

BIBLIOGRAFIA

AAVV – BP Statistical review of world energy 2008 - BP (2008).

AAVV – Dati statistici sull'energia elettrica da fonte rinnovabile in Italia – Gestore dei Servizi Elettrici – GSE S.p.A.(2007).

AAVV – Dati statistici sull'energia elettrica in Italia 2007 – Terna (2007).

AAVV.- Key World Energy Statistics 2007 - International Energy Agency (IEA) (2007), 25.

AAVV.- Key World Energy Statistics 2008 - International Energy Agency (IEA) (2008), 13.

APAT - Le biomasse legnose: un'indagine sulla potenzialità del settore forestale italiano nell'offerta di fonti di energia - Rapporti, (2003) 30.

APAT (2005); “Digestione anaerobica della frazione organica dei rifiuti solidi-manuali e linee guida”, Italian Agency for Environmental Protection and Technical Services

“Biogas: come ottenere nuovo reddito per l'agricoltura”, (2010); a cura di A.Ragazzoni, Ed. L'Informatore Agrario.

“*Biomethane and Biohydrogen production: Status and Perspectives of biological hydrogen and methane production.*”, (2005); Ed. Da J.H.Reith, R.H.Wijffels, H.Barten

CITEC (2000); “Le linee guida per la progettazione, la realizzazione e la gestione degli impianti a tecnologia complessa per lo smaltimento dei rifiuti urbani.”; a cura di A.Magagni; Ed. Hyper.

CRPA (2008); “Energia dal biogas – II edizione”, Ed. AIEL (Associazione Italiana Energie Agroforestali).

ITABIA - Le biomasse per l'energia e l'ambiente- Rapporto 2003, Ministero dell'Ambiente e della Tutela del Territorio (2004).

ITABIA - Le coltivazione da biomassa per un'energia alternativa- Agricoltura (1999) 293
James S., Wiles C., Swartzbaugh J., Smith R., (1980); “Mixing in large-scale municipal solid waste-sewage sludge anaerobic digesters.”; In *Biotechnology and Bioengineering Symposium*, Vol. 10, pp. 259-272.

Tipperary Institute, 2007. *ELREN Renewable Energy Training Manual* [online at www.elren.net], published by Carlow LEADER and Tipperary Institute, Ireland.

Adani F., Schievano A., Gozzi A., D'Imporzano G., (2007): “Biogas da biomasse: metodo per la stima rapida del potenziale di biogas di biomasse eterogenee”; atti del convegno “*Ecomondo 2007*” a Rimini.

Alphenaar P.A., Visser A., Lettinga G., (1993); “The effect of liquid upward velocity and hydraulic retention time on granulation in UASB reactors treating wastewater with a high sulphate content.” *Bioresour. Technol.* 43, 249–258.

- Al Seadi T., Rutz D., Prassl H., Köttner M., Finsterwalder T., Volk S., Janssen R. (2008); "Biogas Handbook."; ISBN 978-87-992962-0-0; Published by University of Southern Denmark Esbjerg, Niels Bohrs Vej 9-10, DK-6700 Esbjerg, Denmark, <http://www.sdu.dk>
- Anderson G.K., Donnelly T., Mckeown, K.J. (1982); "Identification and control of inhibition in the anaerobic treatment of industrial wastewater"; *Process Biochem.* 17: 28–32.
- Angelidaki I., Petersen S.P., Ahring B.K., (1990); "Effects of lipids on thermophilic anaerobic digestion and reduction of lipid inhibition upon addition of bentonite."; *Appl. Microbiol. Biotechnol.*, 33, 469-472.
- Angelidaki, I., Ahring, B.K. (1993); "Thermophilic digestion of livestock waste: the effect of ammonia"; *Appl. Microbiol. Biotechnol.* n° 38: 560–564 .
- Angelidaki I., Ahring B.K.; "Anaerobic thermophilic digestion of manure at different ammonia loads: effect of temperature."; *Water Res.*(1994) 28,. 727–731.
- Angelidaki I., B.K.Ahring (1997); "Codigestion of olive mill wastewaters with manure, household waste or sewage sludge"; *Biodegradation*, n° 8.
- Angenent L.T., Karim K.et al. (2004): "Production of bioenergy and biochemicals from industrial and agricultural wastewater"; *Trends in Biotechnology*, vol. 22 n° 9.
- Antonopoulou G., Gavala H.N., Skiadas I.V., Angelopoulos K., Lyberatos G. (2008): "Biofuels generation from sweet sorghum: fermentative hydrogen production and anaerobic digestion of the remaining biomass"; *Water Science Technology*, vol. 34 n° 5-6.
- Aspè E., Martì M., Roeckel M., (1997); "Anaerobic treatment of fishery wastewater using a marine sediment inoculum."; *Water Res.*, 31 (9), 2147-2160.
- Atlas RM and Bartha R., (1987); *Microbial ecology*. Benjamin/Cummings, Menlo Park, CA.
- Banks C.J., Wang Z., (1999); „Development of a two phase anaerobic digester for the treatment of mixed abattoir wastes.“; *Water Sci. Technol.* 40 (1), 67-76.
- Barlaz MA, Ham RK, Schaefer DM, (1990); "Methane production from municipal refuse: decomposition: a review of enhancement techniques and microbial dynamics."; *Crit. Rev. Environm.Control* 19 (6): 557-584.
- Baserja U., (1984); "Biogas production from cowdung: influence of time and fresh liquid manure."; *Swiss-Biotech.* 2, 19-24.
- Bendixen H.J., (1994); "Safeguards against pathogens in Danish biogas plants."; *Water Sci. Technol.*, 30 (12), 171-180.
- Bhattacharya S.K., Parkin G.F. (1989); "The effect of ammonia on methane fermentation process"; *J. Water Pollut. Control Fed.* n° 61, vol. 1:55–59.
- Bhattacharya S.K., Uberoi V., Madura R.L., Haghghi-Podeh M.R. (1995b); "Effect of cobalt on methanogenesis."; *Environ. Technol.* n° 16, vol. 3: 271–278.

