

# Bryan M Jenkins

## List of Publications by Year in descending order

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106  
papers

7,586  
citations

66315

42  
h-index

53190

85  
g-index

109  
all docs

109  
docs citations

109  
times ranked

7439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combustion properties of biomass. Fuel Processing Technology, 1998, 54, 17-46.	3.7	1,538
2	The behavior of inorganic material in biomass-fired power boilers: field and laboratory experiences. Fuel Processing Technology, 1998, 54, 47-78.	3.7	557
3	Boiler deposits from firing biomass fuels. Biomass and Bioenergy, 1996, 10, 125-138.	2.9	349
4	Emission Factors for Polycyclic Aromatic Hydrocarbons from Biomass Burning. Environmental Science & Technology, 1996, 30, 2462-2469.	4.6	340
5	On the properties of washed straw. Biomass and Bioenergy, 1996, 10, 177-200.	2.9	329
6	Release of Inorganic Constituents from Leached Biomass during Thermal Conversion. Energy & Fuels, 1999, 13, 860-870.	2.5	228
7	High temperature elemental losses and mineralogical changes in common biomass ashes. Fuel, 2006, 85, 783-795.	3.4	217
8	Evaluation of High Solids Alkaline Pretreatment of Rice Straw. Applied Biochemistry and Biotechnology, 2010, 162, 1768-1784.	1.4	210
9	Climate-smart agriculture global research agenda: scientific basis for action. Agriculture and Food Security, 2014, 3, .	1.6	165
10	Particle concentrations, gas-particle partitioning, and species intercorrelations for Polycyclic Aromatic Hydrocarbons (PAH) emitted during biomass burning. Atmospheric Environment, 1996, 30, 3825-3835.	1.9	148
11	A comment on the optimal sizing of a biomass utilization facility under constant and variable cost scaling. Biomass and Bioenergy, 1997, 13, 1-9.	2.9	143
12	Development of a biorefinery optimized biofuel supply curve for the Western United States. Biomass and Bioenergy, 2010, 34, 1597-1607.	2.9	120
13	Dilute acid pretreatment and fermentation of sugar beet pulp to ethanol. Applied Energy, 2013, 105, 1-7.	5.1	118
14	Emerging role of Geographical Information System (GIS), Life Cycle Assessment (LCA) and spatial LCA (GIS-LCA) in sustainable bioenergy planning. Bioresource Technology, 2017, 242, 218-226.	4.8	117
15	Experimental determination of high-temperature elemental losses from biomass slag. Fuel, 2000, 79, 693-700.	3.4	115
16	Non-ionic Surfactants and Non-Catalytic Protein Treatment on Enzymatic Hydrolysis of Pretreated Creeping Wild Ryegrass. Applied Biochemistry and Biotechnology, 2008, 146, 231-248.	1.4	109
17	Characteristics and biogas production potential of municipal solid wastes pretreated with a rotary drum reactor. Bioresource Technology, 2009, 100, 1122-1129.	4.8	107
18	Influence of leaching pretreatment on fuel properties of biomass. Fuel Processing Technology, 2014, 128, 43-53.	3.7	103

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19	Optimization under uncertainty of a biomass-integrated renewable energy microgrid with energy storage. <i>Renewable Energy</i> , 2018, 123, 204-217.	4.3	87
20	A spatially explicit techno-economic model of bioenergy and biofuels production in California. <i>Journal of Transport Geography</i> , 2010, 18, 715-728.	2.3	84
21	Integrating sugar beet pulp storage, hydrolysis and fermentation for fuel ethanol production. <i>Applied Energy</i> , 2012, 93, 168-175.	5.1	81
22	Optimization of a biomass-integrated renewable energy microgrid with demand side management under uncertainty. <i>Applied Energy</i> , 2018, 230, 836-844.	5.1	80
23	Heating process characteristics and kinetics of sewage sludge in different atmospheres. <i>Thermochimica Acta</i> , 2004, 409, 127-135.	1.2	76
24	Kinetic modeling for enzymatic hydrolysis of pretreated creeping wild ryegrass. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1558-1569.	1.7	76
25	Thirdhand cigarette smoke in an experimental chamber: evidence of surface deposition of nicotine, nitrosamines and polycyclic aromatic hydrocarbons and de novo formation of NNK. <i>Tobacco Control</i> , 2014, 23, 152-159.	1.8	76
26	Food and processing residues in California: Resource assessment and potential for power generation. <i>Bioresource Technology</i> , 2007, 98, 3098-3105.	4.8	75
27	Compositional constraints on slag formation and potassium volatilization from rice straw blended wood fuel. <i>Fuel Processing Technology</i> , 2006, 87, 383-408.	3.7	68
28	Durability and relaxation of sawdust and wheat-straw briquettes as possible fuels for Kenya. <i>Biomass and Bioenergy</i> , 1995, 8, 175-179.	2.9	67
29	Ultrasound irradiation in the production of ethanol from biomass. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 400-421.	8.2	66
30	Control of in-bed agglomeration by fuel blending in a pilot scale straw and wood fueled AFBC. <i>Biomass and Bioenergy</i> , 1993, 4, 117-133.	2.9	63
31	Heating process characteristics and kinetics of rice straw in different atmospheres. <i>Fuel Processing Technology</i> , 2004, 85, 279-291.	3.7	63
32	Particleboard quality characteristics of saline jost tall wheatgrass and chemical treatment effect. <i>Bioresource Technology</i> , 2007, 98, 1304-1310.	4.8	60
33	Fluidized Bed Combustion of Leached Rice Straw. <i>Energy &amp; Fuels</i> , 2002, 16, 356-365.	2.5	59
34	Ensilage and Bioconversion of Grape Pomace into Fuel Ethanol. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 11128-11134.	2.4	56
35	SuperGrid or SmartGrid: Competing strategies for large-scale integration of intermittent renewables?. <i>Energy Policy</i> , 2013, 58, 381-390.	4.2	55
36	Effects of ensilage on storage and enzymatic degradability of sugar beet pulp. <i>Bioresource Technology</i> , 2011, 102, 1489-1495.	4.8	54

