

# Serge Guiot

## List of Publications by Year in descending order

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136  
papers

5,860  
citations

81743

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70  
g-index

138  
all docs

138  
docs citations

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times ranked

5232  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Layered structure of bacterial aggregates produced in an upflow anaerobic sludge bed and filter reactor. <i>Applied and Environmental Microbiology</i> , 1990, 56, 1598-1607.   | 1.4 | 353       |
| 2  | Liquid-to-Gas Mass Transfer in Anaerobic Processes: Inevitable Transfer Limitations of Methane and Hydrogen in the Biomethanation Process. <i>Applied and Environmental Microbiology</i> , 1990, 56, 1636-1644.   | 1.4 | 239       |
| 3  | High rate membrane-less microbial electrolysis cell for continuous hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 672-677.  | 3.8 | 204       |
| 4  | Biomethane production from starch and lignocellulosic crops: a comparative review. <i>Biofuels, Bioproducts and Biorefining</i> , 2010, 4, 447-458.   | 1.9 | 190       |
| 5  | Integration of microalgae cultivation with industrial waste remediation for biofuel and bioenergy production: opportunities and limitations. <i>Photosynthesis Research</i> , 2011, 109, 231-247.   | 1.6 | 186       |
| 6  | Assessment of the bioenergy and bioremediation potentials of the microalga <i>Scenedesmus</i> sp. AMDD cultivated in municipal wastewater effluent in batch and continuous mode. <i>Algal Research</i> , 2012, 1, 155-165.  | 2.4 | 146       |
| 7  | A Structured Model of the Anaerobic Granule Consortium. <i>Water Science and Technology</i> , 1992, 25, 1-10.   | 1.2 | 142       |
| 8  | Potential of Wastewater-Treating Anaerobic Granules for Biomethanation of Synthesis Gas. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2006-2012.   | 4.6 | 136       |
| 9  | Genomic Analysis of Carbon Monoxide Utilization and Butanol Production by <i>Clostridium carboxidivorans</i> Strain P7T. <i>PLoS ONE</i> , 2010, 5, e13033.   | 1.1 | 134       |
| 10 | Impact of mechanical, chemical and enzymatic pre-treatments on the methane yield from the anaerobic digestion of switchgrass. <i>Biomass and Bioenergy</i> , 2012, 36, 1-11.  | 2.9 | 129       |
| 11 | The influence of operational conditions on the performance of a microbial fuel cell seeded with mesophilic anaerobic sludge. <i>Biochemical Engineering Journal</i> , 2010, 51, 132-139.  | 1.8 | 125       |
| 12 | The effect of real-time external resistance optimization on microbial fuel cell performance. <i>Water Research</i> , 2011, 45, 1571-1578.   | 5.3 | 124       |
| 13 | Biocatalyzed hydrogen production in a continuous flow microbial fuel cell with a gas phase cathode. <i>Journal of Power Sources</i> , 2008, 182, 291-297.   | 4.0 | 112       |
| 14 | Electrolysis-enhanced anaerobic digestion of wastewater. <i>Bioresource Technology</i> , 2011, 102, 5685-5691.  | 4.8 | 111       |
| 15 | Screening microalgae strains for their productivity in methane following anaerobic digestion. <i>Applied Energy</i> , 2013, 108, 100-107.   | 5.1 | 111       |
| 16 | Differentiation of <i>Methanosaeta concilii</i> and <i>Methanosarcina barkeri</i> in Anaerobic Mesophilic Granular Sludge by Fluorescent In Situ Hybridization and Confocal Scanning Laser Microscopy. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2222-2229. | 1.4 | 110       |
| 17 | Application of iron-based cathode catalysts in a microbial fuel cell. <i>Electrochimica Acta</i> , 2011, 56, 1505-1511.   | 2.6 | 109       |
| 18 | Microbial electrolysis cell scale-up for combined wastewater treatment and hydrogen production. <i>Bioresource Technology</i> , 2013, 130, 584-591.   | 4.8 | 102       |