- Blonskaja V., Mener A., Vilu R. (2003); “Use of two-stage anaerobic treatment for distillery waste”; *Advances in Environmental Research* 7, vol. 3: 671-678.
- Blum D.J.W., Speece R.E. (1991); “A database of chemical toxicity to environmental bacteria and its use in interspecies comparisons and correlations.”; *J. Water Pollut. Control Fed.* 63: 198–207.
- Boardman G.D., McVeigh P.J. (1997); “Use of UASB technology to treat crab processing wastewaters”; *J. Environ. Eng.* 123: 776–785.
- Boone D.R. (1982); “Terminal reactions in the anaerobic digestion of animal waste.”; *Appl. and Environ. Microbiol.* n° 43:57-64.
- Borja R., Martin A., Banks C.J., Alonso V., Chica A. (1994): “A kinetic study of anaerobic digestion of olive mill wastewater at mesophilic and thermophilic temperatures”; *Environmental Pollution*, n° 88.
- Borja R., Sanchez E., Duran M.M. (1996a); “Effect of the clay mineral zeolite on ammonia inhibition of anaerobic thermophilic reactors treating cattle manure.”; *J. Environ. Sci. Health* 31, 2: 479–500 .
- Borja R., Sanchez E., Weiland P. (1996b); “Influence of ammonia concentration on thermophilic anaerobic digestion of cattle manure in upflow anaerobic sludge blanket (UASB) reactors.”; *Process Biochem.* 31, 5: 477–483.
- Borja R., Alba J., Banks C.J. (1997); “Impact of the main phenolic compounds of olive mill wastewater (OMW) on the kinetics of acetoclastic methanogenesis.”; *Process Biochem.* 32, 2: 121-133.
- Boucquey, J.B., Renard, P., Amerlynck, P., Filho, P.M., Agathos, S.N., Naveau, H., Nyns, E.J. (1995); “ High-rate continuous biodegradation of concentrated chlorinated aliphatics by a durable enrichment of methanogenic origin under carrier-dependent conditions.”; *Biotechnol. Bioeng.* 47: 298–307.
- Braun B., Huber P., Meyrath J. (1981); “Ammonia toxicity in liquid piggery manure digestion.”; *Biotechnol. Lett.* 3: 159–164.
- Brentner L.B., J.Peccia, J.B.Zimmerman, (2010): “Challenges in Developing Biohydrogen as a Sustainable Energy Source: Implications for a Research Agenda.”; *Environm. Sci. Technol.*, 44.
- Broughton M.J., Thiele J.H., Birch E.J., Cohen A., (1998); “Anaerobic batch digestion of sheep tallow.”; *Water Res.* 32, 1423-1428.
- Buzjoezek G., Oleszkiewicz J., Sparling R., Cenkowski S. (2000); “High solid anaerobic digestion of chicken manure.”; *J. Agric. Eng. Res.* 76: 51–60
- Callander I.J., Barford J.P. (1983b); “Precipitation, chelation, and the availability of metals as nutrients in anaerobic digestion - II.”; *Applications.Biotechnol. Bioeng.* 25, 8: 1959–1972.
- Cecchi F., Mata-Alvarez J., Pavan P., Vallini G., De Poli F. (1992); “Seasonal effects on anaerobic digestion of the source sorted organic fraction of municipal solid waste”; *Waste Management & Research*, 10.

Chae K.J., Jang A.M., Yim S.K., Kim I.S. (2008): “The effects of digestion temperature and temperature shock on the biogas yields from the mesophilic anaerobic digestion of swine manure”; *Bioresource Technology*, 99.

Chang F.Y., Lin C.Y., (2004); “Biohydrogen production using an up-flow anaerobic sludge blanket reactor.”; *Int. J. Hydrogen Energy*, 29 (1), 33-39.

Chen Y., Cheng J.J., Creamer K.S. (2008): “Inhibition of anaerobic digestion process: A review”; *Bioresource Technology*, 99.

Cheung Prudence WS, Zhou H., Hacker R. (2002): “Inhibitory effects on anaerobic digestion of swine manure”; presented at *CSCE/EWRI of ASCE Environmental Engineering Conference*, Niagara.

Choi E., Rim J.M., (1991); “Competition and inhibition of sulphate reducers and methane producers in anaerobic treatment.”; *Water Sci. Technol.*, 23, 1259-1264.

Choi H., Jeong S., Chung Y., (2006): “Enhanced anaerobic gas production of waste activated sludge pretreated by pulse power technique”; *Bioresource Technology*, 97.

Chynoweth D.P., Pullammanappallil P.: “Anaerobic digestion of municipal solid wastes”; *Microbiology of solid waste*.

Chynoweth D.P., Wilkie A.C., Owens J.M. (1998): “Anaerobic Processing of Piggery Wastes: a review”; presented at *1998 ASAE Annual International Meeting*, Orlando, Florida.

Claassen P.A.M., T.De Vrije, E.G.Koukios, E.V.J.Van Niel, E.Ozgun, I.Eroglu, I.Nowik, M.Modigell, W.Wukovits, A.Friedl, D.Ochs, W.Ahrer (2010): “Non Thermal Production of Pure Hydrogen from Biomass: HYVOLUTION”; *Hydrogen and Fuel Cell Energy*, edited by Detlef Stolten.

Clark P.B., Hillman P.F., (1995); “Enhancement of anaerobic digestion using duckweed (*Lemna minor*) enriched with iron.”; *Water Environ. Managem. J.*, 10 (2), 92-95.

Colleran E., Pender S., Phipott U., O’Flaherty V., Leahy B. (1998); “Full-scale and laboratory-scale anaerobic treatment of citric acid production wastewater.”; *Biodegradation* 9: 233–245.

Cooney M., Maynard N., Cannizzaro C., Benemann J. (2007): “Two-phase anaerobic digestion for production of hydrogen-methane mixtures”; *Bioresource Technology*, 98.

Dague R.R., McKinney R.E., Pfeffer J.T., (1970); “Solids retention in anaerobic waste treatment systems.”; *J. Water Pollut. Control Fed.*, 42 (2) Part 2, R29-R46.

Dar G.H., Tandon S.M., (1987); “Biogas production from pretreated wheat straw, lantana residues, apple and peach leaf litter with cattle dung.”; *Biol. Wastes* 21 (2): 75-83.

De Baere L.A., Devocht M., van Assche P., Verstraete W. (1984); “Influence of high NaCl and NH₄Cl salt levels on methanogenic associations.”; *Water Res.* 18, 543–548.

- De Gioannis G., A.Muntoni, A.Pisanu (2005); “Energy recovery from waste through biological hydrogen production”; *Proceedings Sardinia 2005, tenth International Waste Management and Landfill Symposium*.
- Dearman B., Marschner P., Bentham R.H. (2006); “Methane production and microbial community structure in single-stage batch and sequential batch systems anaerobically co-digesting food waste and biosolids”; publ. su *Appl. Microbiol. e Biotechnol.*, 69.
- Demirel B, Yenigun O. (2002); “Two-phase anaerobic digestion processes: a review”; *Journal of Chemical Technology & Biotechnology* n° 77,7: 743-755.
- Demirel B., Scherer P. (2008): “Production of methane from sugar beet silage without manure addition by a single-stage anaerobic digestion process”; *Biomass and Bioenergy*, 32.
- Denac M., Miquel A., Dunn I.J., (1988); “modelling dynamic experiments on the anaerobic degradation of molasses wastewater.”; *Biotech. and Bioeng.* 31, 1-10.
- Deng L.W., Zheng P., Chen Zi-Ai (2006): “Anaerobic digestion and post-treatment of swine wastewater using IC-SBR process with bypass of raw wastewater”; *Process Biochemistry*, n° 41.
- Desai M., Madamwar D., (1994); “Anaerobic digestion of a mixture of cheese way, poultry waste and cattle dung: a study of the use of adsorbents to improve digester performance.”; *Environ. Pollut.* 86 (3), 337-340.
- Dhawale M.R., (1996); “Anaerobic fermentation with chemical inducers and higher solids for biogas production.”; Project sponsored by MNES, 1993-1996, Shivasadan Renewable Energy Research Institute, Sangli, Maharashtra, India.
- Diaz L., Trezek G., (1977); “Biogasification of a selected fraction of municipal solid wastes.”; *Compost Sci.* 8-13.
- Dimirer G.N., Speece, R.E. (1998); “Biotransformation of four 3-carbon compounds (acrolein, acrylic acid, allyl alcohol and N-propanol) in UASB reactors”; *Water Res.* n° 32, vol. 3: 747–759.
- Dolfing, J., (1992); “The energetic consequences of hydrogen gradients in methanogenic ecosystems.”; *FEMS Microbiol. Ecol.*, 101, 183–187.
- Edelmann, W., Schleiss, K., Joss, A., (2000); “Ecological, energetic and economic comparison of anaerobic digestion with different competing technologies to treat biogenic wastes.”; *Water Sci. Technol.*, 41 (3), 263–273.
- Esposito G., Wejma J., Pirozzi F., Lens P.N.L. (2003); “Effect of the sludge retention time on H₂ utilization in a sulphate reducing gas-lift reactor”; *Process Biochemistry*, 39.
- Fang H.H.P., Chen T., Chan O.C. (1995); “Toxic effects of phenolic pollutants on anaerobic benzoate-degrading granules.”; *Biotechnol. Lett.* 17, vol. 1: 117–120.
- Fannin K.F., (1987); “Start-up operation, stability and control.”; In D.P. Chynoweth and R.Isaacson (ed.) *Anaerobic Digestion of Biomass*, Elsevier Applied Science, Ltd., London, p. 141-169.

