## Jean S Vandergheynst

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Predicting black soldier fly larvae biomass and methionine accumulation using a kinetic model for batch cultivation and improving system performance using semi-batch cultivation. Bioprocess and Biosystems Engineering, 2022, 45, 333-344.	1.7	3
2	Versatile lifestyles of <i>Edwardsiella</i> : Free-living, pathogen, and core bacterium of the aquatic resistome. Virulence, 2022, 13, 5-18.	1.8	14
3	Assessment of using solid residues of fish for treating soil by the biosolarization technique as an alternative to soil fumigation. Journal of Cleaner Production, 2022, 357, 131886.	4.6	3
4	Soil Application of Almond Residue Biomass Following Black Soldier Fly Larvae Cultivation. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	2
5	Distribution of antibiotic resistance genes in the environment. Environmental Pollution, 2021, 285, 117402.	3.7	126
6	<i>Burkholderiaceae</i> and Multidrug Resistance Genes Are Key Players in Resistome Development in a Germfree Soil Model. MSystems, 2021, 6, e0098821.	1.7	7
7	Almond processing residues as a source of organic acid biopesticides during biosolarization. Waste Management, 2020, 101, 74-82.	3.7	32
8	Algal photosynthetic aeration increases the capacity of bacteria to degrade organics in wastewater. Biotechnology and Bioengineering, 2020, 117, 62-72.	1.7	31
9	The effect of the microalgae-bacteria microbiome on wastewater treatment and biomass production. Applied Microbiology and Biotechnology, 2020, 104, 893-905.	1.7	41
10	Characterization of digestate microbial community structure following thermophilic anaerobic digestion with varying levels of green and food wastes. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 1031-1044.	1.4	18
11	Structural changes in bacterial and fungal soil microbiome components during biosolarization as related to volatile fatty acid accumulation. Applied Soil Ecology, 2020, 153, 103602.	2.1	10
12	Changes of Fusarium oxysporum f.sp. lactucae levels and soil microbial community during soil biosolarization using chitin as soil amendment. PLoS ONE, 2020, 15, e0232662.	1.1	23
13	Almond byâ€product composition impacts the rearing of black soldier fly larvae and quality of the spent substrate as a soil amendment. Journal of the Science of Food and Agriculture, 2020, 100, 4618-4626.	1.7	20
14	Food Loss and Waste: Measurement, Drivers, and Solutions. Annual Review of Environment and Resources, 2019, 44, 117-156.	5.6	104
15	Degradation and bioavailability of dried alginate hydrocolloid capsules in simulated soil system. Journal of Applied Polymer Science, 2019, 136, 48142.	1.3	10
16	Managing high fiber food waste for the cultivation of black soldier fly larvae. Npj Science of Food, 2019, 3, 15.	2.5	44
17	The initial soil microbiota impacts the potential for lignocellulose degradation during soil solarization. Journal of Applied Microbiology, 2019, 126, 1729-1741.	1.4	20
18	Compost induces the accumulation of biopesticidal organic acids during soil biosolarization. Resources, Conservation and Recycling, 2019, 143, 27-35.	5.3	23

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19	Assessment of biogas production and microbial ecology in a high solid anaerobic digestion of major California food processing residues. Bioresource Technology Reports, 2019, 5, 1-11.	1.5	24
20	Effect of management of organic wastes on inactivation of Brassica nigra and Fusarium oxysporum f.sp. lactucae using soil biosolarization. Pest Management Science, 2018, 74, 1892-1902.	1.7	25
21	Effects of Short-Term Biosolarization Using Mature Compost and Industrial Tomato Waste Amendments on the Generation and Persistence of Biocidal Soil Conditions and Subsequent Tomato Growth. Journal of Agricultural and Food Chemistry, 2018, 66, 5451-5461.	2.4	15
22	Leaf-Encapsulated Vaccines: Agroinfiltration and Transient Expression of the AntigenStaphylococcal EndotoxinB in Radish Leaves. Journal of Immunology Research, 2018, 2018, 1-9.	0.9	10
