Jianling; Sheng, Lianxi	2019	ENERGY	10.1016/j.energy.2019.02.081
137	Hydrogen and methane bio-production and microbial community dynamics in a multi-phase anaerobic reactor treating saline industrial wastewater	Ali, Manal; Elreedy, Ahmed; Ibrahim, Mona G.; Fujii, Manabu; Tawfik, Ahmed	2019	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2019.02.060
138	Co-digestion of microalgae and primary sludge: Effect on biogas production and microcontaminants removal	Sole-Bundo, Maria; Garfi, Marianna; Matamoros, Victor; Ferrer, Ivett	2019	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2019.01.011

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139	Characterization of the Primary Sludge from Pharmaceutical Industry Effluents and Final Disposition	Alberico Freitas, Renata Xavier; Borges, Lara Aguiar; de Souza, Handray Fernandes; Colen, Fernando; Rodrigues Cangussu, Alex Sander; Sobrinho, Eliane Macedo; Alves Fonseca, Francine Souza; Sousa Santos, Sergio Henrique; Aparecida de Carvalho, Bruna Mara; Brandi, Igor Viana	2019	PROCESSES	10.3390/pr7040231
140	The Effects of Aluminium- and Ferric-Based Chemical Phosphorus Removal on Activated Sludge Digestibility and Dewaterability	Ojo, Peter; Ifelebuegu, Augustine Osamor	2019	PROCESSES	10.3390/pr7040228
141	Analysis of the behavior for operation parameters in the anaerobic digestion process with thermal pretreatment, using fuzzy logic	Flores-Asis, Rita; Mendez-Contreras, Juan M.; Alvarado-Lassman, Alejandro; Fernandez-Lambert, Gregorio; Villanueva-Vasquez, Daniel; Aguilar-Lasserre, Alberto A.	2019	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING	10.1080/10934529.2019.1593010
142	Enhancing methane production using anaerobic co-digestion of waste activated sludge with combined fruit waste and cheese whey	Hallaji, Seyed Mostafa; Kuroshkarim, Mohammad; Moussavi, Seyede Parvin	2019	BMC BIOTECHNOLOGY	10.1186/s12896-019-0513-y
143	Anaerobic Digestion Process for the Production of Biogas from Cassava and Sewage Treatment Plant Sludge in Brazil	Peres, Sergio; Monteiro, Marina Rebeca; Ferreira, Micheline Lima; do Nascimento Junior, Adalberto Freire; Perez Fernandez Palha, Maria de Los Angeles	2019	BIOENERGY RESEARCH	10.1007/s12155-018-9942-z
144	Microalgae cultivation using biogas and digestate carbon sources	Mai-Linh Thi Nguyen; Lin, Chiu-Yue; Lay, Chyi-How	2019	BIOMASS & BIOENERGY	10.1016/j.biombioe.2019.01.050

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145	Anaerobic digestion performance of concentrated municipal sewage by forward osmosis membrane: Focus on the impact of salt and ammonia nitrogen	Gao, Yue; Fang, Zhou; Liang, Peng; Zhang, Xiaoyuan; Qiu, Yong; Kimura, Katsuki; Huang, Xia	2019	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2019.01.016
146	Antibiotic residues may stimulate or suppress methane yield and microbial activity during high-solid anaerobic digestion	Zhi, Suli; Zhang, Keqiang	2019	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2018.11.050
147	Optimization of the co-digestion of sewage sludge, maize straw and cow manure: microbial responses and effect of fractional organic characteristics	Wei, Liangliang; Qin, Kena; Ding, Jing; Xue, Mao; Yang, Chaoyong; Jiang, Junqiu; Zhao, Qingliang	2019	SCIENTIFIC REPORTS	10.1038/s41598-019-38829-8
148	Development and analysis of a novel biomass-based integrated system for multigeneration with hydrogen production	Safari, Farid; Dincer, Ibrahim	2019	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2018.12.101
149	Efficient Nitrogen Removal of Reject Water Generated from Anaerobic Digester Treating Sewage Sludge and Livestock Manure by Combining Anammox and Autotrophic Sulfur Denitrification Processes	Kwon, Kiwook; Kim, Hyosun; Kim, Woojin; Lee, Junbae	2019	WATER	10.3390/w11020204
150	Performance and Microbial Community Dynamics in Anaerobic Digestion of Waste Activated Sludge: Impact of Immigration	Shin, Juhee; Cho, Si-Kyung; Lee, Joonyeob; Hwang, Kwanghyun; Chung, Jae Woo; Jang, Hae-Nam; Shin, Seung Gu	2019	ENERGIES	10.3390/en12030573
151	Effective thermal pretreatment of water hyacinth (<i>Eichhornia crassipes</i>) for the enhancement of biomethanation: VIT (R) gene probe technology for microbial	Ali, Sameh S.; Sun, Jianzhong	2019	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	10.1016/j.jece.2018.10.2853

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	community analysis with special reference to methanogenic Archaea				
152	Feasibility of utilizing by-product biogas in breweries after being decarbonized for refrigeration chiller and related primary energy efficiency analysis	Li Yingjian; Wen Zhen; Li Jiezhi; Cai Lixing; Wang Haitao	2019	SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS	10.1016/j.seta.2019.01.001
153	Anaerobic digestion of lignocellulosic waste: Environmental impact and economic assessment	Van Fan, Yee; Klemes, Jiff Jaromir; Perry, Simon; Lee, Chew Tin	2019	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2018.10.020
154	Treating anaerobic effluents using forward osmosis for combined water purification and biogas production	Schneider, Carina; Rajmohan, Rajath Sathyadev; Zarebska, Agata; Tsapekos, Panagiotis; Helix-Nielsen, Claus	2019	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2018.08.036
155	THE INFLUENCE OF DIGESTATE CONCENTRATION DURING CULTIVATION ON THE QUALITY OF BIOGAS OBTAINED FROM THE ANAEROBIC DIGESTION OF DUCKWEED (<i>Spirodela polyrhiza</i>)	Matosevic, D.; Kralik, D.; Rapcan, I; Jovicic, D.	2019	POLJOPRIVREDA	10.18047/poljo.25.2.10
156	The effects of anionic and non-ionic surfactant on anaerobic co-digestion of sludge, food wastes and green wastes	Sun, Jian; Zhang, Yuchi; Pan, Xiaofang; Zhu, Gefu	2019	ENVIRONMENTAL TECHNOLOGY	10.1080/09593330.2018.1446457
157	Limiting factors for biogas production from cow manure: energo-environmental approach	Jafari-Sejhood, Abuzar; Najafi, Bahman; Ardabili, Sina Faizollahzadeh; Shamshirband, Shahaboddin; Mosavi, Amir; Chau, Kwok-wing	2019	ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS	10.1080/19942060.2019.1654411

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158	Energy valorization of olive waste water, their sludge and treatment by methane production	Mikdame, H.; El Hafid, B.; Mtarfi, N.; Ben Abbou, M.; ElMadani, F. Z.; Rais, Z.	2019	MOROCCAN JOURNAL OF CHEMISTRY	
159	Tertiary treatment of domestic wastewater by <i>Spirulina platensis</i> integrated with microalgal biorefinery	Chavan, Ram; Mutnuri, Srikanth	2019	BIOFUELS-UK	10.1080/17597269.2018.1461509
160	Evaluation of Biogas Production from the Co-Digestion of Municipal Food Waste and Wastewater Sludge at Refugee Camps Using an Automated Methane Potential Test System	Al-Addous, Mohammad; Saidan, Motasem N.; Bdour, Mathhar; Alnaief, Mohammad	2019	ENERGIES	10.3390/en12010032
161	Introducing a novel optimized Dual Fuel Gas Turbine (DFGT) based on a 4E objective function	Rad, Ehsan Amiri; Kazemiani-Najafabadi, Parisa	2019	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2018.09.129
162	Temperature-Phased Biological Hydrolysis and Thermal Hydrolysis Pretreatment for Anaerobic Digestion Performance Enhancement	Mehari, Beraki Bahre; Chang, Sheng; Hong, Youngseck; Chen, Han	2018	WATER	10.3390/w10121812
163	Organic Fraction of Municipal Solid Waste Recovery by Conversion into Added-Value Polyhydroxyalkanoates and Biogas	Valentino, Francesco; Gottardo, Marco; Micolucci, Federico; Pavan, Paolo; Bolzonella, David; Rossetti, Simona; Majone, Mauro	2018	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	10.1021/acssuschemeng.8b03454
164	Life cycle assessment of a bioelectrochemical system as a new technological platform for biosuccinic acid production from waste	Foulet, Amandine; Bouchez, Theodore; Desmond-Le Quemener, Elie; Giard, Lucas; Renvoise, Laure; Aissani, Lynda	2018	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-018-3530-9
165	A comprehensive laboratory assessment of the effects of sewer-dosed iron salts on wastewater treatment processes	Rebosura, Mario, Jr.; Salehin, Sirajus; Pikaar, Ilje; Sun, Xiaoyan; Keller, Jurg; Sharma, Keshab; Yuan, Zhiguo	2018	WATER RESEARCH	10.1016/j.watres.2018.09.021