Fynn G., Syafila M. (1990); "Hydrogen regulation of acetogenesis from glucose by freely suspended and immobilized acidogenic cells in continuous culture."; *Biotechnology Letters* 12, 621-626.

Gadd G.M., Griffiths A.J. (1978); "Microorganisms and heavy metal toxicity"; *Microb. Ecol.* 4: 303-317.

Gaddy J.L., (1994); "Improving performance of anaerobic solids digester."; US Patent 5342524.

Galbraith H., Miller T.B., Paton A.M., Thompson J.K., (1971); "Antibacterial activity of long chain fatty acids and the reversal with calcium, magnesium, ergocalciferol and cholesterol."; *J. Appl. Bacteriol.* 34, 803-813.

Gallert C., Bauer S., Winter J. (1998); "Effect of ammonia on the anaerobic degradation of protein by a mesophilic and thermophilic biowaste population."; *Appl. Microbiol. Biotechnol.* n° 50: 495-501.

Gallert C., Winter J. (1997); "Mesophilic and thermophilic anaerobic digestion of source-sorted organic waste: effect of ammonia on glucose degradation and methane production"; *Appl. Microbiol. Biotechnol.* n° 48: 405-410.

Garba B., (1996); "Effect of temperature and retention period on biogas production from lignocellulosic material."; *Renew. Energy-An Int. J.*, 9 (1-4), 938-941.

Gavala H.N., Ahring B.K., (2002); "Inhibition of the anaerobic digestion process by linear-alkylbenzene sulfonates."; *Biodegradation* 13, 201-209.

Gavala H.N., I.V.Skiadas, A.Nikolaos, A.Bozinis, G.Lyberatos (1997); Anaerobic codigestion of agricultural industries' wastewaters". *Wat. Sci. Techn.*, n° 11, vol.34.

Gollakota K.G., Meher K.K., (1988); "Effect of particle size, temperature, loading rate and stirring on biogas production from castor cake (oil expelled)."; *Biological Wastes*, 24, 243-249.

Gòmez Da Costa C. (2006); "Learning from the European Biogas Model."; Ministero dell'Agricoltura, Alimentazione ed Affari Rurali, Toronto.

Gòmez X., Cuetos M.J., Cara J., Moràn A., García A.I. (2006): "Anaerobic co-digestion of primary sludge and the fruit and vegetable fraction of the municipal solid wastes: Conditions of mixing and evaluation of the organic loading rate"; *Renewable Energy*, n° 31.

Gonzales-Gil G., Kleerebezem R., Lettinga G.(2002); "Conversion and toxicity characteristics of formaldehyde in aceticlastic methanogenic sludge"; *Biotechnol. Bioeng.* n° 79: 314-322.

Gungor-Demirci G., Demirer G.N. (2004): "Effect of initial COD concentration, nutrient addition, temperature and microbial acclimation on anaerobic treatability of broiler and cattle manure"; *Bioresource Technology*, n° 93.

Gupta A., Flora J.R.V. Gupta M., Sayles G.D., Suidan M.T.(1994); "Methanogenesis and sulphate reduction in chemostats-1: kinetic studies and experiments"; *Water Res.* n° 28: 781-793.

Hanaki K., Matsuo T., Nagase M., (1981); “Mechanism of inhibition caused by long-chain fatty acids in anaerobic digestion process.”; *Biotech. Bioeng.* 23, 1591-1610.

Hansen K.H., Angelidaki I., Ahring B.K. (1997): “Anaerobic digestion of swine manure: inhibition by ammonia”; *Water Resource.*, vol. 32 n° 1.

Hansen K.H. Angelidaki, I. Ahring, B.K. (1998); “Anaerobic digestion of swine manure: inhibition by ammonia”; *Water Res.* n° 32: 5–12.

Hansen K.H. Angelidaki, I. Ahring, B.K. (1999); “Improving thermophilic anaerobic digestion of swine manure.”; *Water Res.* n° 33: 1805–1810.

Harada H., Uemura S., Monomoi K. (1994); “Interactions between sulphate-reducing bacteria and methane-producing bacteria in UASB reactors fed with low strength wastes containing different levels of sulphate”; *Water Res.* n° 355–367.

Harmon J.L., Svoronos S.A., Lyberatos G. and Chynoweth D.P., (1993); “Adaptive temperature optimization of continuous anaerobic digesters.”; *Biomass and Bioenergy*, 5, 279-288.

Hartmann H., B.K.Ahring (2005); “Anaerobic digestion of the organic fraction of municipal solid waste: Influence of co-digestion with manure”; *Water Res.*, n° 39.

Hashimoto A.G. (1984); “Methane from swine manure: effect of temperature and influent substrate concentration on kinetic parameter (k).”; *Agric. Wastes* n° 9: 299–308.

Hashimoto A.G. (1986); “Ammonia inhibition of methanogenesis from cattle waste”; *Agric. Wastes* n° 17: 241–261.

Hashimoto A.G. (1987); “Effect of inoculum/substrate ratio on methane yield and production rate from straw.”; *Biological Wastes*, 28: 247-255.

Hassan M.A., Shirai Y., Kusubayashi N., Karim M.I., Nakanishi K., Hashimoto K. (1996): “Effect of Organic Acid Profiles during Anaerobic Treatment of Palm Oil Mill Effluent on the Production of Polyhydroxyalkanoates by *Rhodobacter sphaeroides*”; *Journal of Fermentation and Bioengineering*, vol. 82 n° 2.

Hawkes F.R., Dinsdale R., Hawkes D.L., Hussy I. (2002): “Sustainable fermentative hydrogen production: challenges for process optimization.”; *Int. J. Hydrogen Energy*, n° 27.

Hawkes F.R., I.Hussy, G.Kyazze, R.Dinsdale, D.L.Hawkes, (2007); “Continuous dark fermentative hydrogen production by mesophilic microflora: principles and progress.”; *International Journal of Hydrogen Energy*, n° 32.

Hayes T.D., Theis T.L. (1978); “The distribution of heavy metals in anaerobic digestion”; *J. Water Pollut. Control Fed.* n° 50: 61–69.

Hayward G., Lau I. (1989); “Toxicity of organic solvents to fatty acid forming bacteria.”; *Can. J. Chem. Eng.* n° 67:157–161.