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37	Biomass leachate treatment by reverse osmosis. <i>Fuel Processing Technology</i> , 2003, 81, 223-246.	3.7	52
38	Feasibility of collecting naturally leached rice straw for thermal conversion. <i>Biomass and Bioenergy</i> , 2003, 25, 597-614.	2.9	52
39	Physical properties of thin particleboard made from saline eucalyptus. <i>Industrial Crops and Products</i> , 2007, 26, 185-194.	2.5	52
40	Properties of medium-density particleboard from saline Athel wood. <i>Industrial Crops and Products</i> , 2006, 23, 318-326.	2.5	51
41	Inorganic Composition and Environmental Impact of Biomass Feedstock. <i>Energy &amp; Fuels</i> , 2013, 27, 3969-3987.	2.5	48
42	High-Temperature Melting Behavior of Urban Wood Fuel Ash. <i>Energy &amp; Fuels</i> , 1999, 13, 839-850.	2.5	43
43	Anaerobic digestion of saline creeping wild ryegrass for biogas production and pretreatment of particleboard material. <i>Bioresource Technology</i> , 2009, 100, 1582-1588.	4.8	43
44	Atmospheric emissions from agricultural burning in California: Determination of burn fractions, distribution factors, and crop-specific contributions. <i>Agriculture, Ecosystems and Environment</i> , 1992, 38, 313-330.	2.5	42
45	Biomass fueled fluidized bed combustion: Atmospheric emissions, emission control devices and environmental regulations. <i>Biomass and Bioenergy</i> , 1994, 6, 243-260.	2.9	42
46	Bed agglomeration in fluidized combustor fueled by wood and rice straw blends. <i>Fuel Processing Technology</i> , 2010, 91, 1464-1485.	3.7	42
47	Biomass production and allocation in rice with implications for straw harvesting and utilization. <i>Biomass and Bioenergy</i> , 2003, 24, 163-173.	2.9	38
48	Biogas production from municipal solid wastes using an integrated rotary drum and anaerobic-phased solids digester system. <i>Bioresource Technology</i> , 2010, 101, 6374-6380.	4.8	38
49	Test results from sugar cane bagasse and high fiber cane co-fired with fossil fuels. <i>Biomass and Bioenergy</i> , 2006, 30, 565-574.	2.9	37
50	Anaerobic Digestion technologies for the treatment of Municipal Solid Waste. <i>International Journal of Environment and Waste Management</i> , 2012, 9, 100.	0.2	36
51	On the electric power potential from paddy straw in the Punjab and the optimal size of the power generation station. <i>Bioresource Technology</i> , 1991, 37, 35-41.	4.8	34
52	Bioconversion of Mixed Solids Waste to Ethanol. <i>Applied Biochemistry and Biotechnology</i> , 1999, 78, 455-472.	1.4	29
53	Hybrid response surface methodology-genetic algorithm optimization of ultrasound-assisted transesterification of waste oil catalysed by immobilized lipase on mesoporous silica/iron oxide magnetic core-shell nanoparticles. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2201-2211.	1.2	29
54	Characterization of almond processing residues from the Central Valley of California for thermal conversion. <i>Fuel Processing Technology</i> , 2015, 140, 132-147.	3.7	28