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166	Energy generation in the treatment of effluent from washing of municipal solid waste collection trucks	de Mello, Vinicius Mattos; de Lima Santos, Damazio Daniel; Sadock Freitas, Rafael Coury; Yokoyama, Lidia; Cammarota, Magali Christe	2018	SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS	10.1016/j.seta.2018.09.009
167	Environmental analysis of Spirulina cultivation and biogas production using experimental and simulation approach	Rodriguez, R.; Espada, J. J.; Moreno, J.; Vicente, G.; Bautista, L. F.; Morales, V.; Sanchez-Bayo, A.; Dufour, J.	2018	RENEWABLE ENERGY	10.1016/j.renene.2017.05.076
168	Anaerobic digestion restricted to phase I for nutrient release and energy production using waste-water grown <i>Chlorella vulgaris</i>	Khalid, Muneeba; Johnson, Evan; Vij, Akshat; Bouwer, Edward J.; Janjua, Hussnain A.; Betenbaugh, Michael J.	2018	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2018.07.084
169	Ambient-temperature co-digestion of low-solids municipal and industrial waste mixtures: Insights from molecular analyses	Yazdani, Ramin; Shim, Kyuhwan; Chen, Zhi; Cheung, Christy; Summers, Matthew D.; Williams, Douglas W.; Seiser, Reinhard; De Long, Susan K.	2018	JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION	10.1080/10962247.2018.1479667
170	Life cycle assessment indicators of urban wastewater and sewage sludge treatment	Buonocore, Elvira; Mellino, Salvatore; De Angelis, Giuseppe; Liu, Gengyuan; Ulgiati, Sergio	2018	ECOLOGICAL INDICATORS	10.1016/j.ecolind.2016.04.047
171	Remediation of sedimented fiber originating from pulp and paper industry: Laboratory scale anaerobic reactor studies and ideas of scaling up	Chatterjee, Pritha; Lahtinen, Leija; Kokko, Marika; Rintala, Jukka	2018	WATER RESEARCH	10.1016/j.watres.2018.06.054
172	Co-digestion of sewage sludge and microalgae - Biogas production investigations	Thorin, Eva; Olsson, Jesper; Schwede, Sebastian; Nehrenheim, Emma	2018	APPLIED ENERGY	10.1016/j.apenergy.2017.08.085

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173	Olive Mill Industrial Waste as Co-substrate in Anaerobic Digestion with Aim at its Energetic Exploitation	Benito-Mora, Carlos; Alonso-Contreras, Antonio J.; Garvi, Dolores; Pozo-Morales, Laura; Moron, Maria C.; Lebrato, Julian	2018	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH	10.1007/s41742-018-0123-x
174	Water and energy recovery: The future of wastewater in China	Smith, Kate; Liu, Shuming; Hu, Hong-Ying; Dong, Xin; Wen, Xianghua	2018	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2018.05.124
175	Effect of Nutrient Removal and Resource Recovery on Life Cycle Cost and Environmental Impacts of a Small Scale Water Resource Recovery Facility	Morelli, Ben; Cashman, Sarah; Ma, Xin (Cissy); Garland, Jay; Turgeon, Jason; Fillmore, Lauren; Bless, Diana; Nye, Michael	2018	SUSTAINABILITY	10.3390/su10103546
176	Anaerobic digestion and integration at urban scale: feedback and comparative case study	Angeli, J. R. Bautista; Morales, A.; LeFloc'h, T.; Lakel, A.; Andres, Y.	2018	ENERGY SUSTAINABILITY AND SOCIETY	10.1186/s13705-018-0170-3
177	A comparative life cycle assessment on four waste-to-energy scenarios for food waste generated in eateries	Tong, Huanhuan; Shen, Ye; Zhang, Jingxin; Wang, Chi-Hwa; Ge, Tian Shu; Tong, Yen Wah	2018	APPLIED ENERGY	10.1016/j.apenergy.2018.05.062
178	Potential Recovery Assessment of the Embodied Resources in Qatar's Wastewater	Alsheyab, Mohammad A. T.; Kusch-Brandt, Sigrid	2018	SUSTAINABILITY	10.3390/su10093055
179	Strategies to Optimize Microalgae Conversion to Biogas: Co-Digestion, Pretreatment and Hydraulic Retention Time	Sole-Bundo, Maria; Salvado, Humbert; Passos, Fabiana; Garfi, Marianna; Ferrer, Ivet	2018	MOLECULES	10.3390/molecules23092096
180	Biogas liquid digestate grown <i>Chlorella</i> sp for biocrude oil production via hydrothermal liquefaction	Li, Hugang; Wang, Meng; Wang, Xinfeng; Zhang, Yuanhui; Lu, Haifeng; Duan, Na; Li, Baoming; Zhang, Dongming; Dong, Taili; Liu, Zhidan	2018	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2018.03.354

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181	Improvement of anaerobic digestion of sewage mixed sludge using free nitrous acid and Fenton pre-treatment	Hallaji, Seyed Mostafa; Torabian, Ali; Aminzadeh, Behnoush; Zahedi, Soraya; Eshtiaghi, Nicky	2018	BIOTECHNOLOGY FOR BIOFUELS	10.1186/s13068-018-1235-4
182	Co-digestion of sewage sludge with crude or pretreated glycerol to increase biogas production	Ferreira, Janaina dos Santos; Volschan, Isaac, Jr.; Cammarota, Magali Christe	2018	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-018-2260-3
183	Characterization of dissolved organic matter from biogas residue composting using spectroscopic techniques	Guo, Xujing; Li, Chongwei; Zhu, Qili; Huang, Tao; Cai, Yu; Li, Nanxi; Liu, Jianying; Tan, Xiandong	2018	WASTE MANAGEMENT	10.1016/j.wasman.2018.06.001
184	Effect of Bioaugmentation on Biogas Yields and Kinetics in Anaerobic Digestion of Sewage Sludge	Lebiocka, Magdalena; Montusiewicz, Agnieszka; Cydzik-Kwiatkowska, Agnieszka	2018	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	10.3390/ijerph15081717
185	POTENTIAL OF ENERGY PRODUCTION FROM SLAUGHTERHOUSE WASTEWATER	Carlos Hernandez, Salvador; Diaz Jimenez, Lourdes; Bueno Garcia, Jose Andres	2018	INTERCIENCIA	
186	Environmental assessment of alternative treatment schemes for energy and nutrient recovery from livestock manure	Pedizzi, C.; Noya, I.; Sarli, J.; Gonzalez-Garcia, S.; Lema, J. M.; Moreira, M. T.; Carballa, M.	2018	WASTE MANAGEMENT	10.1016/j.wasman.2018.04.007
187	Start-up of a microalgae-based treatment system within the biorefinery concept: from wastewater to bioproducts	Uggetti, Enrica; Garcia, Joan; Antonio Alvarez, Juan; Jesus Garcia-Galan, Maria	2018	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2018.195
188	Pilot-Scale Anaerobic Co-Digestion of the OFMSW: Improving Biogas Production and Startup	Stan, Constantin; Collaguazo, Gerardo; Streche, Constantin; Apostol, Tiberiu; Cocarta, Diana Mariana	2018	SUSTAINABILITY	10.3390/su10061939
189	Biogas generation from distillery spent wash by using an OPUR western biotechnology process: a case study	Wagh, Manoj Pandurang; Nemade, Pravin Dinkar	2018	DESALINATION AND WATER TREATMENT	10.5004/dwt.2018.22404

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190	Mesophilic anaerobic co-digestion of the organic fraction of municipal solid waste with the liquid fraction from hydrothermal carbonization of sewage sludge	De la Rubia, M. A.; Villamil, J. A.; Rodriguez, J. J.; Borja, R.; Mohedano, A. F.	2018	WASTE MANAGEMENT	10.1016/j.wasman.2018.02.046
191	The influence of the total solid content on the stability of dry-thermophilic anaerobic digestion of rice straw and pig manure	Riya, Shohei; Suzuki, Kazuhiro; Meng, Lingyu; Zhou, Sheng; Terada, Akihiko; Hosomi, Masaaki	2018	WASTE MANAGEMENT	10.1016/j.wasman.2018.02.033
192	PERFORMANCE AND KINETIC STUDY OF THE ANAEROBIC CO-DIGESTION OF COCOA HUSK AND DIGESTED COW MANURE WITH HIGH ORGANIC LOADING RATE	Darwin; Ilham, Muhammad; Fazil, Afrizal	2018	INMATEH-AGRICULTURAL ENGINEERING	
193	A comparative study of thermophilic and mesophilic anaerobic co-digestion of food waste and wheat straw: Process stability and microbial community structure shifts	Shi, Xuchuan; Guo, Xianglin; Zuo, Jiane; Wang, Yajiao; Zhang, Mengyu	2018	WASTE MANAGEMENT	10.1016/j.wasman.2018.02.004
194	Evaluation of thermal pretreatment and digestion temperature rise in a biogas fueled combined cooling, heat, and power system using exergo-economic analysis	Mirmasoumi, Siamak; Saray, Rahim Khoshbakhti; Ebrahimi, Sirous	2018	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2018.02.069
195	Anaerobic digestion of waste activated sludge with incineration bottom ash: Enhanced methane production and CO ₂ sequestration	Yin, Changkai; Shen, Yanwen; Zhu, Nanwen; Huang, Qiuji; Lou, Ziyang; Yuan, Haiping	2018	APPLIED ENERGY	10.1016/j.apenergy.2018.02.056
196	A process combining hydrothermal pretreatment, anaerobic digestion and pyrolysis for sewage sludge dewatering	Li, Chunxing; Wang, Xingdong; Zhang, Guangyi; Li, Jie; Li, Zhiwei; Yu, Guangwei; Wang, Yin	2018	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2018.01.045

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197	Post-anaerobic digestion thermal hydrolysis of sewage sludge and food waste: Effect on methane yields, dewaterability and solids reduction	Svensson, Kine; Kjorlaug, Oda; Higgins, Matthew J.; Linjordet, Roar; Horn, Svein J.	2018	WATER RESEARCH	10.1016/j.watres.2018.01.008
198	Assessment of Collective Production of Biomethane from Livestock Waste for Urban Transportation Mobility in Brazil and the United States	Pasqual, Janaina Camile; Bollmann, Harry Alberto; Scott, Christopher A.; Edwiges, Thiago; Baptista, Thais Carlini	2018	ENERGIES	10.3390/en11040997
199	Food waste co-digestion with slaughterhouse waste and sewage sludge: Digestate conditioning and supernatant quality	Borowski, Sebastian; Boniecki, Pawel; Kubacki, Przemyslaw; Czyzowska, Agata	2018	WASTE MANAGEMENT	10.1016/j.wasman.2017.12.010
200	Biomethanation potential for co-digestion of municipal solid waste and rice straw: A batch study	Negi, Suraj; Dhar, Hiya; Hussain, Athar; Kumar, Sunil	2018	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2018.01.070
201	Thermophilic Alkaline Fermentation Followed by Mesophilic Anaerobic Digestion for Efficient Hydrogen and Methane Production from Waste-Activated Sludge: Dynamics of Bacterial Pathogens as Revealed by the Combination of Metagenomic and Quantitative PCR Analyses	Wan, Jingjing; Jing, Yuhang; Rao, Yue; Zhang, Shicheng; Luo, Gang	2018	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	10.1128/AEM.02632-17
202	Improved anaerobic digestion performance of Miscanthus floridulus by different pretreatment methods and preliminary economic analysis	Fu, Shan-Fei; Chen, Kai-Qiang; Zhu, Rong; Sun, Wen-Xin; Zou, Hua; Guo, Rong-Bo	2018	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2018.01.014