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|----|--|-----|-----------|
| 19 | Acidogenic digestion of food waste in a thermophilic leach bed reactor: Effect of pH and leachate recirculation rate on hydrolysis and volatile fatty acid production. <i>Bioresource Technology</i> , 2017, 245, 1-9. | 4.8 | 98        |
| 20 | Animal digestive strategies versus anaerobic digestion bioprocesses for biogas production from lignocellulosic biomass. <i>Reviews in Environmental Science and Biotechnology</i> , 2011, 10, 43-62.                   | 3.9 | 97        |
| 21 | A Comparison of Air and Hydrogen Peroxide Oxygenated Microbial Fuel Cell Reactors. <i>Biotechnology Progress</i> , 2006, 22, 241-246.  | 1.3 | 96        |
| 22 | Hydrogen Production from Glycerol in a Membraneless Microbial Electrolysis Cell. <i>Energy &amp; Fuels</i> , 2009, 23, 4612-4618.  | 2.5 | 89        |
| 23 | Performance of an upflow anaerobic reactor combining a sludge blanket and a filter treating sugar waste. <i>Biotechnology and Bioengineering</i> , 1985, 27, 800-806.  | 1.7 | 85        |
| 24 | Solubility of pentachlorophenol in aqueous solutions: The pH effect. <i>Water Research</i> , 1995, 29, 131-136.  | 5.3 | 85        |
| 25 | Biodegradation of gasoline by gellan gum-encapsulated bacterial cells. <i>Biotechnology and Bioengineering</i> , 2002, 80, 175-184.  | 1.7 | 80        |
| 26 | Effects of surfactant and temperature on biotransformation kinetics of anthracene and pyrene. <i>Chemosphere</i> , 2005, 61, 1042-1050.  | 4.2 | 77        |
| 27 | Coupled anaerobic-aerobic treatment of whey wastewater in a sequencing batch reactor: proof of concept. <i>Water Science and Technology</i> , 2007, 55, 201-208.   | 1.2 | 67        |
| 28 | Mesophilic, thermophilic and hyperthermophilic acidogenic fermentation of food waste in batch: Effect of inoculum source. <i>Waste Management</i> , 2019, 87, 279-287.   | 3.7 | 55        |
| 29 | Enhanced Biodegradation of Petroleum Hydrocarbons in Contaminated Soil. <i>Bioremediation Journal</i> , 2003, 7, 37-51.  | 1.0 | 54        |
| 30 | Long-term impact of dissolved O <sub>2</sub> on the activity of anaerobic granules. , 2000, 49, 611-620.   |     | 53        |
| 31 | Biodegradation of gasoline and BTEX in a microaerophilic biobarrier. <i>Biodegradation</i> , 1999, 10, 341-352.  | 1.5 | 52        |
| 32 | Enhanced selection of an anaerobic pentachlorophenol-degrading consortium. <i>Biotechnology and Bioengineering</i> , 2001, 73, 476-483.  | 1.7 | 50        |
| 33 | Performances of a full-scale novel multiplate anaerobic reactor treating cheese whey effluent. <i>Biotechnology and Bioengineering</i> , 1995, 45, 398-405.  | 1.7 | 48        |
| 34 | Degradation of trichloroethylene in a coupled anaerobic-aerobic bioreactor: Modeling and experiment. <i>Biochemical Engineering Journal</i> , 2005, 26, 72-81.   | 1.8 | 46        |
| 35 | Direct Interspecies Electron Transfer in Anaerobic Digestion: A Review. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 151, 101-115.   | 0.6 | 46        |
| 36 | Kinetics of biodegradation of gasoline and its hydrocarbon constituents. <i>Applied Microbiology and Biotechnology</i> , 1998, 49, 475-481.  | 1.7 | 45        |