Heipieper H.J., Weber F.J., Sikkema J., Kewelch H., de Bont J.A.M. (1994); “Mechanisms of resistance of whole cells to toxic organic solvents”; *Trends Biotechnol.* n° 12, 409–415.

Held C., Wellacher M., Robra K.H., Gubitz G.M., (2002); “Two-stage anaerobic fermentation of organic waste in CSTR and UFAF-reactors.”; *Bioresor. Technol.*, 81, 19-24.

Hendriksen, H.V., Ahring, B.K. (1991); “Effects of ammonia on growth and morphology of thermophilic hydrogen-oxidizing methanogenic bacteria .”; *FEMS Microb. Ecol.* n° 85: 241–246.

Hickey, R.F., Vanderwielen, J., Switzenbaum, M.S., 1989; “The effect of heavy metals on methane production and hydrogen and carbon monoxide levels during batch anaerobic sludge digestion.” *Water Res.* n° 23, 207–219.

Hilton B.L., Oleszkiewicz J.A. (1988); “Sulphide-induced inhibition of anaerobic digestion”; *J. Environ. Eng.* n° 114: 1377–1391.

Hobson P.N., (1991); “The treatment of agricultural wastes.”; In Wheatley, A. (ed.) *Anaerobic Digestion: A Waste Treatment Technology*. Elsevier Applied Science, London, 93-138.

Hwang J.-H., G.-C.Cha, T.-Y.Jeong, D.-J.Kim, A.Bhatnagar, B.Min, H.Song, J.-A.Choi, J.-H. Lee, D.-W.Jeong, H.-K.Chung, Y.T. Park, J.Choi, R.A.I. Abou-Shanab, S.E.Oh, B.H.Jeon (2009): “Effect of COD/SO₄²⁻ ratio and Fe(II) under the variable hydraulic retention time (HRT) on fermentative hydrogen production”; *Water Research*, n° 43.

Hwu C-S., Donlon B., Lettinga G., (1996); “Comparative toxicity of long-chain fatty acid to anaerobic sludges from various origins.”; *Water Sci. Technol.* 34 (5-6), 351-358.

Hwu C-S., Tseng S-K., Yuan C-Y., Kulik Z., Lettinga G., (1998); „Biosorption of long-chain fatty acids in UASB treatment process.”; *Water Res.* 32, 1571-1579.

Inanc B., Matsui S., Ide S. (1996): “Propionic acid accumulation and controlling factors in anaerobic treatment of carbohydrate: effects of H₂ and pH”; *Bioresource Technology*, n° 99.

Inanc B., Matsui S., Ide S. (1996); “Propionic acid accumulation and controlling factors in anaerobic treatment of carbohydrate: effects of H₂ and pH.”; *Water Science Technology* n° 34:317-325.

Isa M.H., Anderson G.K. (2005): “Molybdate inhibition of sulphate reduction in two-phase anaerobic digestion”; *Process Biochemistry*, n° 40.

Isa Z., Grusenmeyer S., Verstraete W. (1986); “Sulphate reduction relative to methane production in high-rate anaerobic digestion: technical aspects.”; *Appl. Environ. Microbiol.* n° 51: 572–579.

Jin P., Bhattacharya S.K., Williams C.J., Zhang H. (1998); “Effects of sulfide addition on copper inhibition in methanogenic systems.”; *Water Res.* n° 32: 977–988.

Kamm B., Kamm M., (2004a); “Principles of biorefineries”; *Appl. Microbiol. Biotechnol.*, n° 64, 137-145.

Kaparaju P., Rintala J. (2005); “Anaerobic digestion of potato tuber and its industrial by-products with pig manure”; *Resources Conservation & Recycling*, n° 43.

- Karim K., Hoffmann R., Klasson K.T., Al-Dahhan M.H. (2005): “Anaerobic digestion of animal waste: Effect of mode of mixing”; *Water Research*, n° 39.
- Kayhanian M. (1999); “Ammonia inhibition in high-solids biogasification: an overview and practical solutions”; *Environ. Technol.* n° 20: 355–365.
- Khanal S.K., W.-H.Chen, L.Li, S.Sung, (2004): “Biological hydrogen production: effects of pH and intermediate products”; *Int. J.of Hydrogen Energy*, n° 29.
- Kim I.S., Hwang M.H., Jang N.J., Hyun S.H., Lee S.T. (2004): “Effect of low pH on the activity of hydrogen utilizing methanogen in bio-hydrogen processes”; *International Journal of Hydrogen Energy*, n° 29.
- Kim J., Park C., Kim T.-H., Lee M., Kim S., Kim S.-W., Lee J., (2003); “ Effects of various pretreatments for enhanced anaerobic digestion with waste activated sludge.”; *J. Biosci. Bioeng.*, 95, 271-275.
- Kim J.K., Oh B.R., Chun Y.N., Kim S.W. (2006): “Effects of Temperature and Hydraulic Retention Time on Anaerobic Digestion of Food Waste”; *Journal of Bioscience and Bioengineering*, vol. 102, n° 4.
- Kim S.-H., (1995); “The removal of high strength ammonia in anaerobically treated egg and chicken processing wastewater by precipitation.”; *J.KSEE* 17, 615-623.
- Kim S.W., Park J.Y., Kim J.K., Cho J.H., Chun Y.N., Lee I.H., Lee J.S., Park J.S., Park D.-H., (2000); “Development of a modified three-stage methane production process using food wastes.”; *Appl. Biochem. Biotechnol.*, 84, 731-741.
- Kleerebezem R., Van Loosdrecht M.CM (2007): “Mixed culture biotechnology for bioenergy production”; *Current Opinion in Biotechnology*, n° 18.
- Koster I.W., Lettinga G. (1984); “The influence of ammonium-nitrogen on the specific activity of pelletized methanogenic sludge.”; *Agric. Wastes* n° 9: 215–216.
- Koster I.W., Rinzema A., De Vegt A.L., Lettinga G. (1986); “Sulfide inhibition of the methanogenic activity of granular sludge at various pH levels”; *Water Res.* n° 20:1561–1567.
- Koster I.W., Cramer A. (1987); “Inhibition of methanogenesis from acetate in granular sludge by long-chain fatty acids.”; *Appl. Environ. Microbiol.* n° 53, 2: 403–409.
- Koster I.W., Lettinga G. (1988); “Anaerobic digestion at extreme ammonia concentrations”; *Biol. Wastes* n° 25: 51–59.
- Koster I.W., (1989); “Toxicity in anaerobic digestion with emphasis on the effect of ammonia, sulphide and long-chain fatty acids on methanogenesis.”; *Ph.D. Thesis*, Wageningen agricultural University.
- Krishnanand Y., Maillacheruvu G.F., Parkin (1996); “Kinetics of growth, substrate utilization and sulphide toxicity for propionate, acetate, and hydrogen utilizers in anaerobic systems.”; *Water Env. Research*, 68, 1099-1106.