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203	Optimal integrated facility for waste processing	Martin-Hernandez, Edgar; Sampat, Apoorva M.; Zavala, Victor M.; Martin, Mariano	2018	CHEMICAL ENGINEERING RESEARCH & DESIGN	10.1016/j.cherd.2017.11.042
204	Anaerobic digestion of mixed silage of waterweed biomass and wheat straw in a long-term semi-continuous biogas production process	Bauer, Aline; Moeller, Lucie; Wedwitschka, Harald; Stinner, Walter; Zehndorf, Andreas	2018	ENERGY SUSTAINABILITY AND SOCIETY	10.1186/s13705-017-0145-9
205	Maize cob waste pre-treatments to enhance biogas production through co-anaerobic digestion with OFMSW	Surra, Elena; Bernardo, Maria; Lapa, Nuno; Esteves, Isabel; Fonseca, Isabel; Mota, Jose Paulo	2018	WASTE MANAGEMENT	10.1016/j.wasman.2017.11.004
206	A comparison of process performance during the anaerobic mono- and co-digestion of slaughterhouse waste through different operational modes	Pages-Diaz, Jhosane; Pereda-Reyes, Ileana; Luis Sanz, Jose; Lundin, Magnus; Taherzadeh, Mohammad J.; Horvath, Ilona Sarvari	2018	JOURNAL OF ENVIRONMENTAL SCIENCES	10.1016/j.jes.2017.06.004
207	Determination of methane potential of mixtures composed of sewage sludge, organic fraction of municipal waste and grease trap sludge using biochemical methane potential assays. A comparison of BMP tests and semi-continuous trial results	Grosser, Anna	2018	ENERGY	10.1016/j.energy.2017.11.010
208	Comparative Assessment of Sludge Pre-Treatment Techniques to Enhance Sludge Dewaterability and Biogas Production	Tas, Didem Okutman; Yangin-Gomec, Cigdem; Olmez-Hanci, Tugba; Arikan, Osman A.; Cifci, Deniz I.; Gencsoy, Elif B.; Ekdal, Alpaslan; Ubay-Cokgor, Emine	2018	CLEAN-SOIL AIR WATER	10.1002/clen.201700569
209	Effect of inoculum on the anaerobic digestion of food waste accounting for the concentration of trace elements	Alexis Parra-Orobio, Brayan; Donoso-Bravo, Andres; Camilo Ruiz-Sanchez, Juan; Jimena Valencia-Molina, Karen; Torres-Lozada, Patricia	2018	WASTE MANAGEMENT	10.1016/j.wasman.2017.09.040

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210	Co-digestion performance of organic fraction of municipal solid waste with leachate: Preliminary studies	Guyen, Huseyin; Akca, Mehmet Sadik; Iren, Erol; Keles, Fatih; Ozturk, Izzet; Altinbas, Mahmut	2018	WASTE MANAGEMENT	10.1016/j.wasman.2017.04.039
211	Biochemical Neutralization of Coke Excess Sewage Sludge During Anaerobic Digestion Process	Macherzynski, B.; Wlodarczyk-Makula, M.	2018	CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY	10.15255/CABEQ.2016.1041
212	Modeling of real scale waste activated sludge anaerobic digestion process by Anaerobic Digestion Model 1 (ADM1)	Otuzalti, Murat Mert; Perendeci, Nuriye Altinay	2018	INTERNATIONAL JOURNAL OF GREEN ENERGY	10.1080/15435075.2018.1479265
213	Methanogenesis of organic wastes and their blend in batch anaerobic digester: Experimental and kinetic study	Rathaur, Ranjana; Dhawane, Sumit H.; Ganguly, Amit; Mandal, Mrinal Kanti; Halder, Gopinath	2018	PROCESS SAFETY AND ENVIRONMENTAL PROTECTION	10.1016/j.psep.2017.11.014
214	Boosting biogas production from sewage sludge by adding small amount of agro-industrial by-products and food waste residues	Maragkaki, A. E.; Fountoulakis, M.; Kyriakou, A.; Lasaridi, K.; Manios, T.	2018	WASTE MANAGEMENT	10.1016/j.wasman.2017.04.024
215	A case study for a cost-benefit-based, stepwise optimization of thermo-chemical WAS pre-treatment for anaerobic digestion	Nagler, Magdalena; Aichinger, Peter; Kuprian, Martin; Puempel, Thomas; Insam, Heribert; Ebner, Christian	2018	JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT	10.1007/s10163-016-0577-x
216	The broad spectrum of possibilities for spent coffee grounds valorisation	Giroto, Francesca; Pivato, Alberto; Cossu, Raffaello; Nkeng, George Elambo; Lavagnolo, Maria Cristina	2018	JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT	10.1007/s10163-017-0621-5
217	Evaluation of relationship between biogas production and microbial communities in anaerobic co-digestion	Li, Dan; Kim, Minsoo; Kim, Hyunjin; Choi, Okkyoung; Sang, Byoung-In; Chiang, Pen Chi; Kim, Hyunook	2018	KOREAN JOURNAL OF CHEMICAL ENGINEERING	10.1007/s11814-017-0246-3

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218	Klebsiella pneumoniae sp LZU10 degrades oil in food waste and enhances methane production from co-digestion of food waste and straw	Liu, Pu; Ji, Jing; Wu, Qi; Ren, Jun; Wu, Gaofeng; Yu, Zhengsheng; Xiong, Jian; Tian, Fake; Zafar, Yusuf; Li, Xiangkai	2018	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	10.1016/j.ibiod.2017.09.019
219	Evaluation and comparison of product yields and bio-methane potential in sewage digestate following hydrothermal treatment	Aragon-Briceno, C.; Ross, A. B.; Camargo-Valero, M. A.	2017	APPLIED ENERGY	10.1016/j.apenergy.2017.09.019
220	Enhanced anaerobic digestion of food waste by adding activated carbon: Fate of bacterial pathogens and antibiotic resistance genes	Zhang, Jingxin; Zhang, Le; Loh, Kai-Chee; Dai, Yanjun; Tong, Yen Wah	2017	BIOCHEMICAL ENGINEERING JOURNAL	10.1016/j.bej.2017.09.004
221	Low intensity surplus activated sludge pretreatment before anaerobic digestion	Suschka, Jan; Grubel, Klaudiusz	2017	ARCHIVES OF ENVIRONMENTAL PROTECTION	10.1515/aep-2017-0038
222	The effect of different mesophilic temperatures during anaerobic digestion of sludge on the overall performance of a WWTP in Sweden	Moestedt, J.; Ronnberg, J.; Nordell, E.	2017	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2017.367
223	Cultivation of native algal consortium in semi-continuous pilot scale raceway pond for greywater treatment coupled with potential methane production	Kumar, Pushpendar; Prajapati, Sanjeev Kumar; Malik, Anushree; Vijay, Virendra Kumar	2017	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	10.1016/j.jece.2017.10.044
224	Comparison of pre-treatments to reduce salinity and enhance biomethane yields of Laminaria digitata harvested in different seasons	Tabassum, Muhammad Rizwan; Xia, Ao; Murphy, Jerry D.	2017	ENERGY	10.1016/j.energy.2017.08.070
225	Effect of nanoscale zero-valent iron on sludge anaerobic digestion	Jia, Tongtong; Wang, Zaizhao; Shan, Haiqiang; Liu, Yuanfeng; Gong, Lei	2017	RESOURCES CONSERVATION AND RECYCLING	10.1016/j.resconrec.2017.09.007

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226	Performance and stability of sewage sludge digestion under CO ₂ enrichment: A pilot study	Alibardi, Luca; Green, Kevin; Favaro, Lorenzo; Vale, Peter; Soares, Ana; Cartmell, Elise; Fernandez, Yadira Bajon	2017	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2017.08.071
227	Waste treatment and energy production from small-scale wastewater digesters	Lansing, Stephanie; Maile-Moskowitz, Ayella; Eaton, Alexander	2017	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2017.08.215
228	The influence of decreased hydraulic retention time on the performance and stability of co-digestion of sewage sludge with grease trap sludge and organic fraction of municipal waste	Grosser, Anna	2017	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2017.04.085
229	Modeling and optimization of biogas production from cow manure and maize straw using an adaptive neuro-fuzzy inference system	Zareei, Samira; Khodaei, Jalal	2017	RENEWABLE ENERGY	10.1016/j.renene.2017.07.050
230	Effect of ultrasonic pre-treatment on biogas yield and specific energy in anaerobic digestion of fruit and vegetable wholesale market wastes	Zeynali, Reyhaneh; Khojastehpour, Mehdi; Ebrahimi-Nik, Mohammadali	2017	SUSTAINABLE ENVIRONMENT RESEARCH	10.1016/j.serj.2017.07.001
231	Evaluation by Kinetic Models of Anaerobe Digestion Performances for Various Substrates and Co-substrates	Cioabla, Adrian Eugen; Dumitrel, Gabriela Alina; Ionel, Ioana	2017	REVISTA DE CHIMIE	
232	Elucidating microbial community adaptation to anaerobic co-digestion of fats, oils, and grease and food waste	Amha, Yamrot M.; Sinha, Pooja; Lagman, Jewls; Gregori, Matt; Smith, Adam L.	2017	WATER RESEARCH	10.1016/j.watres.2017.06.065
233	Fertilizer effect of UASB (55 degrees C) effluent with limestone as fixed bed treating vinasse on development of <i>Brachiaria brizantha</i> cv. Xaraes	Magalhaes Filho, F. J. C.; Gregio, L. G. F.; de Azevedo, J. B.; de Paiva, A. S.; Guilherme, D. de O.; Cereda, P.	2017	DESALINATION AND WATER TREATMENT	10.5004/dwt.2017.20850