23	Comparison of thermophilic anaerobic and aerobic treatment processes for stabilization of green and food wastes and production of soil amendments. Waste Management, 2018, 77, 555-564.	3.7	25
24	Cultivation of black soldier fly larvae on almond byproducts: impacts of aeration and moisture on larvae growth and composition. Journal of the Science of Food and Agriculture, 2018, 98, 5893-5900.	1.7	48
25	Algal–bacterial synergy in treatment of winery wastewater. Npj Clean Water, 2018, 1, .	3.1	75
26	Impact of thiamine metabolites and spent medium from Chlorella sorokiniana on metabolism in the green algae Auxenochlorella prototheciodes. Algal Research, 2018, 33, 197-208.	2.4	15
27	Understanding the Anthropocene through the lens of landfill microbiomes. Frontiers in Ecology and the Environment, 2018, 16, 354-360.	1.9	7
28	Impact of organic waste composition on life cycle energy production, global warming and Water use for treatment by anaerobic digestion followed by composting. Resources, Conservation and Recycling, 2018, 137, 126-135.	5.3	22
29	Nitrogen amendment of green waste impacts microbial community, enzyme secretion and potential for lignocellulose decomposition. Process Biochemistry, 2017, 52, 214-222.	1.8	20
30	Assessment of Two Solid Anaerobic Digestate Soil Amendments for Effects on Soil Quality and Biosolarization Efficacy. Journal of Agricultural and Food Chemistry, 2017, 65, 3434-3442.	2.4	46
31	Development and characterization of a thermophilic, lignin degrading microbiota. Process Biochemistry, 2017, 63, 193-203.	1.8	29
32	Comparison of soil biosolarization with mesophilic and thermophilic solid digestates on soil microbial quantity and diversity. Applied Soil Ecology, 2017, 119, 183-191.	2.1	18
33	Weed seed inactivation in soil mesocosms via biosolarization with mature compost and tomato processing waste amendments. Pest Management Science, 2017, 73, 862-873.	1.7	42
34	A life cycle assessment of biosolarization as a valorization pathway for tomato pomace utilization in California. Journal of Cleaner Production, 2017, 141, 146-156.	4.6	27
35	Effect of Partially Stabilized Organic Amendments on Volatile Acids Production and Pest Inactivation using Soil Biosolarization. , 2017, , .		4
36	<i>Modeling of photosynthetic aeration for energy-efficient wastewater treatment and reduced greenhouse gas emissions</i> . , 2017, , .		1

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37	Ionic Liquids Impact the Bioenergy Feedstock-Degrading Microbiome and Transcription of Enzymes Relevant to Polysaccharide Hydrolysis. MSystems, 2016, 1, .	1.7	15
38	Enrichment of microbial communities tolerant to the ionic liquids tetrabutylphosphonium chloride and tributylethylphosphonium diethylphosphate. Applied Microbiology and Biotechnology, 2016, 100, 5639-5652.	1.7	6
39	Ionic liquid-tolerant microorganisms and microbial communities for lignocellulose conversion to bioproducts. Applied Microbiology and Biotechnology, 2016, 100, 10237-10249.	1.7	41
40	Cofactor symbiosis for enhanced algal growth, biofuel production, and wastewater treatment. Algal Research, 2016, 17, 308-315.	2.4	53
41	The role of organic matter amendment level on soil heating, organic acid accumulation, and development of bacterial communities in solarized soil. Applied Soil Ecology, 2016, 106, 37-46.	2.1	48
42	Assessment of tomato and wine processing solid wastes as soil amendments for biosolarization. Waste Management, 2016, 48, 156-164.	3.7	56
43	Room-temperature storage of microalgae in water-in-oil emulsions: influence of solid particle type and concentration in the oil phase. Bioprocess and Biosystems Engineering, 2015, 38, 2451-2460.	1.7	2
44	Preservation of microbial communities enriched on lignocellulose under thermophilic and high-solid conditions. Biotechnology for Biofuels, 2015, 8, 206.	6.2	22