- Kroeker E.J., Schulte D.D., Sparling A.B., Lapp H.M. (1979); “Anaerobic treatment process stability.”; *J. Water Pollut. Control Fed.* n° 51: 718–727.
- Krylova N.I., Khabiboulline R.E., Naumova R.P., Nagel M.A., (1997); “The influence of ammonium and methods for removal during the anaerobic treatment of poultry manure.”; *J. Chem. Technol. Biotechnol.*, 70, 99-105.
- Laanbroek J.H., Geerlings H., Sitjtsma L., Veldkamp H. (1984); “Competition for sulphate and ethanol among *Desulfobacter Desulfobulbus* and *Desulfovibrio* species isolated from intertidal sediments.”; *Appl. Environ. Microbiol.* n° 128: 329–334.
- Lastela G., C.Testa, G.Cornacchia, M.Notornicola, F.Voltasio, V.K.Sharma (2002); “Anaerobic digestion of semi-solid organic waste: Biogas production and its purification.”; *Energy Conversion and Management*, n° 43.
- Lawrence A.W., McCarty P.L. (1965) ; “The role of sulfide in preventing heavy metal toxicity on anaerobic treatment.”; *J. Water Pollut. Control Fed.* n° 37: 392–405.
- Lawrence A.W., McCarty P.L. (1969) ; “Kinetics of methane fermentation in anaerobic treatment.”; *J. Water Pollut. Control Fed.* n° 41 (2, Part 2), R1-R17.
- Lay J.J., J.Y.Lee, T.Noike, (1999): “Feasibility of biological hydrogen production from organic fraction of municipal solid waste”; *Water Res.*, n° 33.
- Le Van T.D., Robinson J.A., Ralph J., Greening R.C., Smolenski W.J., Leedle J.A.Z., Schaefer D.M., (1998); “Assessment of reductive acetogenesis with indigenous ruminal bacterium populations and *Acetitomaculum ruminis*.”; *Appl. Environ. Microbiol.*, 64 (9), 3429-3436.
- Lee D.Y., Y.Y.Li, Y.K.Oh, M.S.Kim, T.Noike (2009): “Effect of iron concentration on continuous H₂ production using membrane bioreactor.”; *Int. J. Hydrogen Energy*, n° 34.
- Lema J.M., Omil, F., (2001); “Anaerobic treatment: a key technology for a sustainable management of wastes in Europe.”; *Water Sci. Technol.*, n° 44 (8), 133–140.
- Levin D.B., Pitt L., Love M., (2004); “Biohydrogen production: prospects and limitations to practical application.”; *Int. J. of Hydrogen Energy*, 29, 173-185.
- Lin C.Y., Chen C.C. (1999); “Effect of heavy metals on the methanogenic UASB granule.”; *Water Res.* n° 33: 409–416.
- Lin C.Y., H.P.Chen, (2006): “Sulphate effect on fermentative hydrogen production using anaerobic mixed microflora.”; *Int. J. Hydrogen Energy*, n° 31.
- Liu D., Zeng R.J., Angelidaki I. (2006): “Hydrogen and methane production from household solid waste in the two-stage fermentation process”; *Water Research*, n° 40.
- Madsen T., Rasmussen H.B., (1996); “A method for screening the potential toxicity of organic chemicals to methanogenic gas production.”; *Water Sci. Technol.* 33 (6), 213-220.

- Maekawa T., Liao C.-M., Feng X.-D., (1995); “Nitrogen and phosphorus removal from swine wastewater using intermittent aeration batch reactor followed by ammonium crystallization process.”; *Water Res.*, 29, 2643-2650.
- Martin A., Borja R., García I., Fiestas J.A., (1991); “Kinetics of methane production from olive mill wastewater.”; *Process Biochem.*, 26, 101-107.
- Martin A., Boda R., Chica A., (1993); “Kinetic study of an anaerobic fluidized bed system used for the purification of fermented olive mill wastewater.”; *Chemical Techn. and Biotechn.*, 56, 155-162.
- Massé D.I., Lu D., Masse L., Droste R.L. (2000): “Effect of antibiotics on psychrophilic anaerobic digestion of swine manure slurry in sequencing batch reactors”; *Bioresource Technology*, n° 75.
- Massé D.I., Masse L., Croteau F. (2003): “The effect of temperature fluctuations on psychrophilic anaerobic sequencing batch reactors treating swine manure”; *Bioresource Technology*, n° 89, 57-62.
- Mata-Alvarez J., Cecchi F., Pavan P., (1992); “Substrate utilization kinetic models in the semi-dry thermophilic anaerobic digestion of municipal solid wastes.”; *J. Envir. Sci. and Health*, 27 (7), 1967-1986.
- Mata-Alvarez J., Mtzviturtia A., Llabresluengo P., Cecchi F., (1993); “ Kinetic and performance study of a batch 2-phase anaerobic-digestion of fruit and vegetable wastes.”; *Biomass Bioenergy* 5 (6), 481-488.
- Mata-Alvarez J., Cecchi F. (1995); “Two-phase continuous anaerobic digestion of fruit and vegetable wastes.”; *Resources, Conservation and Recycling* n° 13, vol. 3-4:257-267.
- McCartney D.M., Oleszkiewicz J.A.(1993); “Competition between methanogens and sulphate reducers: effect of COD: sulphate ratio and acclimatization”; *Water Environ. Res.* n° 65: 655–664.
- McCarty P.L., McKinney R.(1961); “Salt toxicity in anaerobic digestion.”; *J. Water Pollut. Control Fed.* n° 33: 399–415.
- McCue T., Hoxworth S., Randall A.A. (2003); “Degradation of halogenated aliphatic compounds utilizing sequential anaerobic/aerobic treatment.”; *Water Sci. Technol.* n° 47,vol. 10: 79–84.
- McInerney M.J., (1988); “Anaerobic hydrolysis and fermentation of fats and proteins.”; In: Zehnder J.B. (Ed.) *Biology of Anaerobic Microorganisms*, Wiley, New York, 373-415.
- Misi S.N., C.F.Foster (2001); “Batch co-digestion of multi-component agro-wastes”; *Bioresource Technology*, n° 80.
- Mohanrao G.J., (1974); “Scientific aspects of cowdung digestion.”; *Khadi Gramodyog* 29 (7), 340-347.
- Moller H.B., Sommer S.G., Ahring B.K. (2004): “Methane productivity of manure, straw and solid fractions of manure”; *Biomass and Bioenergy*, n° 26.
- Mormile M.R., Suflita J.M. (1996); “The toxicity of selected gasoline components to glucose methanogenesis by aquifer microorganisms.”; *Anaerobe* n° 2, vol. 5: 299–303.