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234	Simultaneous addition of zero-valent iron and activated carbon on enhanced mesophilic anaerobic digestion of waste-activated sludge	Wang, Tongyu; Qin, Yujie; Cao, Yan; Han, Bin; Ren, Junyi	2017	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10.1007/s11356-017-9859-7
235	Effects of of thermal pre-treatment and recuperative thickening on the fate of trace organic contaminants during anaerobic digestion of sewage sludge	Yang, Shufan; McDonald, James; Hai, Faisal I.; Price, William E.; Khan, Stuart J.; Nghiem, Long D.	2017	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	10.1016/j.ibiod.2017.06.002
236	Pre treatment of Duckweed Biomass, Obtained from Wastewater Treatment Ponds, for Biogas Production	Tonon, Gustavo; Magnus, Bruna Scandolara; Mohedano, Rodrigo A.; Leite, Wanderli R. M.; da Costa, Rejane H. R.; Belli Filho, Paulo	2017	WASTE AND BIOMASS VALORIZATION	10.1007/s12649-016-9800-1
237	Pathways in bacterial and archaeal communities dictated by ammonium stress in a high solid anaerobic digester with dewatered sludge	Li, Ning; He, Jin; Yan, Han; Chen, Sisi; Dai, Xiaohu	2017	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2017.05.094
238	Effects of ultrasonic pretreatment on the solubilization and kinetic study of biogas production from anaerobic digestion of waste activated sludge	Lizama, Alfredo Cordova; Figueiras, Cristian Carrera; Herrera, Rafael Rojas; Pedreguera, Alejandro Zepeda; Ruiz Espinoza, Juan Enrique	2017	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	10.1016/j.ibiod.2017.05.020
239	A pilot scale study on synergistic effects of co-digestion of pig manure and grass silage	Xie, Sihuang; Lawlor, Peadar G.; Frost, Peter; Dennehy, Conor D.; Hu, Zhenhu; Zhan, Xinmin	2017	INTERNATIONAL BIODETERIORATION & BIODEGRADATION	10.1016/j.ibiod.2017.07.005
240	Effect of Chemical Coagulation Pretreatment on Anaerobic Digestion of Tannery Wastewater	Achouri, O.; Panico, A.; Bencheikh-Lehocine, M.; Derbal, K.; Pirozzi, F.	2017	JOURNAL OF ENVIRONMENTAL ENGINEERING	10.1061/(ASCE)EE.1943-7870.0001235
241	Synergistic effect of co-digestion to enhance anaerobic degradation of	Anjum, Muzammil; Khalid, Azeem; Qadeer, Samia; Miandad, Rashid	2017	WASTE MANAGEMENT & RESEARCH	10.1177/0734242X17715904

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242	Effective biodegradation of organic matter and biogas reuse in a novel integrated modular anaerobic system for rural wastewater treatment: A pilot case study	Pang, Haoran; Wu, Ping; Li, Lingfang; Yu, Zhenjiang; Zhang, Zhenjia	2017	CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION	10.1016/j.cep.2017.04.006
243	In-situ injection of potassium hydroxide into briquetted wheat straw and meadow grass - Effect on biomethane production	Feng, Lu; Moset, Veronica; Li, Wanwu; Chen, Chang; Moller, Henrik Bjarne	2017	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2017.05.032
244	Effects of stirring on cassava effluent treatment in an anaerobic horizontal tubular pilot reactor with support medium - A Review	Kuczman, Osvaldo; Ferreira Tavares, Maria Herminia; Gomes, Simone Damasceno; Carvalho Guedes, Luciana Pagliosa; Grisotti, Geovane	2017	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	10.1016/j.rser.2016.11.238
245	Biomethanation of Sewage Sludge with Food Waste Leachate Via Co-Digestion	Shin, Jingyeong; Kim, Young Beom; Jeon, Jong Hun; Choi, Sangki; Park, In Kyu; Kim, Young Mo	2017	JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY	10.4014/jmb.1705.05048
246	Evaluation of different types of anaerobic seed sludge for the high rate anaerobic digestion of pig slurry in UASB reactors	Rico, Carlos; Montes, Jesus A.; Luis Rico, Jose	2017	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2017.04.014
247	A new approach for concurrently improving performance of South Korean food waste valorization and renewable energy recovery via dry anaerobic digestion under mesophilic and thermophilic conditions	Dinh Duc Nguyen; Yeop, Jeong Seong; Choi, Jaehoon; Kim, Sungsu; Chang, Soon Woong; Jeon, Byong-Hun; Guo, Wenshan; Ngo, Huu Hao	2017	WASTE MANAGEMENT	10.1016/j.wasman.2017.03.049
248	Anaerobic digestion of amine-oxide-based surfactants: biodegradation kinetics and inhibitory effects	Rios, Francisco; Lechuga, Manuela; Fernandez-Arteaga, Alejandro; Jurado,	2017	BIODEGRADATION	10.1007/s10532-017-9797-6

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249	Determination and evaluation of biogas and methane productions of vegetable and fruit wastes with Hohenheim Batch Test method	Aybek, Ali; Ucok, Serdar	2017	INTERNATIONAL JOURNAL OF AGRICULTURAL AND BIOLOGICAL ENGINEERING	10.25165/j.ijabe.20171004.2864
250	HOMER analysis of the water and renewable energy nexus for water-stressed urban areas in Sub-Saharan Africa	Brandoni, Caterina; Bosnjakovic, Branko	2017	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2016.07.114
251	Recovery of energy and plant nutrients from a pharmaceutical organic waste derived from a fermentative biomass: Integration of anaerobic digestion and composting	Cucina, Mirko; Zadra, Claudia; Marcotullio, Maria Carla; Di Maria, Francesco; Sordi, Simone; Curini, Massimo; Gigliotti, Giovanni	2017	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	10.1016/j.jece.2017.06.003
252	Resource efficient wastewater treatment in a developing area-Climate change impacts and economic feasibility	Laitinen, Jyrki; Moliis, Katja; Surakka, Martti	2017	ECOLOGICAL ENGINEERING	10.1016/j.ecoleng.2017.04.017
253	Hybrid environmental and economic assessment of four approaches recovering energy from sludge with variant organic contents	Li, Huan; Jin, Chang; Mundree, Sagadevan	2017	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2017.03.167
254	The study of the variability of biomass from plants of the Elodea genus from a river in Germany over a period of two hydrological years for investigating their suitability for biogas production	Zehnsdorf, Andreas; Moeller, Lucie; Staerk, Hans-Joachim; Auge, Harald; Roehl, Markus; Stinner, Walter	2017	ENERGY SUSTAINABILITY AND SOCIETY	10.1186/s13705-017-0117-0

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255	Energy upcycle in anaerobic treatment: Ammonium, methane, and carbon dioxide reformation through a hybrid electrodeionization-solid oxide fuel cell system	Xu, Linji; Dong, Feifei; Zhuang, Huichuan; He, Wei; Ni, Meng; Feng, Shien-Ping; Lee, Po-Heng	2017	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2017.02.072
256	Metal fractionation in sludge from sewage UASB treatment	Braga, A. F. M.; Zaiat, M.; Silva, G. H. R.; Feroso, F. G.	2017	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2017.01.070
257	Assessing the agricultural reuse of the digestate from microalgae anaerobic digestion and co-digestion with sewage sludge	Sole-Bundo, Maria; Cucina, Mirko; Folch, Montserrat; Tapias, Josefina; Gigliotti, Giovanni; Garfi, Marianna; Ferrer, Iveta	2017	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2017.02.006
258	Anaerobic co-digestion of recalcitrant agricultural wastes: Characterizing of biochemical parameters of digestate and its impacts on soil ecosystem	Muscolo, Adele; Settineri, Giovanna; Papalia, Teresa; Attina, Emilio; Basile, Carmelo; Panuccio, Maria Rosaria	2017	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2017.02.051
259	Assessment of two faecal sludge treatment plants in urban areas: Case study in Beijing	Cheng Shikun; Zheng Lei; Zhao Mingyue; Bai Xue; Li Zifu; Mang, Heinz-Peter	2017	INTERNATIONAL JOURNAL OF AGRICULTURAL AND BIOLOGICAL ENGINEERING	10.3965/j.ijabe.20171003.3067
260	Assessment of biogas production in Argentina from co-digestion of sludge and municipal solid waste	Morero, Betzabet; Vicentin, Rocio; Campanella, Enrique A.	2017	WASTE MANAGEMENT	
261	In quest of environmental hotspots of sewage sludge treatment combining anaerobic digestion and mechanical dewatering: A life cycle assessment approach	Gourdet, Claire; Girault, Romain; Berthault, Sarah; Richard, Marion; Tosoni, Julian; Pradel, Marilys	2017	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2016.12.007

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262	Comparative life cycle assessment of biowaste to resource management systems - A Danish case study	Thomsen, M.; Seghetta, M.; Mikkelsen, M. H.; Gyldenkaerne, S.; Becker, T.; Caro, D.; Frederiksen, P.	2017	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2016.10.034
263	Treatment of actual slaughterhouse wastewater by combined anaerobic-aerobic processes for biogas generation and removal of organics and nutrients: An optimization study towards a cleaner production in the meat processing industry	Bustillo-Lecompte, Ciro Fernando; Mehrvar, Mehrab	2017	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2016.09.060
264	Effect of energy grass on methane production and heavy metal fractionation during anaerobic digestion of sewage sludge	Zhang, Min; Yang, Changming; Jing, Yachao; Li, Jianhua	2016	WASTE MANAGEMENT	10.1016/j.wasman.2016.09.040
265	From municipal/industrial wastewater sludge and FOG to fertilizer: A proposal for economic sustainable sludge management	Bratina, Bozidar; Sorgo, Andrej; Kramberger, Janez; Ajdnik, Urban; Zemljic, Lidija Fras; Ekart, Janez; Safaric, Riko	2016	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2016.09.063
266	Techno-environmental assessment of integrating polyhydroxyalkanoate (PHA) production with services of municipal wastewater treatment	Morgan-Sagastume, Fernando; Heimersson, Sara; Laera, Giuseppe; Werker, Alan; Svanstrom, Magdalena	2016	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2016.08.008
267	Towards a sustainable paradigm of waste-to-energy process: Enhanced anaerobic digestion of sludge with woody biochar	Shen, Yanwen; Linville, Jessica L.; Ignacio-de Leon, Patricia Anne A.; Schoene, Robin P.; Urgun-Demirtas, Meltem	2016	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2016.06.144
268	Diplosphaera sp MM1-A microalga with phycoremediation and biomethane potential	Liu, Cuixia; Subashchandrabose, Suresh R.; Megharaj, Mallavarapu; Hu, Zhiqun; Xiao, Bo	2016	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2016.07.077