45	Coâ€culturing <i>Chlorella minutissima</i> with <i>Escherichia coli</i> can increase neutral lipid production and improve biodiesel quality. Biotechnology and Bioengineering, 2015, 112, 1801-1809.	1.7	33
46	The role of silica nanoparticles on longâ€ŧerm roomâ€ŧemperature stabilization of waterâ€inâ€oil emulsions containing microalgae. Letters in Applied Microbiology, 2015, 61, 568-572.	1.0	1
47	The antioxidant hydroxytyrosol: biotechnological production challenges and opportunities. Applied Microbiology and Biotechnology, 2015, 99, 1119-1130.	1.7	46
48	Elevated CO2 concentration impacts cell wall polysaccharide composition of green microalgae of the genus <i>Chlorella</i> . Letters in Applied Microbiology, 2015, 60, 1-7.	1.0	65
49	Performance of green waste biocovers for enhancing methane oxidation. Waste Management, 2015, 39, 205-215.	3.7	17
50	Effects of pretreatment conditions and post–pretreatment washing on ethanol production from dilute acid pretreated rice straw. Biosystems Engineering, 2015, 137, 36-42.	1.9	28
51	Organic and Inorganic Nitrogen Impact Chlorella variabilis Productivity and Host Quality for Viral Production and Cell Lysis. Applied Biochemistry and Biotechnology, 2015, 176, 467-479.	1.4	25
52	MS-DIAL: data-independent MS/MS deconvolution for comprehensive metabolome analysis. Nature Methods, 2015, 12, 523-526.	9.0	1,955
53	Informatics for improved algal taxonomic classification and research: A case study of UTEX 2341. Algal Research, 2015, 12, 545-549.	2.4	20
54	Effects of Escherichia coli on Mixotrophic Growth of Chlorella minutissima and Production of Biofuel Precursors. PLoS ONE, 2014, 9, e96807.	1.1	58

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55	Metatranscriptomic analysis of lignocellulolytic microbial communities involved in high-solids decomposition of rice straw. Biotechnology for Biofuels, 2014, 7, 495.	6.2	40
56	<i>Bacillus coagulans</i> tolerance to 1â€ethylâ€3â€methylimidazoliumâ€based ionic liquids in aqueous and solidâ€state thermophilic culture. Biotechnology Progress, 2014, 30, 311-316.	1.3	19
57	Characterization of bacterial communities in solarized soil amended with lignocellulosic organic matter. Applied Soil Ecology, 2014, 73, 97-104.	2.1	37
58	Managing the cultivation and processing of microalgae to prolong storage in water-in-oil emulsions. Applied Microbiology and Biotechnology, 2014, 98, 5427-5433.	1.7	3
59	Attachment of <i>Agrobacterium tumefaciens</i> to leaf tissue in response to infiltration conditions. Biotechnology Progress, 2014, 30, 1137-1144.	1.3	4
60	Effect of inoculum source on the enrichment of microbial communities on two lignocellulosic bioenergy crops under thermophilic and high-solids conditions. Journal of Applied Microbiology, 2014, 117, 1025-1034.	1.4	13
61	The impact of elevated CO <sub>2</sub> concentration on the quality of algal starch as a potential biofuel feedstock. Biotechnology and Bioengineering, 2014, 111, 1323-1331.	1.7	55
62	Microplate assay for quantitation of neutral lipids in extracts from microalgae. Analytical Biochemistry, 2014, 465, 81-89.	1.1	32
63	Influence of leaching pretreatment on fuel properties of biomass. Fuel Processing Technology, 2014, 128, 43-53.	3.7	103
64	Cloning Rosa hybrid phenylacetaldehyde synthase for the production of 2-phenylethanol in a whole cell Escherichia coli system. Applied Microbiology and Biotechnology, 2014, 98, 3603-3611.	1.7	35
65	Microorganism viability influences internal phase droplet size changes during storage in water-in-oil emulsions. Bioprocess and Biosystems Engineering, 2013, 36, 1427-1434.	1.7	8
66	Dilute acid pretreatment and fermentation of sugar beet pulp to ethanol. Applied Energy, 2013, 105, 1-7.	5.1	118
67	Managing compost stability and amendment to soil to enhance soil heating during soil solarization. Waste Management, 2013, 33, 1090-1096.	3.7	49