- Mosey F.E., Swanwick J.D., Hughes D.A. (1971); “Factors affecting the availability of heavy metals to inhibit anaerobic digestion.”; *Water Pollut. Control* n° 70: 668–679.
- Mosey F.E., Hughes D.A. (1975); “The toxicity of heavy metal ions to anaerobic digestion.”; *Water Pollut. Control* n° 74: 18–39.
- Mosey F.E., Fernandes X.A., (1989); “Patterns of hydrogen in biogas from the anaerobic digestion of milk-sugars.”; *Water Science and Technology* 21, 187-196.
- Nah I.W., Kang Y.W., Hwang K.Y., Song W.K., (2000); “Mechanical pretreatment of waste activated sludge for anaerobic digestion process.”; *Water Res.* 34, 2362-2368.
- Nallathambi V., (1997): “Anaerobic digestion of biomass for methane production: a review”; *Biomass and Bioenergy*, vol. 13 n° 1/2.
- Neves L., R.Oliveira, M.M.Alves (2004); “Influence of inoculum activity on bio-methanization of a kitchen waste under different waste/inoculum ratios.”; *Process Biochemistry*, n° 39.
- Nollet L., Demeyer D., Verstraete W., (1997); “Effect of 2-bromoethanesulfonic acid and *Peptostreptococcus productus* ATCC 35244 addition on stimulation of reductive acetogenesis in the ruminal ecosystem by selective inhibition of methanogenesis.”; *Appl. Environm. Microbiol.*, 63 (1), 194-200.
- Novak J.T., Carlson D.A., (1970); “The kinetics of anaerobic long chain fatty acid degradation.”; *J. Water Pollut. Control. Fed.* 42, 1932-1943.
- Nozhevnikova A.N., Lotsyurbenko O.R., Parshina S.N., (1999); “ Anaerobic manure treatment under extreme temperature conditions.”; *Water Sci. Techn.*, 40 (1), 215-221.
- O’Flaherty V., Colohan S., Mulkerrins D., Colleran E. (1999); “Effect of sulphate addition on volatile fatty acid and ethanol degradation in an anaerobic hybrid reactor - II: Microbial interactions and toxic effects.”; *Bioresour. Technol.* n° 68: 109–120.
- O’Flaherty V., Lens P., De Beer D., Colleran E. (1997); “Effect of feed composition and upflow velocity aggregate characteristics in anaerobic upflow reactors.”; *Appl. Microbiol. Biotechnol.* n° 47: 102–107.
- O’Rourke J.T., (1968); “Kinetics of Anaerobic Treatment at reduced temperatures.” *Ph.D. Dissertation*, Stanford University, Stanford, CA.
- Oh S.E., Van Ginkel S., Logan B.E., (2003); „The relative effectiveness of pH control and heat treatment for enhancing biohydrogen gas production. “; *Environm. Sci. Technol.*, 37 (22), 5186-5190.
- Okabe S., Nielsen P.H., Jones W.L., Characklis W.G. (1995); “Sulfide product inhibition of *Desulfovibrio desulfuricans* in batch and continuous cultures.”; *Water Res.* n° 29,2: 571–578.
- Okamoto M., Miyahara T., Mizuno O., Noike T., (2000); “Biological hydrogen potential of materials characteristic of the organic fraction of municipal solid wastes.”; *Water Science Technol.*, 41 (3), 25-32.

Oleszkiewicz J.A., Sharma V.K. (1990); "Stimulation and inhibition of anaerobic process by heavy metals. A review."; *Biol. Wastes* n° 31: 45– 67.

Omil F., Lens P., Hulshoff Pol L.W., Lettinga G. (1996); "Effect of upward velocity and sulphide concentration on volatile fatty acid degradation in a sulphidogenic granular sludge reactor."; *Process Biochem.* n° 31: 699–710.

Oude Elferink, S.J.W.H., Visser, A., Hulshoff Pol, L.W., Stams, A.J.M. (1994); "Sulphate reduction in methanogenic bioreactors."; *FEMS Microbiol. Rev.* n° 15: 119–136.

Palmisano A.C., Barlaz M.A., (1971); "Microbiology of solid waste."; In: Vreeland RH (Ed.) *The microbiology of extreme and unusual environments*, London, CRC Press, 72-104.

Palmowski, L., Muller, J., (1999); "Influence of the size reduction of organic waste on their anaerobic digestion."; In: Mata-Alvarez, J., Tilche, A., Cecchi, F. (Eds.), *Proceedings of the Second International Symposium on Anaerobic Digestion of Solid Wastes*, Barcelona, vol. 1. Gràfiques 92, 15±18 June, pp. 137±144.

Park C., Lee C., Kim S., Chen Y., Chase H.A. (2005): "Upgrading of Anaerobic Digestion by Incorporating Two Different Hydrolysis Processes"; *Journal of Bioscience and Bioengineering*, n°2.

Parkin G.F., Miller S.W.; "Response of methane fermentation to continuous addition of selected industrial toxicants."; In: *Proceedings of the 37th Purdue Industrial Waste Conference*, West Lafayette, Ind 1983.

Patel G.B., Roth L.A., (1977); "Effect of sodium chloride on growth and methane production of methanogens."; *Can. J. Microbiol.*, 23, 893-897.

Pavlostathis S.G., Gosset J.M., (1985); " Alkaline treatment of wheat straw for increasing anaerobic biodegradability."; *Biotechnology and Bioengineering*, 27: 334-344.

Pfeffer J.T., (1974); "Temperature effects on anaerobic fermentation of domestic refuse."; *Biotechn. Bioeng.*, 16, 771-787.

Piccinini S. (2000); " Interessanti prospettive per il biogas da liquami zootecnici"; Ed. *L'Informatore Agrario* n° 13.

Piccinini S., Centemero M., Codato F., Valentini F., Rustichelli G., Maniero D., Loro F., Ceron A., Chiesa G., Marchiò G., Brondello L., Rossi L., Favonio E., (2006): "L'integrazione tra la digestione anaerobica e il compostaggio"; Comitato Tecnico – GDL Digestione Anaerobica, realizzato in collaborazione con C.R.P.A. e CIC.

Playne M.J., Smith B.R. (1983); "Toxicity of organic extraction reagents to anaerobic bacteria."; *Biotechnol. Bioeng* n° 25: 1251–1265.

Poggi-Varaldo H.M., Rodriguez-Vazquez R., Fernandez-Villagomez G., Esparza-García F. (1997): "Inhibition of mesophilic solid-substrate anaerobic digestion by ammonia nitrogen"; *Appl. Microbiol. Biotechnol.*, n° 47.

Pohland E. G., Gosh S. (1971); “Developments in anaerobic stabilization of organic wastes. The two-phase concept.”; *Environ. Lett* n° 1: 255-266.

Renard P., Bouillon C., Neveau H., Nyns E.-J. (1993); “Toxicity of a mixture of polychlorinated organic compounds towards an unacclimated methanogenic consortium.”; *Biotechnol. Lett.* n° 15, vol. 2: 195–200.

Rinzema A. (1988); “Anaerobic treatment of wastewater with high concentrations of lipids or sulphate.” *Ph.D. thesis*, Wageningen Agricultural University, Wageningen, The Netherlands.

Rinzema A., Lettinga, G.(1988); “The effect of sulphide on the anaerobic degradation of propionate.”; *Environ. Technol. Lett.* n° 9, 83–88.

Rinzema A., Van Lier J., Lettinga G., (1988); “Sodium inhibition of aceticlastic methanogens in granular sludge from a UASB reactor.”; *Enzyme Microbiol. Technol.*, 10, 24-32.

Robbins J.E., Gerhard S.A., Kappel T.J. (1989); “Effects of ammonia in anaerobic digestion and an example of digester performance from cattle manure protein mixtures.”; *Biol. Wastes* n° 27: 1–14.

Ronchetti M., Iacobazzi A.: “Celle a combustibile: stato di sviluppo e prospettive della tecnologia”; ENEA (2002).

Roy F., Albagnac G., Samain E., (1985); “Influence of calcium addition on growth of highly purified syntrophic cultures degrading long-chain fatty acids.”; *Appl. Environ. Microbiol.* 56, 719-723.

Saddoud A., Sayadi S. (2007): “Application of acidogenic fixed-bed reactor prior to anaerobic membrane bioreactor for sustainable slaughterhouse wastewater treatment”; *Journal of Hazardous Materials*, n° 149.

Safley L.M., Weterman P.W., (1994); “Low temperature digestion of dairy and swine manure.”; *Bioresource Technol.* 47, 165-171.