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269	Enhancement of biogas and methanization of citrus waste via biodegradation pretreatment and subsequent optimized fermentation	Su, Haifeng; Tan, Furong; Xu, Yuanjian	2016	FUEL	10.1016/j.fuel.2016.05.055
270	Archaeal and bacterial community dynamics and bioprocess performance of a bench-scale two-stage anaerobic digester	Gonzalez-Martinez, Alejandro; Jesus Garcia-Ruiz, Maria; Rodriguez-Sanchez, Alejandro; Osorio, Francisco; Gonzalez-Lopez, Jesus	2016	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	10.1007/s00253-016-7393-z
271	Greenhouse emission pinch analysis (GEPA) for evaluation of emission reduction strategies	Kim, Minhyun; Kim, MinJeong; Pyo, SeHee; Lee, SeungChul; Ghorbannezhad, Payam; Foo, Dominic Chwan Yee; Yoo, ChangKyoo	2016	Clean Technologies and Environmental Policy	10.1007/s10098-015-1063-1
272	Microwave and ultrasound pre-treatments influence microbial community structure and digester performance in anaerobic digestion of waste activated sludge	Westerholm, Maria; Crauwels, Sam; Van Geel, Maarten; Dewil, Raf; Lievens, Bart; Appels, Lise	2016	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	10.1007/s00253-016-7321-2
273	Energetic and environmental sustainability of the co-digestion of sludge with bio-waste in a life cycle perspective	Di Maria, Francesco; Micale, Caterina; Contini, Stefano	2016	APPLIED ENERGY	10.1016/j.apenergy.2016.03.036
274	Effect of VS organic loads and buckwheat husk on methane production by anaerobic co-digestion of primary sludge and wheat straw	Elsayed, Mahmoud; Andres, Yaves; Blel, Walid; Gad, Ali; Ahmed, Abdelkader	2016	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2016.03.064
275	Towards a comprehensive greenhouse gas emissions inventory for biosolids	Alvarez-Gaitan, J. P.; Short, Michael D.; Lundie, Sven; Stuetz, Richard	2016	WATER RESEARCH	10.1016/j.watres.2016.03.059

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276	Lab-scale demonstration of recuperative thickening technology for enhanced biogas production and dewaterability in anaerobic digestion processes	Cobbledick, Jeffrey; Aubry, Nicholas; Zhang, Victor; Rollings-Scattergood, Sasha; Latulippe, David R.	2016	WATER RESEARCH	10.1016/j.watres.2016.02.051
277	Toward a functional integration of anaerobic digestion and pyrolysis for a sustainable resource management. Comparison between solid-digestate and its derived pyrochar as soil amendment	Monlau, F.; Francavilla, M.; Sambusiti, C.; Antoniou, N.; Solhy, A.; Libutti, A.; Zabaniotou, A.; Barakat, A.; Monteleone, M.	2016	APPLIED ENERGY	10.1016/j.apenergy.2016.02.084
278	Evaluation of treatment potential, biogas generation and sludge properties of an anaerobic claridigester	Gani, Khalid Muzamil; Ali, Muntjeer; Singh, Shri Om; Kazmi, A. A.	2016	JOURNAL OF WATER SANITATION AND HYGIENE FOR DEVELOPMENT	10.2166/washdev.2016.038
279	High-rate thermophilic bio-methanation of the fine sieved fraction from Dutch municipal raw sewage: Cost-effective potentials for on-site energy recovery	Ghasimi, Dara S. M.; de Kreuk, Merle; Maeng, Sung Kyu; Zandvoort, Marcel H.; van Lier, Jules B.	2016	APPLIED ENERGY	10.1016/j.apenergy.2015.12.065
280	Intelligent energy exploitation from sewage	Ngoc-Hung Truong; Krost, Gerhard	2016	IET RENEWABLE POWER GENERATION	10.1049/iet-rpg.2015.0154
281	An optimized water reuse and waste valorization method for a sustainable development of poultry slaughtering plants	Morales-Polo, Carlos; del Mar Cledera-Castro, Maria	2016	DESALINATION AND WATER TREATMENT	10.1080/19443994.2015.1033652
282	Multi-stage EGSB/MBR treatment of soft drink industry wastewater	Sheldon, Marshall Sheerene; Erdogan, Innocentia Gugulethu	2016	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2015.10.021
283	Brewery wastewater treatment using an anaerobic membrane bioreactor	Chen, Han; Chang, Sheng; Guo, Qingbin; Hong, Youngseck; Wu, Ping	2016	BIOCHEMICAL ENGINEERING JOURNAL	10.1016/j.bej.2015.10.006

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284	Linking climate change mitigation and coastal eutrophication management through biogas technology: Evidence from a new Danish bioenergy concept	Kaspersen, Bjarke Stoltze; Christensen, Thomas Budde; Fredenslund, Anders Michael; Moller, Henrik Bjarne; Butts, Michael Brian; Jensen, Niels H.; Kjaer, Tyge	2016	SCIENCE OF THE TOTAL ENVIRONMENT	10.1016/j.scitotenv.2015.10.015
285	The efficacy of an anaerobic digester-based power production from various feedstocks	Thomas, Paul; Soren, Nirmala; Rumjit, Nelson Pynadathu; James, Jake George	2016	ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	10.1080/15567036.2016.1217288
286	Biogas production from municipal sewage sludge (MSS)	Demirbas, Ayhan; Taylan, Osman; Kaya, Durmus	2016	ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	10.1080/15567036.2016.1124944
287	Co-digestion of sewage sludge and organic fraction of municipal solid waste in the aspect of heavy metals content	Lebiocka, Magdalena; Montusiewicz, Agnieszka; Depta, Marcin	2016	ROCZNIK OCHRONA SRODOWISKA	
288	BIOGAS PRODUCTION FROM SYNTHETIC SAGO WASTEWATER BY ANAEROBIC DIGESTION: OPTIMIZATION AND TREATMENT	Sangeetha, V.; Sivakumar, V.	2016	CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY	10.2298/CICEQ140612016S
289	Effect of particle size and doses of olivine addition on carbon dioxide sequestration during anaerobic digestion of sewage sludge at ambient and mesophilic temperatures	Linville, Jessica L.; Shen, Yanwen; Urgan-Demirtas, Meltem; Snyder, Seth W.	2016	PROCESS BIOCHEMISTRY	10.1016/j.procbio.2015.10.015
290	Determination of greenhouse gas emission reductions from sewage sludge anaerobic digestion in China	Liu, H. -T.; Kong, X. -J.; Zheng, G. -D.; Chen, C. -C.	2016	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2015.472
291	Co-digestion of municipal sludge and external organic wastes for enhanced	Tandukar, Madan; Paviostathis, Spyros G.	2015	WATER RESEARCH	10.1016/j.watres.2015.04.031

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292	A comparison of wet and dry anaerobic digestion processes for the treatment of municipal solid waste and food waste	Angelonidi, Eleni; Smith, Stephen R.	2015	WATER AND ENVIRONMENT JOURNAL	10.1111/wej.12130
293	Environmental implications of anaerobic digestion for manure management in dairy farms in Mexico: a life cycle perspective	Rivas-Garcia, Pasiano; Botello-Alvarez, Jose E.; Abel Seabra, Joaquim E.; da Silva Walter, Arnaldo C.; Estrada-Baltazar, Alejandro	2015	ENVIRONMENTAL TECHNOLOGY	10.1080/09593330.2015.1024758
294	Environmental impact of rejected materials generated in organic fraction of municipal solid waste anaerobic digestion plants: Comparison of wet and dry process layout	Colazo, Ana-Belen; Sanchez, Antoni; Font, Xavier; Colon, Joan	2015	WASTE MANAGEMENT	10.1016/j.wasman.2015.06.028
295	Significance of anaerobic digestion as a source of clean energy in wastewater treatment plants	Silvestre, G.; Fernandez, B.; Bonmati, A.	2015	ENERGY CONVERSION AND MANAGEMENT	10.1016/j.enconman.2015.05.033
296	The use of laboratory scale reactors to predict sensitivity to changes in operating conditions for full-scale anaerobic digestion treating municipal sewage sludge	McLeod, James D.; Othman, Maazuza Z.; Beale, David J.; Joshi, Deepak	2015	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2015.04.049
297	Effect of enzymatic pretreatment on the anaerobic digestion of milk fat for biogas production	Domingues, R. F.; Sanches, T.; Silva, G. S.; Bueno, B. E.; Ribeiro, R.; Kamimura, E. S.; Franzolin Neto, R.; Tommaso, G.	2015	FOOD RESEARCH INTERNATIONAL	10.1016/j.foodres.2015.03.027
298	High rate biomethanation technology for solid waste management and rapid biogas	Dahiya, Shikha; Joseph, Johny	2015	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2015.01.074