68	Virus infection of Chlorella variabilis and enzymatic saccharification of algal biomass for bioethanol production. Bioresource Technology, 2013, 137, 326-331.	4.8	54
69	Discovery of Microorganisms and Enzymes Involved in High-Solids Decomposition of Rice Straw Using Metagenomic Analyses. PLoS ONE, 2013, 8, e77985.	1.1	50
70	Ensilage and Bioconversion of Grape Pomace into Fuel Ethanol. Journal of Agricultural and Food Chemistry, 2012, 60, 11128-11134.	2.4	56
71	Improving the efficiency of enzyme utilization for sugar beet pulp hydrolysis. Bioprocess and Biosystems Engineering, 2012, 35, 1531-1539.	1.7	13
72	Rapid, in situ detection of <i>Agrobacterium tumefaciens</i> attachment to leaf tissue. Biotechnology Progress, 2012, 28, 1321-1328.	1.3	5

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73	Thermophilic enrichment of microbial communities in the presence of the ionic liquid 1-ethyl-3-methylimidazolium acetate. Journal of Applied Microbiology, 2012, 113, 1362-1370.	1.4	27
74	Qualitative analysis of algal secretions with multiple mass spectrometric platforms. Journal of Chromatography A, 2012, 1244, 139-147.	1.8	65
75	Integrating sugar beet pulp storage, hydrolysis and fermentation for fuel ethanol production. Applied Energy, 2012, 93, 168-175.	5.1	81
76	Quantitative real time measurements of bacteria–bacteriophages interactions in fresh lettuce leaves. Journal of Food Engineering, 2012, 111, 176-185.	2.7	10
77	Glycoside Hydrolase Activities of Thermophilic Bacterial Consortia Adapted to Switchgrass. Applied and Environmental Microbiology, 2011, 77, 5804-5812.	1.4	99
78	Factorial Experimental Designs for Enhancement of Concurrent Poly(Hydroxyalkanoate) Production and Brewery Wastewater Treatment. Water Environment Research, 2011, 83, 36-43.	1.3	11
79	Enrichment, isolation and characterization of fungi tolerant to 1-ethyl-3-methylimidazolium acetate. Journal of Applied Microbiology, 2011, 110, 1023-1031.	1.4	34
80	The impact of cell wall carbohydrate composition on the chitosan flocculation of Chlorella. Process Biochemistry, 2011, 46, 1927-1933.	1.8	108
81	Selection of Conditions for Cellulase and Xylanase Extraction from Switchgrass Colonized by Acidothermus cellulolyticus. Applied Biochemistry and Biotechnology, 2011, 164, 793-803.	1.4	19
82	Rapid Quantitative Analysis of Lipids Using a Colorimetric Method in a Microplate Format. Lipids, 2011, 46, 95-103.	0.7	189
83	Effects of phenolic monomers on growth of <i>Acidothermus cellulolyticus</i> . Biotechnology Progress, 2011, 27, 23-31.	1.3	5
84	Bioenergy feedstockâ€specific enrichment of microbial populations during highâ€solids thermophilic deconstruction. Biotechnology and Bioengineering, 2011, 108, 2088-2098.	1.7	23
85	Effects of ensilage on storage and enzymatic degradability of sugar beet pulp. Bioresource Technology, 2011, 102, 1489-1495.	4.8	54
86	High-throughput analysis of hexosamine using a colorimetric method. Analytical Biochemistry, 2011, 408, 160-162.	1.1	7
87	Xylanase and cellulase production byAcidothermus cellulolyticusgrown on switchgrass in solid-state fermentation. Biofuels, 2011, 2, 21-32.	1.4	7
88	Hydrophobic microspheres for <i>in situ</i> removal of 2-phenylethanol from yeast fermentation. Journal of Microencapsulation, 2011, 28, 628-638.	1.2	16
89	Switchgrass leaching requirements for solidâ€state fermentation by <i>Acidothermus cellulolyticus</i> . Biotechnology Progress, 2010, 26, 622-626.	1.3	5
90	Storage and release of solutes and microalgae from water-in-oil emulsions stabilized by silica nanoparticles. Process Biochemistry, 2010, 45, 1-6.	1.8	7

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91	Evaluation of High Solids Alkaline Pretreatment of Rice Straw. Applied Biochemistry and Biotechnology, 2010, 162, 1768-1784.	1.4	210
92	Critical moisture content for microbial growth in dried food-processing residues. Journal of the Science of Food and Agriculture, 2010, 90, 2000-2005.	1.7	34