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|----|---|-----|-----------|
| 37 | Biodegradation of Pentachlorophenol in a Continuous Anaerobic Reactor Augmented with <i>Desulfitobacterium frappieri</i> PCP-1. Applied and Environmental Microbiology, 1999, 65, 4357-4362.                              | 1.4 | 44        |
| 38 | Effects of bioaugmentation strategies in UASB reactors with a methanogenic consortium for removal of phenolic compounds. Biotechnology and Bioengineering, 2000, 67, 417-423.   | 1.7 | 43        |
| 39 | Production of size-controlled gellan gum microbeads encapsulating gasoline-degrading bacteria. Enzyme and Microbial Technology, 2002, 30, 10-18.  | 1.6 | 43        |
| 40 | Electrochemical characterization of anodic biofilm development in a microbial fuel cell. Journal of Applied Electrochemistry, 2013, 43, 533-540.  | 1.5 | 43        |
| 41 | Acidic and thermal pre-treatments for anaerobic digestion inoculum to improve hydrogen and volatile fatty acid production using xylose as the substrate. Renewable Energy, 2020, 145, 1388-1398.                          | 4.3 | 42        |
| 42 | Combining photolysis and bioprocesses for mineralization of high molecular weight polyacrylamides. Biodegradation, 2002, 13, 221-227.   | 1.5 | 40        |
| 43 | Application of multi-wavelength fluorometry for on-line monitoring of an anaerobic digestion process. Water Research, 2004, 38, 3287-3296.  | 5.3 | 40        |
| 44 | Anaerobic digestion model No. 1-based distributed parameter model of an anaerobic reactor: II. Model validation. Bioresource Technology, 2008, 99, 3676-3684.   | 4.8 | 40        |
| 45 | Biomethanation of Syngas Using Anaerobic Sludge: Shift in the Catabolic Routes with the CO Partial Pressure Increase. Frontiers in Microbiology, 2016, 7, 1188.   | 1.5 | 40        |
| 46 | The treatment of cheese whey wastewater by sequential anaerobic and aerobic steps in a single digester at pilot scale. Bioresource Technology, 2009, 100, 4156-4163.  | 4.8 | 39        |
| 47 | Hydrogen monitoring in anaerobic sludge bed reactors at various hydraulic regimes and loading rates. Water Environment Research, 1993, 65, 276-280.   | 1.3 | 37        |
| 48 | DEGRADATION OF AROCLOR 1242 IN A SINGLE-STAGE COUPLED ANAEROBIC/AEROBIC BIOREACTOR. Water Research, 2001, 35, 4323-4330.  | 5.3 | 37        |
| 49 | Optimizing the electrode size and arrangement in a microbial electrolysis cell. Bioresource Technology, 2011, 102, 9593-9598.   | 4.8 | 37        |
| 50 | Influence of the starting microbial nucleus type on the anaerobic granulation dynamics. Applied Microbiology and Biotechnology, 1997, 47, 189-194.  | 1.7 | 33        |
| 51 | Long-term impact of dissolved O <sub>2</sub> on the activity of anaerobic granules. , 1996, 49, 611.  |     | 33        |
| 52 | Fate of explosives and their metabolites in bioslurrytreatment processes. Biodegradation, 1998, 8, 339-347.   | 1.5 | 32        |
| 53 | Performance and biomass retention of an upflow anaerobic reactor combining a sludge blanket and a filter. Biotechnology Letters, 1984, 6, 161-164.  | 1.1 | 31        |
| 54 | Enhanced Biodegradation and Fate of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX) and Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX) in Anaerobic Soil Slurry Bioprocess. Bioremediation Journal, 2000, 4, 27-39. | 1.0 | 30        |