Salminen E.A., Rintala J.A., (1999); “Anaerobic digestion of poultry slaughtering wastes.”; *Environ. Technol.* 20, 21-28.

Salminen E.A., Rintala J.A., Lokshina L., Vavilin V.A. (2000); “Anaerobic batch degradation of solid poultry slaughterhouse waste.”, *Water Sci. Technol.* 41 (3), 33-41.

Salminen E.A., Rintala J.A., (2002_a); “Anaerobic digestion of solid poultry slaughterhouse waste – a review.”; *Bioresource Technology* 83, 13-26.

Salminen E.A., Rintala J.A., (2002_b); “Semi-continuous anaerobic digestion of solid poultry slaughterhouse waste: effect of hydraulic retention time and loading.”; *Water Research* 36, 3175-3182.

Sankvist A., Hagelberg M., Mathisen B., (1984); “Effect of antibiotics and chemotherapeutics on biogas production from piggery waste.”; *Bioenergy*, 84, 422-426.

Scherer P., Sahn H. (1981); “Influence of sulfur-containing-compounds on the growth of *Methanosarcina barkeri* in a defined medium” ; *Eur. J. Appl. Microbiol. Biotechnol.* n° 12: 28–35.

Schieder D., P.Quicker, R.Shneider, H.Winter, S.Prechtl, M.Faulstich (2003); "Microbiological removal of hydrogen sulphide from biogas by means of a separate biofilter system: Experience with technical operation."; *Water Science and Technology*, n° 48.

Sharma D.K., (2002); "Studies on availability and utilization of onion storage waste in a rural habitat."; *Ph.D. Thesis*, Centre of Rural Development and Technology, Indian Institute of Technology, Delhi, India.

Sharma SK, Mishra IM, Sharma MP, Saini JS., (1988); "Effect of particle size on biogas generation from biomass residues."; *Biomass*, 17:251–63.

Shen C.F., Kosaric N., Blaszczyk R. (1993) ; "The effect of selected heavy metals (Ni, Co, and Fe) on anaerobic granules and their extracellular polymeric substances (EPS)" ; *Water Res.* n° 27: 25–33.

Shin H.S., Kwon J.C. (1998); "Degradation and interaction between organic concentrations and toxicity of 2,4,6-trichlorophenol in anaerobic system"; *Biotechnol. Tech.* n° 12,1: 39–43.

Shin H.S., Oh, S.E., Lee, C.Y. (1997); "Influence of sulfur compounds and heavy metals on the methanization of tannery wastewater."; *Water Sci. Technol.* n° 35, vol. 8: 239–245.

Siegert I., Banks C. (2005): "The effect of volatile fatty acid additions on the anaerobic digestion of cellulose and glucose in batch reactors"; *Process Biochemistry*, n° 40.

Sierra-Alvarez R., Lettinga G. (1991); "The effect of aromatic structure on the inhibition of aceticlastic methanogenesis in granular sludge."; *Appl. Microbiol. Biotechnol.* n° 34: 544–550.

Sikkema J., De Bont J.A.M., Poolman B. (1994); "Interactions of cyclic hydrocarbons with biological membranes."; *J. Biol. Chem.* n° 26: 8022–8028.

Silver S., Phung L.T. (1996); "Bacterial heavy metal resistance: new surprises."; *Annu. Rev. Microbiol.* n° 50: 753–789.

Singh R., Jain M.K., Tauro P., (1983); "Pre-digestion to improve production of biogas from cattle waste."; *Agric. Wastes*, 6, 167-174.

Sonesson, U., Bjo" rklund, A., Carlsson, M., Dalemo, M., (2000); "Environmental and economic analysis of management systems for biodegradable waste."; *Resour. Conserv. Recycling* n° 28, 29–53.

Song Z., Williams C.J., Edyvean R.G.J., (2001); "Coagulation and anaerobic digestion of tannery wastewater."; *Process Saf. Environ. Prot.*, 79, 23-28.

Sossa K., Alarcòn M., Aspè E., H. Urrutia (2004): "Effect of ammonia inhibition on the methanogenic activity of methylaminotrophic methane producing *Archaea* enriched biofilm"; *Anaerobe*, n° 10.

Soto M., Mendez R., Lema J.M. (1991); "Biodegradability and toxicity in the anaerobic treatment of fish canning wastewaters."; *Environ. Technol.* n° 12: 669–677.

- Soto M., Mendez R., Lema J.M. (1993); “Methanogenic and nonmethanogenic activity tests: theoretical basis and experimental setup”; *Water Res.* n° 27: 1361–1376.
- Soubes M., Mux1 L., Fernandez A., Tarlera S., Queirolo M. (1994); “Inhibition of methanogenesis from acetate by Cr^{3+} and ammonia.”; *Biotechnol. Lett.* n° 16: 195–200.
- Speece R.; “Anaerobic biotechnology for industrial wastewater.”; *Archae press*, Nashville, Tennessee 1996.
- Sprott G.D., Patel G.B. (1986); “Ammonia toxicity in pure cultures of methanogenic bacteria.”; *System. Appl. Microbiol.* n° 7, 358–363.
- Stenstrom M., Ng. A., Bhunia P., Abramson S., (1983); „Anaerobic digestion of municipal solid waste.”; *J. Environ. Eng.*, 109, 1148-1158.
- Stergar V., Konc an-Zagorc J., Gotvanj-Zgajnar A. (2003); “Laboratory scale and pilot plant study on treatment of toxic wastewater from the petrochemical industry by UASB reactors.”; *Water Sci. Technol.* n° 48, vol. 8: 97–102.
- Sterling M.C.Jr., Lacey R.E., Engler C.R., Ricke S.C. (2006): “Effects of ammonia nitrogen on H_2 and CH_4 production during anaerobic digestion of dairy cattle manure”; *Bioresource Technology*, n° 77.
- Sterritt R.M., Lester J.N.; “Interaction of heavy metals with bacteria.”; *Sci. Total Environ.* (1980) n° 14, vol.1: 5–17.
- Strik D.P.B.T.B., Domnanovich A.M., Holubar P. (2001): “A pH-based control of ammonia in biogas during anaerobic digestion of artificial pig manure and maize silage”; *Process Biochemistry*, n° 41.
- Stuckey D.C., Owen W.F., McCarty P.L. (1980); “Anaerobic toxicity evaluation by batch and semi-continuous assays.”; *J. Water Pollut. Control Fed.* n° 52: 720–729.
- Stucki G., Hanselman K.W., Hurzeler A. (1993); “Biological sulphuric acid transformation: reactor design and process optimization.”; *Biotechnol. Bioeng.* n° 41: 303–315.
- Summers A.O. (1986); “Organization, expression and evolution of genes for mercury resistance.”; *Annu. Rev. Microbiol.* n° 40: 607–634.
- Sundrarajan R., Jayanthi A., Elango R., (1997); “Anaerobic digestion of organic fractions of municipal solid waste and domestic sewage of Coimbatore.”; *Indian J. Environ. Health* 39 (3), 193-196.
- Sung S., Liu T. (2003): “Ammonia inhibition on thermophilic anaerobic digestion”; *Chemosphere*, n° 53.
- Swanwick J.D., Shurben D.G., Jackson S. (1969); “A survey of the performance of sewage sludge digesters in Great Britain.”; *J. Water Pollut. Control Fed.* n° 68: 639–653.
- Takashima M., Speece R.E. (1989); “Mineral nutrient requirements for high rate methane fermentation of acetate at low SRT.”; *Res. J. Water Pollut. Control Fed.* n° 61,11–12: 1645–1650.