93	Solid–liquid extraction of alkali metals and organic compounds by leaching of food industry residues. Bioresource Technology, 2010, 101, 4331-4336.	4.8	11
94	Targeted Discovery of Glycoside Hydrolases from a Switchgrass-Adapted Compost Community. PLoS ONE, 2010, 5, e8812.	1.1	170
95	A model of <i>Agrobacterium tumefaciens</i> vacuum infiltration into harvested leaf tissue and subsequent in planta transgene transient expression. Biotechnology and Bioengineering, 2009, 102, 965-970.	1.7	52
96	Development of models for predicting carbon mineralization and associated phytotoxicity in compost-amended soil. Bioresource Technology, 2008, 99, 8735-8741.	4.8	22
97	Comparison of several maturity indicators for estimating phytotoxicity in compost-amended soil. Waste Management, 2008, 28, 2070-2076.	3.7	32
98	Predicting Phytotoxicity of Compost-Amended Soil from Compost Stability Measurements. Environmental Engineering Science, 2008, 25, 72-81.	0.8	25
99	Storage and release of solutes and microalgae from water-in-oil emulsions stabilized by silica nanoparticles. , 2008, , .		0
100	Response surface studies that elucidate the role of infiltration conditions on Agrobacterium tumefaciens-mediated transient transgene expression in harvested switchgrass (Panicum virgatum). Biomass and Bioenergy, 2007, 32, 372-372.	2.9	3
101	Water-in-oil emulsions that improve the storage and delivery of the biolarvacide Lagenidium giganteum. BioControl, 2007, 52, 207-229.	0.9	51
102	Transient co-expression of post-transcriptional gene silencing suppressors and β-glucuronidase in harvested lettuce leaf tissue does not improve recombinant protein accumulation in planta. Biotechnology Letters, 2007, 29, 641-645.	1.1	11
103	Design of formulations for improved biological control agent viability and sequestration during storage. Industrial Biotechnology, 2006, 2, 213-219.	0.5	26
104	Evaluating Extraction and Storage of a Recombinant Protein Produced in Agroinfiltrated Lettuce. Biotechnology Progress, 2006, 22, 723-730.	1.3	6
105	The kinetics of Lagenidium giganteum growth in liquid and solid cultures. Journal of Applied Microbiology, 2006, 101, 807-814.	1.4	7
106	Agroinfiltration of plant tissues for production of high-value recombinant proteins: an alternative to production in transgenic crops. Journal of the Science of Food and Agriculture, 2006, 86, 2002-2004.	1.7	13
107	Design and evaluation of a grapevine pruner for biofungicide application. Bioresource Technology, 2005, 96, 963-968.	4.8	8
108	High-level transient expression of recombinant protein in lettuce. Biotechnology and Bioengineering, 2005, 91, 861-871.	1.7	57

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109	Estimating Electrical Conductivity of Compost Extracts At Different Extraction Ratios. Compost Science and Utilization, 2004, 12, 202-207.	1.2	18
110	Production of Botrytis cinerea for potential introduction into a vineyard. Bioresource Technology, 2004, 92, 41-48.	4.8	4
111	Evaluation of PCR primers for denaturing gradient gel electrophoresis analysis of fungal communities in compost. Journal of Applied Microbiology, 2003, 95, 934-948.	1.4	44
112	Design and Evaluation of PCR Primers for Analysis of Bacterial Populations in Wine by Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 2003, 69, 6801-6807.	1.4	168
113	Dynamic volume-averaged model of heat and mass transport within a compost biofilter: I. Model development. Biotechnology and Bioengineering, 2001, 73, 282-294.	1.7	23
114	Equilibrium Moisture Isotherms for Synthetic Food Waste And Biosolids Composts. Compost Science and Utilization, 1999, 7, 6-13.	1.2	8
115	Effect of Process Management on the Emission of Organosulfur Compounds and Gaseous Antecedents from Composting Processes. Environmental Science & amp; Technology, 1998, 32, 3713-3718.	4.6	34
116	Energy Transport in a High-Solids Aerobic Degradation Process: Mathematical Modeling and Analysis. Biotechnology Progress, 1997, 13, 238-248.	1.3	40