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|----|---|-----|-----------|
| 55 | Thermophilic adaptation of a mesophilic anaerobic sludge for food waste treatment. <i>Journal of Environmental Management</i> , 2008, 88, 517-525.  | 3.8 | 30        |
| 56 | Hydrothermal post-treatment of digestate to maximize the methane yield from the anaerobic digestion of microalgae. <i>Waste Management</i> , 2018, 71, 683-688.                                       | 3.7 | 29        |
| 57 | Impact of liquid-to-gas hydrogen mass transfer on substrate conversion efficiency of an upflow anaerobic sludge bed and filter reactor. <i>Enzyme and Microbial Technology</i> , 1995, 17, 1080-1086. | 1.6 | 28        |
| 58 | Electricity generation from carbon monoxide in a single chamber microbial fuel cell. <i>Enzyme and Microbial Technology</i> , 2010, 46, 450-455.  | 1.6 | 28        |
| 59 | Performance of a <i>Carboxydotherrmus hydrogenoformans</i> -immobilizing membrane reactor for syngas upgrading into hydrogen. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2167-2175.  | 3.8 | 28        |
| 60 | Assessment of macroenergetic parameters for an anaerobic upflow biomass bed and filter (UBF) reactor. <i>Biotechnology and Bioengineering</i> , 1989, 34, 1277-1288.                                  | 1.7 | 27        |
| 61 | Effects of oxygenation and upflow liquid velocity on a coupled anaerobic/aerobic reactor system. <i>Water Research</i> , 1999, 33, 2855-2863.   | 5.3 | 27        |
| 62 | Detection of intermediate metabolites of benzene biodegradation under microaerophilic conditions. <i>Biodegradation</i> , 2001, 12, 379-391.  | 1.5 | 27        |
| 63 | Liming impact on granules activity of the multiplate anaerobic reactor (MPAR) treating whey permeate. <i>Bioprocess and Biosystems Engineering</i> , 1995, 12, 47-53.                                 | 0.5 | 26        |
| 64 | Evaluating limiting steps of anaerobic degradation of food waste based on methane production tests. <i>Water Science and Technology</i> , 2008, 57, 419-422.  | 1.2 | 25        |
| 65 | Anaerobic co-digestion of dairy manure with mulched switchgrass for improvement of the methane yield. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 341-349.                               | 1.7 | 25        |
| 66 | Characterization of the protein fraction of the extracellular polymeric substances of three anaerobic granular sludges. <i>AMB Express</i> , 2019, 9, 23.   | 1.4 | 25        |
| 67 | Modeling and analysis of layered stationary anaerobic granular biofilms. , 1997, 54, 122-130.   |     | 24        |
| 68 | Microstructure of Anaerobic Granules Bioaugmented with <i>Desulfitobacterium frappieri</i> PCP-1. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4035-4043.                                | 1.4 | 24        |
| 69 | Transport of gellan gum microbeads through sand: an experimental evaluation for encapsulated cell bioaugmentation. <i>Journal of Environmental Management</i> , 2003, 69, 249-259.                    | 3.8 | 24        |
| 70 | In-storage psychrophilic anaerobic digestion of swine manure: Acclimation of the microbial community. <i>Biomass and Bioenergy</i> , 2011, 35, 3719-3726.   | 2.9 | 24        |
| 71 | Influence of synthetic and natural polymers on the anaerobic granulation process. <i>Water Science and Technology</i> , 1998, 38, 341-347.  | 1.2 | 24        |
| 72 | Acidogenic fermentation of <i>Scenedesmus</i> sp.-AMDD: Comparison of volatile fatty acids yields between mesophilic and thermophilic conditions. <i>Bioresource Technology</i> , 2016, 200, 624-630. | 4.8 | 23        |