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299	Energy self-supply of large abattoir by sustainable waste utilization based on anaerobic mono-digestion	Ortner, Markus; Woess, David; Schumergruber, Alexander; Proell, Tobias; Fuchs, Werner	2015	APPLIED ENERGY	10.1016/j.apenergy.2015.01.039
300	Optimization of organic load for co-digestion of tannery solid waste in semi-continuous mode of operation	Kanchinadham, Bala Kameswari; Kalyanaraman, Chitra; Kumarasamy, Thanasekaran	2015	CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY	10.1007/s10098-014-0826-4
301	Biogas production from sewage sludge and microalgae co-digestion under mesophilic and thermophilic conditions	Caporgno, M. P.; Trobajo, R.; Caiola, N.; Ibanez, C.; Fabregat, A.; Bengoa, C.	2015	RENEWABLE ENERGY	10.1016/j.renene.2014.10.019
302	Anaerobic co-digestion of sewage sludge and fruit wastes: Evaluation of the transitory states when the co-substrate is changed	Fonoll, X.; Astals, S.; Dosta, J.; Mata-Alvarez, J.	2015	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2014.10.045
303	Two-Phase Anaerobic Digestion Model of a Tannery Solid Waste: Experimental investigation and Modeling with ANFIS	Arumugam, Thangamani; Parthiban, Latha; Rangasamy, Parthiban	2015	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	10.1007/s13369-014-1408-9
304	Thermo-acidic pretreatment of marine brown algae <i>Fucus vesiculosus</i> to increase methane production-a disposal principle for macroalgae waste from beaches	Barbot, Yann Nicolas; Falk, Harry Michael; Benz, Roland	2015	JOURNAL OF APPLIED PHYCOLOGY	10.1007/s10811-014-0339-x
305	Combined ultrasonication and thermal pre-treatment of sewage sludge for increasing methane production	Trzcinski, Antoine Prandota; Tian, Xinbo; Wang, Chong; Lin, Li Leonard; Ng, Wun Jern	2015	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES &	10.1080/10934529.2014.975561

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306	Effect of sludge treatment on biogas production from <i>Saccharina japonica</i> ethanol fermentation by-products	Lee, Sung-Mok; Lee, Jae-Hwa	2015	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY	10.1016/j.jiec.2014.03.041
307	Generation of Biogas Using Pine Needles as Substrate in Domestic Biogas Plant	Tripathi, Abhilash Kumar; Kumari, Mamta; Kumar, Ashish; Kumar, Sudhir	2015	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	
308	Qualitative Characterization of Liquid Effluents Olive and Estimation of Energy Potential in the Delegation of Kalaa Kebira (Tunisia)	M'Sadak, Y.; Makhlof, M.; El Amrouni, S.	2015	MOROCCAN JOURNAL OF CHEMISTRY	
309	Comparative Kinetic Study of Anaerobic Treatment of Thermally Pretreated Source-Sorted Organic Market Refuse	Das, Aritra; Mondal, Chanchal	2015	JOURNAL OF ENGINEERING	10.1155/2015/684749
310	The use of the core-shell structure of zero-valent iron nanoparticles (NZVI) for long-term removal of sulphide in sludge during anaerobic digestion	Su, Lianghu; Zhen, Guangyin; Zhang, Longjiang; Zhao, Youcai; Niu, Dongjie; Chai, Xiaoli	2015	ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS	10.1039/c5em00470e
311	Effects of the incorporation of drinking water sludge on the anaerobic digestion of domestic wastewater sludge for methane production	Torres-Lozada, Patricia; Sanchez Diaz-Granados, Jose; Alexis Parra-Orobio, Brayán	2015	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2015.291
312	Influence of phenylacetic acid pulses on anaerobic digestion performance and archaeal community structure in WWTP sewage sludge digesters	Cabrol, Lea; Urra, Johana; Rosenkranz, Francisca; Kroff, Pablo Araya; Plugge, Caroline M.; Lesty, Yves; Chamy, Rolando	2015	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2015.165

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314	Biogas and methane yield in response to co- and separate digestion of biomass wastes	Adelard, Laetitia; Poulsen, Tjalfe G.; Rakotoniaina, Volana	2015	WASTE MANAGEMENT & RESEARCH	10.1177/0734242X14559406
315	Pretreatment of piggery wastewater by a stable constructed microbial consortium for improving the methane production	Cai, Jian; Mo, Xiwei; Cheng, Guojun; Du, Dongyun	2015	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2015.017
316	Analysis of the potential to recover energy and nutrient resources from cattle slaughterhouses in Australia by employing anaerobic digestion	Jensen, P. D.; Sullivan, T.; Carney, C.; Batstone, D. J.	2014	APPLIED ENERGY	10.1016/j.apenergy.2014.09.009
317	Increasing biogas production from sewage sludge anaerobic co-digestion process by adding crude glycerol from biodiesel industry	Nartker, Steven; Ammerman, Michelle; Aurandt, Jennifer; Stogsdil, Michael; Hayden, Olivia; Antle, Chad	2014	WASTE MANAGEMENT	10.1016/j.wasman.2014.08.017
318	Anaerobic Nitrogen, Sulfide, and Carbon Removal in Anaerobic Granular Bed Reactor	Ahmad, Anwar; O-Aljasser, Abdulaziz	2014	ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY	10.1002/ep.11882
319	CASSAVA STARCH EXTRACTION EFFLUENT TREATMENT IN A ONE PHASE TUBULAR HORIZONTAL PILOT REACTOR WITH SUPPORT MEDIUM	Kuczman, Osvaldo; Tavares, Maria H. F.; Gomes, Simone D.; Guedes, Luciana P. C.; Grisotti, Geovane	2014	ENGENHARIA AGRICOLA	10.1590/S0100-69162014000600021
320	Impact of alkaline-hydrolyzed biosolids (Lystek) addition on the anaerobic digestibility of TWAS in lab - And full-scale anaerobic digesters	Elbeshbishy, Elsayed; Aldin, Saad; Nakhla, George; Singh, Ajay; Mullin, Bill	2014	WASTE MANAGEMENT	10.1016/j.wasman.2014.07.022

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322	Start-up and operation strategies on the liquefied food waste anaerobic digestion and a full-scale case application	Meng, Ying; Shen, Fei; Yuan, Hairong; Zou, Dexun; Liu, Yanping; Zhu, Baoning; Chufo, Akiber; Jaffar, Muhammad; Li, Xiujin	2014	BIOPROCESS AND BIOSYSTEMS ENGINEERING	10.1007/s00449-014-1211-8
323	Co-digestion of cultivated microalgae and sewage sludge from municipal waste water treatment	Olsson, Jesper; Feng, Xin Mei; Ascue, Johnny; Gentili, Francesco G.; Shabiimam, M. A.; Nehrenheim, Emma; Thorin, Eva	2014	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2014.08.069
324	INTEGRATED AND SUSTAINABLE SYSTEM FOR MULTI-WASTE VALORIZATION	Hidalgo, Dolores; Corona, Francisco; Martin-Marroquin, Jesus M.; Gomez, Marta; Aguado, Alicia; Antolin, Gregorio	2014	ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL	10.30638/eemj.2014.276
325	Study of a molten carbonate fuel cell combined heat, hydrogen and power system	Hamad, Tarek A.; Agll, Abdulhakim A.; Hamad, Yousif M.; Bapat, Sushrut; Thomas, Mathew; Martin, Kevin B.; Sheffield, John W.	2014	ENERGY	10.1016/j.energy.2014.08.020
326	Anaerobic Codigestion of Poultry Manure and Sewage Sludge under Solid-Phase Configuration	Fierro, Julio; Martinez, Judith E.; Rosas, Jose G.; Blanco, Daniel; Gomez, Xiomar	2014	ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY	10.1002/ep.11860
327	Mitigation of Greenhouse Gas Emissions by Water Management in a Forage Rice Paddy Field Supplemented with Dry-Thermophilic Anaerobic Digestion Residue	Riya, S.; Katayama, M.; Takahashi, E.; Zhou, S.; Terada, A.; Hosomi, M.	2014	WATER AIR AND SOIL POLLUTION	10.1007/s11270-014-2118-3

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329	Effects of inoculum source and co-digestion strategies on anaerobic digestion of residues generated in the treatment of waste vegetable oils	Hidalgo, Dolores; Martin-Marroquin, Jesus M.	2014	JOURNAL OF ENVIRONMENTAL MANAGEMENT	10.1016/j.jenvman.2014.04.004
330	Upflow anaerobic sludge blanket-hollow centered packed bed (UASB-HCPB) reactor for thermophilic palm oil mill effluent (POME) treatment	Poh, P. E.; Chong, M. P.	2014	BIOMASS & BIOENERGY	10.1016/j.biombioe.2014.05.007
331	Methanogenic archaeon as biogas producer in psychrophilic conditions	Korzeniewska, Ewa; Zielinski, Marcin; Filipkowska, Zofia; Dcbowski, Marcin; Kwiatkowski, Rafal	2014	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2014.04.063
332	Characterization of the sulfate reduction process in the anaerobic digestion of a very high strength and sulfate rich vinasse	Barrera, Ernesto L.; Spanjers, Henri; Romero, Osvaldo; Rosa, Elena; Dewulf, Jo	2014	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2014.03.057
333	An integrated approach to energy recovery from biomass and waste: Anaerobic digestion-gasification-water treatment	Milani, M.; Montorsi, L.; Stefani, M.	2014	WASTE MANAGEMENT & RESEARCH	10.1177/0734242X14538307
334	Pilot-Scale Sequential Anaerobic-Aerobic Biological Treatment of Waste Streams from a Paper Mill	Lin, Che-Jen; Zhang, Pengchong; Pongprueksa, Pruek; Liu, James; Evers, Simon A.; Hart, Peter	2014	ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY	10.1002/ep.11785
335	Sequential treatment of diluted olive pomace leachate by digestion in a pilot scale UASB reactor and BDD electrochemical oxidation	Katsoni, Athanasia; Mantzavinos, Dionissios; Diamadopoulos, Evan	2014	WATER RESEARCH	10.1016/j.watres.2014.03.010

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337	SWINE EFFLUENT TREATMENT USING ANAEROBIC DIGESTION AT DIFFERENT LOADING RATES	do Amaral, Andre C.; Kunz, Airton; Steinmetz, Ricardo L. R.; Cantelli, Fabio; Scussiato, Lucas A.; Justi, Karin C.	2014	ENGENHARIA AGRICOLA	10.1590/S0100-69162014000300019
338	Potential of high-frequency ultrasounds to improve sludge anaerobic conversion and surfactants removal at different food/inoculum ratio	Gallipoli, A.; Gianico, A.; Gagliano, M. C.; Braguglia, C. M.	2014	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2014.02.084
339	Co-digestion of sewage sludge and crude glycerol from biodiesel production	Athanasoulia, E.; Melidis, P.; Aivasidis, A.	2014	RENEWABLE ENERGY	10.1016/j.renene.2013.06.040
340	Electrical energy production and operational strategies from a farm-scale anaerobic batch reactor loaded with rice straw and piggery wastewater	Mussoline, Wendy; Esposito, Giovanni; Lens, Piet; Garuti, Gilberto; Giordano, Andrea	2014	RENEWABLE ENERGY	10.1016/j.renene.2013.07.043
341	Bioenergy production from diluted poultry manure and microbial consortium inside Anaerobic Sludge Bed Reactor at sub-mesophilic conditions	Jaxybayeva, Aigerim; Yangin-Gomec, Cigdem; Cetecioglu, Zeynep; Ozbayram, E. Gozde; Yilmaz, Fatih; Ince, Orhan	2014	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B- PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES	10.1080/03601234.2014.929911
342	Treatment of waste activated sludge together with agro-waste by anaerobic digestion: focus on effluent quality	Cavinato, C.; Da Ros, C.; Pavan, P.; Cecchi, F.; Bolzonella, D.	2014	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2013.736
343	Anaerobic co-digestion of winery waste and waste activated sludge: assessment of process feasibility	Da Ros, C.; Cavinato, C.; Cecchi, F.; Bolzonella, D.	2014	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2013.692

