

# P J Weimer

## List of Publications by Year in descending order

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53  
papers

4,266  
citations

101496

36  
h-index

168321

53  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fermentation of cellulose and cellobiose by <i>Clostridium thermocellum</i> in the absence of <i>Methanobacterium thermoautotrophicum</i> . <i>Applied and Environmental Microbiology</i> , 1977, 33, 289-297.	1.4	365
2	Cellulolytic and physiological properties of <i>Clostridium thermocellum</i> . <i>Archives of Microbiology</i> , 1977, 114, 1-7.	1.0	286
3	Host specificity of the ruminal bacterial community in the dairy cow following near-total exchange of ruminal contents. <i>Journal of Dairy Science</i> , 2010, 93, 5902-5912.	1.4	235
4	Comparative study of SPORL and dilute-acid pretreatments of spruce for cellulosic ethanol production. <i>Bioresource Technology</i> , 2010, 101, 3106-3114.	4.8	234
5	One carbon metabolism in methanogenic bacteria. <i>Archives of Microbiology</i> , 1978, 119, 49-57.	1.0	169
6	Acetate metabolism in <i>Methanosarcina barkeri</i> . <i>Archives of Microbiology</i> , 1978, 119, 175-182.	1.0	151
7	Why Don't Ruminal Bacteria Digest Cellulose Faster?. <i>Journal of Dairy Science</i> , 1996, 79, 1496-1502.	1.4	148
8	Effect of cellulose fine structure on kinetics of its digestion by mixed ruminal microorganisms in vitro. <i>Applied and Environmental Microbiology</i> , 1990, 56, 2421-2429.	1.4	144
9	Effect of Diet on Populations of Three Species of Ruminal Cellulolytic Bacteria in Lactating Dairy Cows. <i>Journal of Dairy Science</i> , 1999, 82, 122-134.	1.4	130
10	Manipulating ruminal fermentation: a microbial ecological perspective.. <i>Journal of Animal Science</i> , 1998, 76, 3114.	0.2	128
11	Isolation and characterization of a new, methylotrophic, acidogenic anaerobe, the marburg strain. <i>Current Microbiology</i> , 1980, 3, 381-386.	1.0	120
12	Production of caproic acid by cocultures of ruminal cellulolytic bacteria and <i>Clostridium kluyveri</i> grown on cellulose and ethanol. <i>Applied Microbiology and Biotechnology</i> , 1995, 44, 507-513.	1.7	113
13	Initial pH as a Determinant of Cellulose Digestion Rate by Mixed Ruminal Microorganisms In Vitro. <i>Journal of Dairy Science</i> , 2001, 84, 848-859.	1.4	107
14	The survival of silage inoculant lactic acid bacteria in rumen fluid. <i>Journal of Applied Microbiology</i> , 2003, 94, 1066-1071.	1.4	99
15	Effect of Phosphate on the Corrosion of Carbon Steel and on the Composition of Corrosion Products in Two-Stage Continuous Cultures of <i>Desulfovibrio desulfuricans</i> . <i>Applied and Environmental Microbiology</i> , 1988, 54, 386-396.	1.4	93
16	Shifts in bacterial community composition in the rumen of lactating dairy cows under milk fat-depressing conditions. <i>Journal of Dairy Science</i> , 2010, 93, 265-278.	1.4	91
17	Quantitative analysis of growth and volatile fatty acid production by the anaerobic ruminal bacterium <i>Megasphaera elsdenii</i> T81. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 4075-4081.	1.7	89
18	Bacterial methanogenesis: Acetate as a methane precursor in pure culture. <i>Archives of Microbiology</i> , 1975, 104, 129-134.	1.0	87

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19	Degradation characteristics of isolated and in situ cell wall lucerne pectic polysaccharides by mixed ruminal microbes. <i>Journal of the Science of Food and Agriculture</i> , 1995, 69, 185-196.	1.7	84
20	pH dynamics and bacterial community composition in the rumen of lactating dairy cows. <i>Journal of Dairy Science</i> , 2010, 93, 279-287.	1.4	81
21	Acetate assimilation pathway of <i>Methanosarcina barkeri</i> . <i>Journal of Bacteriology</i> , 1979, 137, 332-339.	1.0	80
22	Effects of dilution rate and pH on the ruminal cellulolytic bacterium <i>Fibrobacter succinogenes</i> S85 in cellulose-fed continuous culture. <i>Archives of Microbiology</i> , 1993, 160, 288-294.	1.0	79
23	Response surface analysis of the effects of pH and dilution rate on <i>Ruminococcus flavefaciens</i> FD-1 in cellulose-fed continuous culture. <i>Applied and Environmental Microbiology</i> , 1992, 58, 2583-2591.	1.4	74
24	Cellodextrin efflux by the cellulolytic ruminal bacterium <i>Fibrobacter succinogenes</i> and its potential role in the growth of nonadherent bacteria. <i>Applied and Environmental Microbiology</i> , 1995, 61, 1757-1762.	1.4	70
25	Relationship between the fine structure of native cellulose and cellulose degradability by the cellulase complexes of <i>Trichoderma reesei</i> and <i>Clostridium thermocellum</i> . <i>Biotechnology and Bioengineering</i> , 1985, 27, 1540-1547.	1.7	66
26	Characterization, Genetic Variation, and Combining Ability of Maize Traits Relevant to the Production of Cellulosic Ethanol. <i>Crop Science</i> , 2009, 49, 85-98.	0.8	66
27	Differential Fermentation of Cellulose Allomorphs by Ruminal Cellulolytic Bacteria. <i>Applied and Environmental Microbiology</i> , 1991, 57, 3101-3106.	1.4	65
28	In vitro gas production as a surrogate measure of the fermentability of cellulosic biomass to ethanol. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 52-58.	1.7	60
29	Effects of chemical treatments and heating on the crystallinity of celluloses and their implications for evaluating the effect of crystallinity on cellulose biodegradation. <i>Biotechnology and Bioengineering</i> , 1995, 48, 169-178.	1.7	59
30	Thermophilic anaerobic bacteria which ferment hemicellulose: characterization of organisms and identification of plasmids. <i>Archives of Microbiology</i> , 1984, 138, 31-36.	1.0	51
31	Competition for cellulose among three predominant ruminal cellulolytic bacteria under substrate-excess and substrate-limited conditions. <i>Applied and Environmental Microbiology</i> , 1997, 63, 734-742.	1.4	50
32	Single-Pass Harvest of Corn Grain and Stover: Performance of Three Harvester Configurations. <i>Transactions of the ASABE</i> , 2009, 52, 51-60.	1.1	49
33	Symposium review: Host-rumen microbe interactions may be leveraged to improve the productivity of dairy cows. <i>Journal of Dairy Science</i> , 2018, 101, 7680-7689.	1.4	48
34	Individual animal variability in ruminal bacterial communities and ruminal acidosis in primiparous Holstein cows during the periparturient period. <i>Journal of Dairy Science</i> , 2012, 95, 6716-6730.	1.4	45
35	Fermentability of eastern gamagrass, big bluestem and sand bluestem grown across a wide variety of environments. <i>Bioresource Technology</i> , 2007, 98, 1615-1621.	4.8	44
36	Utilization of individual cellodextrins by three predominant ruminal cellulolytic bacteria. <i>Applied and Environmental Microbiology</i> , 1996, 62, 1084-1088.	1.4	40