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|----|--|-----|-----------|
| 73 | Electrolytic Methanogenic~Methanotrophic Coupling for Tetrachloroethylene Bioremediation: Proof of Concept. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3011-3017.                           | 4.6 | 22        |
| 74 | Specific inhibitors for identifying pathways for methane production from carbon monoxide by a nonadapted anaerobic mixed culture. <i>Canadian Journal of Microbiology</i> , 2014, 60, 407-415.             | 0.8 | 22        |
| 75 | Thermodynamic evidence of trophic microniches in methanogenic granular sludge-bed reactors. <i>Applied Microbiology and Biotechnology</i> , 1990, 33, 88-92.   | 1.7 | 21        |
| 76 | Ecotoxicological Evaluation of a Bench-Scale Bioslurry Treating Explosives-Spiked Soil. <i>Bioremediation Journal</i> , 1999, 3, 233-246.  | 1.0 | 21        |
| 77 | Trichloroethylene Degradation in a Coupled Anaerobic/Aerobic Reactor Oxygenated Using Hydrogen Peroxide. <i>Environmental Science &amp; Technology</i> , 2003, 37, 5823-5828.                              | 4.6 | 21        |
| 78 | Activated sludge encapsulation in gellan gum microbeads for gasoline biodegradation. <i>Bioprocess and Biosystems Engineering</i> , 2004, 26, 197-204.   | 1.7 | 21        |
| 79 | Electricity generation from carbon monoxide and syngas in a microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 827-836.  | 1.7 | 21        |
| 80 | Performance of Carboxydotherrnus hydrogenoformans in a gas-lift reactor for syngas upgrading into hydrogen. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2543-2548.                         | 3.8 | 21        |
| 81 | Kinetics of benzene biotransformation under microaerophilic and oxygen-limited conditions. <i>Biotechnology and Bioengineering</i> , 2002, 79, 347-355.  | 1.7 | 20        |
| 82 | Methane production from the microalga <i>Scenedesmus</i> sp. AMDD in a continuous anaerobic reactor. <i>Algal Research</i> , 2013, 2, 394-400.   | 2.4 | 20        |
| 83 | Dynamic modelling of the population distribution in the anaerobic granular biofilm. <i>Water Science and Technology</i> , 1994, 30, 63-73.   | 1.2 | 20        |
| 84 | Methanotroph and methanogen coupling in granular biofilm under O <sub>2</sub> -limited conditions. <i>Biotechnology Letters</i> , 1996, 18, 495-500.   | 1.1 | 19        |
| 85 | ADM1 application for tuning and performance analysis of a multi-model observer-based estimator. <i>Water Science and Technology</i> , 2006, 54, 93-100.  | 1.2 | 19        |
| 86 | Population Analysis of Mesophilic Microbial Fuel Cells Fed with Carbon Monoxide. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 713-726.   | 1.4 | 19        |
| 87 | High-rate biomethane production from microalgal biomass in a UASB reactor. <i>Algal Research</i> , 2015, 7, 86-91.   | 2.4 | 19        |
| 88 | Electron microscopic examination of the extracellular polymeric substances in anaerobic granular biofilms. <i>World Journal of Microbiology and Biotechnology</i> , 1995, 11, 481-485.                     | 1.7 | 18        |
| 89 | A Market Study on the Anaerobic Waste-water Treatment Systems. <i>Water, Air, and Soil Pollution</i> , 2003, 143, 179-192.   | 1.1 | 18        |
| 90 | Comparison of different support materials for their capacity to immobilize <i>Mycobacterium austroafricanum</i> IFP 2012 and to adsorb MtBE. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1524-1530. | 1.6 | 18        |