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345	The Effect of Trace Element Addition on the Performance Efficiency of An Anaerobic Moving Bed Biofilm Reactor Treating Wine Vinasse	Chai, Sheli; Guo, Jia; Chai, Yuan; Cai, Jing; Zhang, Qingwei	2013	JOURNAL OF PURE AND APPLIED MICROBIOLOGY	
346	Improving biogas production from protein-rich distillery wastewater by decreasing ammonia inhibition	Jiang, Xia; Hayashi, Junpei; Sun, Zhao Yong; Yang, Lu; Tang, Yue Qin; Oshibe, Hiroshi; Osaka, Noriko; Kida, Kenji	2013	PROCESS BIOCHEMISTRY	10.1016/j.procbio.2013.08.014
347	Ultrasonic and thermal pretreatments to enhance the anaerobic bioconversion of olive husks	Gianico, A.; Braguglia, C. M.; Mescia, D.; Mininni, G.	2013	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2013.08.054
348	Rapid and high yield biogas production from Jatropha seed cake by co-digestion with bagasse and addition of Fe ²⁺	Sen, Kalyani; Mahalingam, Shanthi; Sen, Biswarup	2013	ENVIRONMENTAL TECHNOLOGY	10.1080/09593330.2013.798000
349	Performance and kinetic evaluation of the semi-continuous anaerobic digestion of sunflower oil cake pretreated with ultrasound	Fernandez-Cegri, Victoria; Raposo, Francisco; Borja, Rafael	2013	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING	10.1080/10934529.2013.797275
350	Municipal Sewage Sludge Management in the Slovak Republic-Actual Status and Perspectives	Bodik, Igor; Kubaska, Miroslava	2013	JOURNAL OF RESIDUALS SCIENCE & TECHNOLOGY	
351	Semi full-scale thermophilic anaerobic digestion (TAnD) for advanced treatment	Lloret, Eva; Pastor, Laura; Pradas, Pilar; Pascual, Jose A.	2013	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2013.07.062

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352	Anaerobic digestion of municipal solid waste composed of food waste, wastepaper, and plastic in a single-stage system: Performance and microbial community structure characterization	Wan, Shungang; Sun, Lei; Douieb, Yaniv; Sun, Jian; Luo, Wensui	2013	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2013.07.140
353	Ecophysiological characteristics and biogas production of cadmium-contaminated crops	Zhang, Huayong; Tian, Yonglan; Wang, Lijun; Zhang, Luyi; Dai, Liming	2013	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2013.07.148
354	Stabilization of sewage sludge in the presence of nanoscale zero-valent iron (nZVI): abatement of odor and improvement of biogas production	Su, Lianghu; Shi, Xinlong; Guo, Guangzhai; Zhao, Aihua; Zhao, Youcai	2013	JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT	10.1007/s10163-013-0150-9
355	Analysis of microbial diversity and optimal conditions for enhanced biogas production from swine waste anaerobic digestion	Chung, Ying-Chien; Chang, Yu-Cheng; Chen, Yu-Pei; Lin, Wei-Chih; Lin, Hsiao-Hsien; Tseng, Ching-Ping	2013	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	10.1063/1.4822256
356	Enhancement of bio-gas production and xenobiotics degradation during anaerobic sludge digestion by ozone treated feed sludge	Ak, M. S.; Muz, M.; Komesli, O. T.; Gokcay, C. F.	2013	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2013.06.113
357	Inhibition effects of pentachlorophenol (PCP) on anaerobic digestion system	Xue, Jian-Liang; Liu, Guang-Min; Zhao, Dong-Feng; Li, Jin-Chun-Zi; Su, Xu-Dong	2013	DESALINATION AND WATER TREATMENT	10.1080/19443994.2013.803704
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360	Biogas production from broiler manure, wastewater treatment plant sludge, and greenhouse waste by anaerobic co-digestion	Sarikaya, E.; Demirer, G. N.	2013	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	10.1063/1.4818771
361	BIOGAS PRODUCTION BY ANAEROBIC DIGESTION OF WASTEWATER FROM PALM OIL MILL INDUSTRY	Nabarlatz, Debora-Alcida; Arenas-Beltran, Ligia-Patricia; Herrera-Soraca, Diana-Milena; Nino-Bonilla, Diana-Andrea	2013	CT&F-CIENCIA TECNOLOGIA Y FUTURO	
362	Towards a metagenomic understanding on enhanced biomethane production from waste activated sludge after pH 10 pretreatment	Wong, Mabel Ting; Zhang, Dong; Li, Jun; Hui, Raymond Kin Hi; Tun, Hein Min; Brar, Manreetpal Singh; Park, Tae-Jin; Chen, Yinguang; Leung, Frederick C.	2013	BIOTECHNOLOGY FOR BIOFUELS	10.1186/1754-6834-6-38
363	ANAEROBIC CO-DIGESTION OF CRUDE GLYCERIN AND STARCH INDUSTRY EFFLUENT	Larsen, Andrea C.; Gomes, Benedito M.; Gomes, Simone D.; Zenatti, Dilcemara C.; Torres, Douglas G. B.	2013	ENGENHARIA AGRICOLA	10.1590/S0100-69162013000200013
364	Bioelectrochemical enhancement of hydrogen and methane production from the anaerobic digestion of sewage sludge in single-chamber membrane-free microbial electrolysis cells	Guo, Xuesong; Liu, Junxin; Xiao, Benyi	2013	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2012.11.087
365	Technologies for recovery of energy from wastewaters: Applicability and potential in South Africa	Stafford, William; Cohen, Brett; Pather-Elias, Simisha; von Blottnitz, Harro; van Hille, Robert; Harrison, Sue T. L.; Burton, Stephanie G.	2013	JOURNAL OF ENERGY IN SOUTHERN AFRICA	

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367	Sludge accumulation and conversion to methane in a septic tank treating domestic wastewater or black water	Elmitwalli, Tarek	2013	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2013.337
368	Anaerobic treatment of residual lemon pulp in digesters with semi-continuous feed	Navarro, A. R.; Lopez, Z.; Salguero, J.; Maldonado, M. C.	2013	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2012.587
369	Anaerobic co-digestion of sewage sludge and primary clarifier skimmings for increased biogas production	Alanya, S.; Yilmazel, Y. D.; Park, C.; Willis, J. L.; Keaney, J.; Kohl, P. M.; Hunt, J. A.; Duran, M.	2013	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2012.550
370	Using wastewater and high-rate algal ponds for nutrient removal and the production of bioenergy and biofuels	Batten, David; Beer, Tom; Freischmidt, George; Grant, Tim; Liffman, Kurt; Paterson, David; Priestley, Tony; Rye, Lucas; Threlfall, Greg	2013	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2012.618
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372	Anaerobic digestibility of the waste activated sludge discharged from large-scale membrane bioreactors	Yu, Zhiyong; Wen, Xianghua; Xu, Meilan; Qi, Meng; Huang, Xia	2012	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2012.09.024

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374	Optimization of Biogas Production from Co-digestion of Whey and Cow Manure	Hublin, Andrea; Zokic, Tatjana Ignjatic; Zelic, Bruno	2012	BIOTECHNOLOGY AND BIOPROCESS ENGINEERING	10.1007/s12257-012-0044-z
375	Balancing hygienization and anaerobic digestion of raw sewage sludge	Astals, S.; Venegas, C.; Peces, M.; Jofre, J.; Lucena, F.; Mata-Alvarez, J.	2012	WATER RESEARCH	10.1016/j.watres.2012.07.035
376	Biogas generation by two-phase anaerobic digestion of organic fraction of municipal solid waste	Dogan, Eylem; Demirer, Goksel N.	2012	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	10.1063/1.4769203
377	Importance of heat transfer in an anaerobic digestion plant in a continental climate context	Merlin, Gerard; Kohler, Francois; Bouvier, Maele; Lissolo, Thierry; Boileau, Herve	2012	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2012.08.018
378	Anaerobic co-digestion of excess brewery yeast in a granular biomass reactor to enhance the production of biomethane	Zupancic, Gregor D.; Skrjanec, Igor; Logar, Romana Marinsek	2012	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2012.08.064
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380	Anaerobic co-digestion of municipal solid organic waste with melon residues to enhance biodegradability and biogas production	Anjum, Muzammil; Khalid, Azeem; Mahmood, Tariq; Arshad, Muhammad	2012	JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT	10.1007/s10163-012-0082-9
381	Thermophilic anaerobic digestion of pulp and paper mill primary sludge and co-digestion of primary and secondary sludge	Bayr, Suvi; Rintala, Jukka	2012	WATER RESEARCH	10.1016/j.watres.2012.06.033