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37	Sucrose concentration alters fermentation kinetics, products, and carbon fates during in vitro fermentation with mixed ruminal microbes <sup>1</sup> . <i>Journal of Animal Science</i> , 2007, 85, 1467-1478.	0.2	39
38	Production of caproic acid by cocultures of ruminal cellulolytic bacteria and <i>Clostridium kluyveri</i> grown on cellulose and ethanol. <i>Applied Microbiology and Biotechnology</i> , 1995, 44, 507-513.	1.7	35
39	Changes in ruminal bacterial community composition following feeding of alfalfa ensiled with a lactic acid bacterial inoculant. <i>Journal of Dairy Science</i> , 2012, 95, 328-339.	1.4	31
40	Fermentation of a Bacterial Cellulose/Xylan Composite by Mixed Ruminal Microflora: Implications for the Role of Polysaccharide Matrix Interactions in Plant Cell Wall Biodegradability. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 1727-1733.	2.4	30
41	Effects of ruminal dosing of Holstein cows with <i>Megasphaera elsdenii</i> on milk fat production, ruminal chemistry, and bacterial strain persistence. <i>Journal of Dairy Science</i> , 2015, 98, 8078-8092.	1.4	29
42	Thermophilic anaerobic fermentation of hemicellulose and hemicellulose-derived aldose sugars by <i>Thermoanaerobacter</i> strain B6A. <i>Archives of Microbiology</i> , 1985, 143, 130-136.	1.0	27
43	Inhibition of ruminal cellulose fermentation by extracts of the perennial legume cicer milkvetch ( <i>Astragalus cicer</i> ). <i>Applied and Environmental Microbiology</i> , 1993, 59, 405-409.	1.4	26
44	Fermentation of alfalfa wet-fractionation liquids to volatile fatty acids by <i>Streptococcus bovis</i> and <i>Megasphaera elsdenii</i> . <i>Bioresource Technology</i> , 2013, 142, 88-94.	4.8	25
45	Solid residues from <i>Ruminococcus</i> cellulose fermentations as components of wood adhesive formulations. <i>Applied Microbiology and Biotechnology</i> , 2003, 63, 29-34.	1.7	23
46	Divergent utilization patterns of grass fructan, inulin, and other nonfiber carbohydrates by ruminal microbes. <i>Journal of Dairy Science</i> , 2016, 99, 245-257.	1.4	22
47	Fermentation of 6-Deoxyhexoses by <i>Bacillus macerans</i> . <i>Applied and Environmental Microbiology</i> , 1984, 47, 263-267.	1.4	22
48	Wood adhesives prepared from lucerne fiber fermentation residues of <i>Ruminococcus albus</i> and <i>Clostridium thermocellum</i> . <i>Applied Microbiology and Biotechnology</i> , 2005, 66, 635-640.	1.7	21
49	Competition for cellobiose among three predominant ruminal cellulolytic bacteria under substrate-excess and substrate-limited conditions. <i>Applied and Environmental Microbiology</i> , 1997, 63, 743-748.	1.4	16
50	In vitro ruminal fermentation of treated alfalfa silage using ruminal inocula from high and low feed-efficient lactating cows. <i>Journal of Applied Microbiology</i> , 2016, 121, 333-340.	1.4	9
51	Anaerobic Fermentation of Woody Biomass Pretreated with Supercritical Ammonia. <i>Applied and Environmental Microbiology</i> , 1986, 52, 733-736.	1.4	7
52	Method for measuring gas production kinetics. BSAP Occasional Publication, 1998, 22, 209-211.	0.0	3
53	Automated screening of inhibitors of bacterial dissimilatory sulfate reduction. <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 297-300.	1.7	1