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|-----|---|-----|-----------|
| 91  | Ethanol-to-methane activity of <i>Geobacter</i> -deprived anaerobic granules enhanced by conductive microparticles. <i>Process Biochemistry</i> , 2017, 63, 42-48.  | 1.8 | 18        |
| 92  | Monitoring Methanotrophic Bacteria in Hybrid Anaerobic-Aerobic Reactors with PCR and a Catabolic Gene Probe. <i>Applied and Environmental Microbiology</i> , 1999, 65, 381-388.   | 1.4 | 17        |
| 93  | Fate of explosives and their metabolites in bioslurry treatment processes. <i>Biodegradation</i> , 1997, 8, 339-347.  | 1.5 | 16        |
| 94  | A microcosm test for potential mineralization of chlorinated compounds under coupled aerobic/anaerobic conditions. <i>Chemosphere</i> , 2002, 47, 695-699.  | 4.2 | 16        |
| 95  | The performance of a thermophilic microbial fuel cell fed with synthesis gas. <i>Enzyme and Microbial Technology</i> , 2012, 51, 163-170.   | 1.6 | 16        |
| 96  | Application of a Variable Structure Model in Observation and Control of an Anaerobic Digester. <i>Biotechnology Progress</i> , 2002, 18, 898-903.   | 1.3 | 15        |
| 97  | Fluorescence-based monitoring of tracer and substrate distribution in an UASB reactor. <i>Chemosphere</i> , 2006, 65, 1212-1220.  | 4.2 | 14        |
| 98  | Methane production in an UASB reactor operated under periodic mesophilic and thermophilic conditions. <i>Biotechnology and Bioengineering</i> , 2008, 100, 1115-1121.   | 1.7 | 13        |
| 99  | Use of <i>Mycobacterium austroafricanum</i> IFP 2012 in a MTBE-Degrading Bioreactor. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2008, 15, 190-198.  | 1.0 | 13        |
| 100 | Orthogonal optimization of <i>Carboxydotherrmus hydrogenoformans</i> culture medium for hydrogen production from carbon monoxide by biological water-gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10655-10665. | 3.8 | 13        |
| 101 | Simulation and sterilization of a surrogate soil organic matter for the study of the fate of trichloroethylene in soil. <i>Communications in Soil Science and Plant Analysis</i> , 1997, 28, 1177-1190.   | 0.6 | 12        |
| 102 | Kinetics of CO conversion into H <sub>2</sub> by <i>Carboxydotherrmus hydrogenoformans</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 1677-1684.   | 1.7 | 12        |
| 103 | Electrolysis-enhanced co-digestion of switchgrass and cow manure. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1501-1506.  | 1.6 | 12        |
| 104 | Synthesis of <sup>14</sup> C-labelled octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) for use in microcosm experiments. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1999, 42, 1251-1264.                               | 0.5 | 11        |
| 105 | Origin of <i>p</i> -cresol in the anaerobic degradation of trinitrotoluene. <i>Canadian Journal of Microbiology</i> , 2000, 46, 119-124.  | 0.8 | 11        |
| 106 | Induction of Granulation by Sulphonated Lignin and Calcium in an Upflow Anaerobic Sludge Bed Reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 1992, 53, 45-56.  | 1.6 | 11        |
| 107 | Immobilization of anaerobic sludge using chitosan crosslinked with lignosulfonate. <i>Journal of Industrial Microbiology and Biotechnology</i> , 1998, 20, 45-47.   | 1.4 | 10        |
| 108 | Mixing characteristics and performance of the anaerobic upflow blanket filter (UBF) reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 1985, 35, 65-74.   | 0.2 | 9         |