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383	Effect of additives on process stability of mesophilic anaerobic monodigestion of pig slaughterhouse waste	Bayr, Suvi; Pakarinen, Outi; Korppoo, Aki; Liuksia, Saku; Vaisanen, Ari; Kaparaju, Prasad; Rintala, Jukka	2012	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2012.06.009
384	Shifts of microbial community structure during anaerobic digestion of agro-industrial energetic crops and food industry byproducts	Merlino, Giuseppe; Rizzi, Aurora; Villa, Federica; Sorlini, Claudia; Brambilla, Massimo; Navarotto, Pierluigi; Bertazzoni, Barbara; Zagni, Matteo; Araldi, Fabio; Daffonchio, Daniele	2012	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	10.1002/jctb.3784
385	Acclimation of an anaerobic consortium capable of effective biomethanization of mechanically-sorted organic fraction of municipal solid waste through a semi-continuous enrichment procedure	Bertin, Lorenzo; Bettini, Cristina; Zanaroli, Giulio; Fraraccio, Serena; Negroni, Andrea; Fava, Fabio	2012	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	10.1002/jctb.3809
386	Methane emission during municipal wastewater treatment	Daelman, Matthijs R. J.; van Voorthuizen, Ellen M.; van Dongen, Udo G. J. M.; Volcke, Eveline I. P.; van Loosdrecht, Mark C. M.	2012	WATER RESEARCH	10.1016/j.watres.2012.04.024
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388	INCREASE OF BIOGAS PRODUCTION THROUGH CO-DIGESTION OF LIPIDS AND SEWAGE SLUDGE	Noutsopoulos, C.; Mamais, D.; Antoniou, K.; Avramides, C.	2012	GLOBAL NEST JOURNAL	

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390	Life Cycle Environmental and Cost Impacts of Using an Algal Turf Scrubber to Treat Dairy Wastewater	Higgins, Brendan T.; Kendall, Alissa	2012	JOURNAL OF INDUSTRIAL ECOLOGY	10.1111/j.1530-9290.2011.00427.x
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393	Biogas production and feasibility of energy recovery systems for anaerobic treatment of wool-scouring effluent	Schoen, Erika J.; Bagley, David M.	2012	RESOURCES CONSERVATION AND RECYCLING	10.1016/j.resconrec.2012.02.004
394	Optimization of inoculum to substrate ratio for bio-energy generation in co-digestion of tannery solid wastes	Kameswari, K. Sri Bala; Kalyanaraman, Chitra; Porselvam, S.; Thanasekaran, K.	2012	CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY	10.1007/s10098-011-0391-z
395	Effect of leachate recirculation on mesophilic anaerobic digestion of food waste	Shahriari, Haleh; Warith, Mostafa; Hamoda, Mohamed; Kennedy, Kevin J.	2012	WASTE MANAGEMENT	10.1016/j.wasman.2011.10.022
396	A combined process to treat lemon industry wastewater and produce biogas	Navarro, A. R.; Rubio, M. C.; Maldonado, M. C.	2012	CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY	10.1007/s10098-011-0373-1
397	Assessment of the potential for biogas production from wheat straw leachate in upflow anaerobic sludge blanket digesters	Idrus, S.; Banks, C. J.; Heaven, S.	2012	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2012.511

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399	Anaerobic digestion of organic fraction of municipal solid waste combining two pretreatment modalities, high temperature microwave and hydrogen peroxide	Shahriari, Haleh; Warith, Mostafa; Hamoda, Mohamed; Kennedy, Kevin J.	2012	WASTE MANAGEMENT	10.1016/j.wasman.2011.08.012
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402	A Computer Program for Modeling the Conversion of Organic Waste to Energy	Namuli, Rachel; Laflamme, Claude B.; Pillay, Pragasen	2011	ENERGIES	10.3390/en4111973
403	Hydrogen and methane yields of untreated, water-extracted and acid (HCl) treated maize in one- and two-stage batch assays	Pakarinen, O. M.; Kaparaju, P. L. N.; Rintala, J. A.	2011	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2011.08.028
404	Net energy production associated with pathogen inactivation during mesophilic and thermophilic anaerobic digestion of sewage sludge	Ziemba, Christopher; Peccia, Jordan	2011	WATER RESEARCH	10.1016/j.watres.2011.06.014
405	Anaerobic Digestion of Raw and Thermally Hydrolyzed Wastewater Solids Under Various Operational Conditions	Wilson, Christopher A.; Tanneru, Charan T.; Banjade, Sarita; Murthy, Sudhir N.; Novak, John T.	2011	WATER ENVIRONMENT RESEARCH	10.2175/106143011X12928814444934

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407	Optimization of two-phase thermophilic anaerobic digestion of biowaste for hydrogen and methane production through reject water recirculation	Cavinato, C.; Bolzonella, D.; Fatone, F.; Cecchi, F.; Pavan, P.	2011	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2011.03.084
408	A two-stage ultrafiltration and nanofiltration process for recycling dairy wastewater	Luo, Jianquan; Ding, Luhui; Qi, Benkun; Jaffrin, Michel Y.; Wan, Yinhua	2011	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2011.05.012
409	Modeling Volatile Fatty Acid Concentration in Livestock Manure-Based Anaerobic Digesters by Simple Titration	Moller, Henrik B.; Ward, Alastair J.	2011	ENVIRONMENTAL ENGINEERING SCIENCE	10.1089/ees.2010.0253
410	Process recovery of biohydrogenation in a pilot plant from methanogens invasion	Cheng, Sheng-Shung; Chao, Yu-Chieh; Yang, Keng-Hao; Bai, Ming-Der	2011	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2010.09.066
411	On farm biogas production: A method to reduce GHG emissions and develop more sustainable livestock operations	Masse, D. I.; Talbot, G.; Gilbert, Y.	2011	ANIMAL FEED SCIENCE AND TECHNOLOGY	10.1016/j.anifeedsci.2011.04.075
412	Enhancing biomethanation of municipal waste sludge with grease trap waste as a co-substrate	Zhu, Zhenwei; Hsueh, Michael K.; He, Qiang	2011	RENEWABLE ENERGY	10.1016/j.renene.2010.11.014
413	Mesophilic Anaerobic Digestion with High-Temperature Microwave Pretreatment and Importance of Inoculum Acclimation	Toreci, Isil; Droste, Ronald L.; Kennedy, Kevin J.	2011	WATER ENVIRONMENT RESEARCH	10.2175/106143010X12780288628651

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415	Anaerobic Co-Digestion of table olive debittering & washing Effluent, cattle manure and pig manure in batch and high volume laboratory anaerobic digesters: Effect of temperature	Zarkadas, Ioannis S.; Pilidis, George A.	2011	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2011.01.065
416	Modelling of environmental impacts from biological treatment of organic municipal waste in EASEWASTE	Boldrin, Alessio; Neidel, Trine Lund; Damgaard, Anders; Bhandar, Gurbakhash S.; Moller, Jacob; Christensen, Thomas H.	2011	WASTE MANAGEMENT	10.1016/j.wasman.2011.01.025
417	Multi-objective cascade controller for an anaerobic digester	Garcia-Dieguez, Carlos; Molina, Francisco; Roca, Enrique	2011	PROCESS BIOCHEMISTRY	10.1016/j.procbio.2011.02.015
418	The effect of waste paper on the kinetics of biogas yield from the co-digestion of cow dung and water hyacinth	Yusuf, Momoh O. L.; Ify, Nwaogazie L.	2011	BIOMASS & BIOENERGY	10.1016/j.biombioe.2011.12.033
419	Effect of pH, temperature and air flow rate on the continuous ammonia stripping of the anaerobic digestion effluent	Gustin, Simon; Marinsek-Logar, Romana	2011	PROCESS SAFETY AND ENVIRONMENTAL PROTECTION	10.1016/j.psep.2011.01.001
420	Novel anaerobic digestion process with sludge ozonation for economically feasible power production from biogas	Komatsu, K.; Yasui, H.; Goel, R.; Li, Y. Y.; Noike, T.	2011	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2011.382
421	Biomethanation of Palm Oil Mill Effluent (POME) with a thermophilic mixed culture cultivated using POME as a substrate	Poh, P. E.; Chong, M. F.	2010	CHEMICAL ENGINEERING JOURNAL	10.1016/j.cej.2010.08.044

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423	Anaerobic digestion of pressed off leachate from the organic fraction of municipal solid waste	Nayono, Satoto E.; Winter, Josef; Gallert, Claudia	2010	WASTE MANAGEMENT	10.1016/j.wasman.2009.09.019
424	Anaerobic co-digestion of the organic fraction of municipal solid waste with FOG waste from a sewage treatment plant: Recovering a wasted methane potential and enhancing the biogas yield	Martin-Gonzalez, L.; Colturato, L. F.; Font, X.; Vicent, T.	2010	WASTE MANAGEMENT	10.1016/j.wasman.2010.03.029
425	Co-digestion of press water and food waste in a biowaste digester for improvement of biogas production	Nayono, Satoto E.; Gallert, Claudia; Winter, Josef	2010	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2010.03.123
426	Biogas generation potential by anaerobic digestion for sustainable energy development in India	Rao, P. Venkateswara; Baral, Saroj S.; Dey, Ranjan; Mutnuri, Srikanth	2010	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	10.1016/j.rser.2010.03.031
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429	Methane production in low-cost, unheated, plug-flow digesters treating swine manure and used cooking grease	Lansing, Stephanie; Martin, Jay F.; Botero Botero, Raul; Nogueira da Silva, Tatiana; Dias da Silva, Ederson	2010	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2010.01.100

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433	Energy production, nutrient recovery and greenhouse gas emission potentials from integrated pig manure management systems	Prapasongsa, T.; Poulsen, T. G.; Hansen, J. A.; Christensen, P.	2010	WASTE MANAGEMENT & RESEARCH	10.1177/0734242X09338728
434	Anaerobic digestion of tannery waste: Semi-continuous and anaerobic sequencing batch reactor processes	Zupancic, Gregor D.; Jemec, A.	2010	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2009.07.028
435	Alternative biological systems for the treatment of vinasse from wine	Vlyssides, A.; Barampouti, E. M.; Mai, S.; Stamatoglou, A.; Tsimas, E.	2010	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2010.647
436	Biogas recovery from a temperate climate covered anaerobic pond	Heubeck, S.; Craggs, R. J.	2010	WATER SCIENCE AND TECHNOLOGY	10.2166/wst.2010.965
437	Co-digestion of sewage sludge and sterilized solid slaughterhouse waste: Methane production efficiency and process limitations	Pitk, Peep; Kaparaju, Prasad; Palatsi, Jordi; Affes, Rim; Vilu, Raivo	2013	BIORESOURCE TECHNOLOGY	10.1016/j.biortech.2013.02.029