- Takizawa N., Umetsu K., Takahata H., Hoshiba H., (1994); “Temperature effects on continuously expanding anaerobic digester with dairy manure slurry.”; Res. Bull. Obihiro Univ., *Natural Sci.*, 19 (1), 31-36.
- Tanaka S., Lee Y. (1997): “Control of sulphate reduction by molybdate in anaerobic digestion”; *Bioresource Technology*, n° 52.
- Tiehm A., Nickel K., Zellhorn M., Neis U., (2001); „Ultrasonic waste activated sludge disintegration for improving anaerobic stabilization.“; *Water Res.*, 35, 2003-2009.
- Ting C.H, Lee D.J. (2007): “Production of hydrogen and methane from wastewater sludge using anaerobic fermentation”; *International Journal of Hydrogen Energy*, n° 32.
- Uberoi V., Bhattacharya S.K., (1997a); “Toxicity and degradability of nitrophenols in anaerobic systems.”; *Water Environ. Res.* 69, 146-156.
- Valdez-Vazquez I., Rios-Leal E., Esparza-García F., Cecchi F., Poggi-Varaldo H.M. (2005); “Semicontinuous solid substrate anaerobic reactors for H₂ production from organic waste: Mesophilic versus thermophilic regime.”; *Int. J. of Hydrogen Energy*, n° 30.
- Vallee B.L., Ulner D.D.(1972); “Biochemical effects of mercury, cadmium, and lead”; *Annu. Rev. Biochem.* n° 41: 91–128.
- Van Beelen P., van Vlaardingen P.V. (1994); “Toxic effects of pollutants on the mineralization of 4-chlorophenol and benzoate in methanogenic river sediment.”; *Environ. Toxicol. Chem.* n° 13, vol. 7: 1051–1060.
- Van Velsen A.F.M. (1979); “Adaptation of methanogenic sludge to high ammonia-nitrogen concentrations.”; *Water Res.* n° 13: 995–999.
- Van Velsen A.F.M., Lettinga G., Den Ottelander D., (1979); “Anaerobic digestion of piggery waste. 3.Influence of temperature.”; *Neth. J. Agric. Sci.*, 27, 255-267.
- Vavilin V.A., Vasiliev V.B., Rytov S.V. (1994): “Modelling of gas pressure effects on anaerobic digestion”; *Bioresource Technology*, n° 52.
- Visser A., Nozhevnikova A.N., Lettinga G. (1993); “Sulphide inhibition of methanogenic activity at various pH levels at 55 °C”; *J. Chem. Tech. Biotechnol.* n° 57: 9–14.
- Vogels G.D., Kejtjens J.T., van der Drift C.; “Biochemistry of methane production.”; In: Zehnder, A.J.B. (Ed.), *Biology of Anaerobic Microorganisms*. John Wiley and Sons, NY(1988) : 988.
- Wang L., Zhou Q., Li F.T., (2006); “Avoiding propionic acid accumulation in the anaerobic process for biohydrogen production.”; *Biomass and Bioenergy* 30, 177-182.
- Wang Q., Kuninobu M., Kakimoto K., Ogawa H.I., and Kato Y., (1999); “Upgrading of anaerobic digestion of waste activated sludge by ultrasonic pretreatment.”; *Bioresor. Technol.*, 68: 309-313.
- Wang Q., Kuninobu M., Ogawa H.I., Kato Y. (1999): “Degradation of volatile fatty acids in highly efficient anaerobic digestion”; *Biomass and Bioenergy*, n° 16.

Wang Y., Y.Zhang, L.Meng, J.Wang, W.Zhang (2009); “Hydrogen-methane production from swine manure: Effect of pretreatment and VFAs accumulation on gas yield.”; *Biomass and Bioenergy*, n° 33.

Watkiss P., Hill N., (2002); “The feasibility, costs and markets for hydrogen production.”; *Rapporto finale per British Energy Aeatchnology*, september.

Whitmore, T.N., Lloyd, D., Jones, G., Williams, T.N., (1987); “Hydrogen-dependent control of the continuous anaerobic digestion process.”; *Appl. Microbiol. Biotechnol.* 26, 383–388.

Wiegant W.M., Zeeman G. (1986); “The mechanism of ammonia inhibition in the thermophilic digestion of livestock wastes”; *Agric. Wastes* n° 16: 243–253.

Wodzinski R.J., Himes M.E., Gennaro R.N., (1993); “Effect of addition of Fe³⁺ and Co²⁺ to dairy manure on methane production.” Abstr. *Annu. Meet. Am. Soc. Microbiol.*, 83 Meeting, p 243.

Wong M.H., Cheung Y.H. (1995) ; “Gas production and digestion efficiency of sewage sludge containing elevated toxic metals.”; *Bioresour. Technol.* n° 54: 261–268

Wood J.M., Wang H.K. (1983); “Microbial resistance to heavy metals.”; *Environ. Sci. Technol.* n° 17: 582–590.

Yadvika, Santosh, T.R.Sreekrishnan, Sangeeta Kohli, Vineet Rana (2004): “Enhancement of biogas production from solid substrates using different techniques – a review”; *Bioresource Technology*, n° 95.

Yang J., Speece R.E. (1986); “The effects of chloroform toxicity on methane fermentation.”; *Water Res.* n° 20: 1273–1279.

Zayed G., Winter J. (2000); “Inhibition of methane production fro whey by heavy metals-protective effect of sulphide.”; *Appl. Microbiol. Biotechnol.* n° 53: 726–731.

Zeeman G., Wiegant W.M., Koster-Treffers M.E., Lettinga G. (1985); “The influence of the total ammonia concentration on the thermophilic digestion of cow manure.”; *Agric. Wastes* n° 14: 19–35.

Zeeman G., Sutter K., Koster V.T., Koster M., Wellinger A. (1988); “Psychrophilic digestion of dairy cattle and pig manure: start-up procedures of batch, fed-batch and CSTR-type digesters.”; *Biol. Wastes*, 26, 15-31.

Zennaki B.Z., Zadi A., Lamini H., Aubinear M., Boulif M., (1996); “Methane Fermentation of cattle manure: effects of HRT, temperature & substrate concentration.”; *Tropicultural* 14 (4), 134-140.

Zhang Y., Zhang Z., Suzuki K., Maekawa T. (2003): “Uptake and mass balance of trace metals for methane producing bacteria”; *Biomass and Bioenergy*, n° 25.

Zhang Y., G.Liu, J.Shen, (2005): “Hydrogen production in batch culture of mixed bacteria with sucrose under different iron concentrations”; *Int. J. Hydrogen Energy*, n° 30.

Zinder S.H., (1984); "Microbiology of anaerobic conversion of organic wastes to methane: recent developments."; *ASM News* 50, 294-298.

Zinder S.H., (1993); "Physiological ecology of methanogens."; In *Methanogenesis: Ecology, Physiology, Biochemistry, and Genetics*, 128-206 J.G. Ferri ed., Chapman and Hall, New York.

Zurawski D., M.Meyer, R.Stegmann (2005); "Fermentative production of biohydrogen from biowaste using digested sewage sludge as inoculum"; *Proceedings Sardinia 2005, tenth International Waste Management and Landfill Symposium*.