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|-----|--|-----|-----------|
| 109 | Use of silicone membranes to enhance gas transfer during microbial fuel cell operation on carbon monoxide. <i>Bioresource Technology</i> , 2011, 102, 10898-10906.   | 4.8 | 9         |
| 110 | Application of a VSM-Based Process Control to a Bench-Scale Anaerobic Digester. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 106-113.  | 1.8 | 8         |
| 111 | Enhanced Biodegradation of Petroleum Hydrocarbons in Contaminated Soil. <i>Journal of Soil Contamination</i> , 1998, 7, 37-51.   | 0.5 | 7         |
| 112 | Biodegradation of Benzene in a Laboratory-Scale Biobarrier at Low Dissolved Oxygen Concentrations. <i>Bioremediation Journal</i> , 2001, 5, 63-77.   | 1.0 | 7         |
| 113 | On-line estimation of kinetic parameters in anaerobic digestion using observer-based estimators and multiwavelength fluorometry. <i>Water Science and Technology</i> , 2006, 53, 77-83.  | 1.2 | 7         |
| 114 | Strategy to identify the causes and to solve a sludge granulation problem in methanogenic reactors: application to a full-scale plant treating cheese wastewater. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21318-21331. | 2.7 | 7         |
| 115 | Modeling and Analysis of Co-immobilized Aerobic/Anaerobic Mixed Cultures. <i>Biotechnology Progress</i> , 1998, 14, 672-679.   | 1.3 | 6         |
| 116 | Anaerobic Biodegradation of Trichloroethylene Sorbed by a Surrogate Soil Organic Matter. <i>Journal of Environmental Quality</i> , 2000, 29, 1033-1040.  | 1.0 | 6         |
| 117 | Removal of Pyrene and Benzo(a)Pyrene from Contaminated Water by Sequential and Simultaneous Ozonation and Biotreatment. <i>Water Environment Research</i> , 2006, 78, 2286-2292.   | 1.3 | 6         |
| 118 | Thermodynamical and Microbiological Evidence of Trophic Microniches for Propionate Degradation in a Methanogenic Sludge-Bed Reactor. , 1990, , 173-183.  |     | 6         |
| 119 | Electricity production from synthesis gas in a multi-electrode microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 499-507.   | 1.6 | 5         |
| 120 | Fungal pretreatment by <i>Phanerochaete chrysosporium</i> to reduce the inhibition of methanogenesis by dehydroabietic acid. <i>Applied Microbiology and Biotechnology</i> , 1998, 49, 538-544.  | 1.7 | 4         |
| 121 | Comparison of treatment efficacy and stability of microbial populations between raw and anaerobically treated liquid pig manure, using PCR-DGGE and 16S sequencing. <i>Canadian Journal of Microbiology</i> , 2008, 54, 83-90.                 | 0.8 | 4         |
| 122 | Anaerobic Digestion as an Effective Biofuel Production Technology. , 2012, , 143-161.  |     | 4         |
| 123 | The Role of <i>Carboxydotherrmus hydrogenoformans</i> in the Conversion of Calcium Phosphate from Amorphous to Crystalline State. <i>PLoS ONE</i> , 2014, 9, e89480.   | 1.1 | 4         |
| 124 | Fate of palmitic, palmitoleic and eicosapentaenoic acids during anaerobic digestion of <i>Phaeodactylum tricornutum</i> at varying lipid concentration. <i>Algal Research</i> , 2014, 6, 46-51.  | 2.4 | 4         |
| 125 | A comparison of microbial and bioelectrochemical approaches for biogas upgrade through carbon dioxide conversion to methane. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101158.  | 1.7 | 4         |
| 126 | Temperature-Based Control of an Anaerobic Reactor Using a Multi-Model Observer-Based Estimator. <i>Environmental Science &amp; Technology</i> , 2007, 41, 978-983.   | 4.6 | 3         |



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|-----|---|-----|-----------|
| 127 | In-storage psychrophilic anaerobic digestion: acclimated microbial kinetics. Environmental Technology (United Kingdom), 2012, 33, 1763-1772.  | 1.2 | 3         |
| 128 | Encapsulation of Bacteria for Biodegradation of Gasoline Hydrocarbons. Methods in Biotechnology, 2006, , 415-426.   | 0.2 | 3         |
| 129 | Physicochemical pretreatment selects microbial communities to produce alcohols through metabolism of volatile fatty acids. Biomass Conversion and Biorefinery, 2024, 14, 2661-2675.   | 2.9 | 3         |
| 130 | Process coupling of anaerobic and aerobic biofilms for treatment of contaminated waste liquids. Studies in Environmental Science, 1997, , 591-602.  | 0.0 | 2         |
| 131 | Growth profile of Carboxydotherrmus hydrogenoformans on pyruvate. AMB Express, 2013, 3, 60.   | 1.4 | 2         |
| 132 | Effects of Dilution and Fungal Pretreatment on Anaerobic Biodegradability of Oxygen Delignification Process Spent Liquor. Water Quality Research Journal of Canada, 1999, 34, 599-614.  | 1.2 | 1         |
| 133 | Ultrastructure of a bio-electrolytic methanogenic/methanotrophic granular biofilm for the complete degradation of tetrachloroethylene in contaminated groundwater. Water Science and Technology, 2007, 55, 465-471.             | 1.2 | 1         |
| 134 | Microbial Characteristics and Inffence Factors During Anaerobic Fermentation for Biohydrogen Production from CO. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2012, 18, 656. | 0.1 | 1         |
| 135 | Quantitative method based on energy and mass balance for estimating substrate transient accumulation in activated sludge during wastewater treatment. Biotechnology and Bioengineering, 1986, 28, 1637-1646.                    | 1.7 | 0         |
| 136 | Transport of Gellan Gum Microbeads in Soil Columns of Various Grain Size Distributions. Canadian Journal of Chemical Engineering, 2004, 82, 994-1003.   | 0.9 | 0         |