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55	Evaluation of different biomass materials as feedstock for fermentable sugar production. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 423-435.	1.4	26
56	Modeling the performance of the anaerobic phased solids digester system for biogas energy production. <i>Biomass and Bioenergy</i> , 2011, 35, 1263-1272.	2.9	25
57	Modeling poplar growth as a short rotation woody crop for biofuels in the Pacific Northwest. <i>Biomass and Bioenergy</i> , 2015, 79, 12-27.	2.9	23
58	Exposure to Amorphous Silica Fibers and Other Particulate Matter During Rice Farming Operations. <i>Journal of Occupational and Environmental Hygiene</i> , 1995, 10, 677-684.	0.5	22
59	Mercury in Biomass Feedstock and Combustion Residuals. <i>Water, Air, and Soil Pollution</i> , 2010, 209, 429-437.	1.1	21
60	Optimum specific gasification rate for static bed rice hull gasifiers. <i>Biomass and Bioenergy</i> , 1996, 11, 51-62.	2.9	20
61	Fuel characteristics of processed, high-fiber sugarcane. <i>Fuel Processing Technology</i> , 2003, 81, 35-55.	3.7	20
62	Economic impact of combined torrefaction and pelletization processes on forestry biomass supply. <i>GCB Bioenergy</i> , 2017, 9, 681-693.	2.5	20
63	Rice Straw Smoke Generation System for Controlled Human Inhalation Exposures. <i>Aerosol Science and Technology</i> , 2003, 37, 437-454.	1.5	19
64	A comparative study of district and individual energy systems providing electrical-based heating, cooling, and domestic hot water to a low-energy use residential community. <i>Energy and Buildings</i> , 2015, 92, 306-312.	3.1	19
65	Multi-objective optimization of transesterification in biodiesel production catalyzed by immobilized lipase. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 804-818.	1.9	19
66	On representative sampling and reliable chemical characterization in thermal biomass conversion studies. <i>Biomass and Bioenergy</i> , 2009, 33, 1513-1519.	2.9	17
67	Technical and economic feasibility of unitary, horizontal ground-loop geothermal heat pumps for space conditioning in selected california climate zones. <i>Energy and Buildings</i> , 2016, 119, 164-172.	3.1	17
68	Air and Steam Gasification of Almond Biomass. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	17
69	Analytical Controlled Losses of Potassium from Straw Ashes. <i>Energy &amp; Fuels</i> , 2005, 19, 2571-2575.	2.5	16
70	Influence of moisture content on microbial activity and silage quality during ensilage of food processing residues. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 987-995.	1.7	16
71	Simulation and model validation of a horizontal shallow basin solar concentrator. <i>Solar Energy</i> , 2007, 81, 463-475.	2.9	15
72	Impact of biases in gridded weather datasets on biomass estimates of short rotation woody cropping systems. <i>Agricultural and Forest Meteorology</i> , 2017, 233, 71-79.	1.9	15

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73	An Apparatus for Generating Aged Cigarette Smoke for Controlled Human Exposure Studies. <i>Aerosol Science and Technology</i> , 2012, 46, 1246-1255.	1.5	14
74	Trace metal release during wood pyrolysis. <i>Fuel</i> , 2017, 203, 548-556.	3.4	14
75	Pretreatment of lignocellulosic biomass using bioleaching to reduce inorganic elements. <i>Fuel</i> , 2019, 246, 386-393.	3.4	14
76	Economic sustainability modeling provides decision support for assessing hybrid poplar-based biofuel development in California. <i>California Agriculture</i> , 2015, 69, 171-176.	0.5	14
77	Wind tunnel modeling of atmospheric emissions from agricultural burning: influence of operating configuration on flame structure and particle emission factor for a spreading-type fire. <i>Environmental Science &amp; Technology</i> , 1993, 27, 1763-1775.	4.6	13
78	Improving the efficiency of enzyme utilization for sugar beet pulp hydrolysis. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1531-1539.	1.7	13
79	Optimal design and operating strategies for a biomass-fueled combined heat and power system with energy storage. <i>Energy</i> , 2018, 155, 620-629.	4.5	12
80	Sustainable use of California biomass resources can help meet state and national bioenergy targets. <i>California Agriculture</i> , 2009, 63, 168-177.	0.5	12
81	Combustion of residual biosolids from a high solids anaerobic digestion/aerobic composting process. <i>Biomass and Bioenergy</i> , 1997, 12, 367-381.	2.9	11
82	Solid-liquid extraction of alkali metals and organic compounds by leaching of food industry residues. <i>Bioresource Technology</i> , 2010, 101, 4331-4336.	4.8	11
83	Chemical and Toxicological Properties of Emissions from a Light-Duty Compressed Natural Gas Vehicle Fueled with Renewable Natural Gas. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2820-2830.	4.6	10
84	Salt recovery from agricultural drainage water using a liquid film solar-assisted concentrator – Simulation and model validation. <i>Solar Energy</i> , 2007, 81, 1314-1321.	2.9	9
85	Wood residues from sawmills in California. <i>Biomass and Bioenergy</i> , 2008, 32, 101-108.	2.9	9
86	Plant response and energy savings for bench-top-heated greenhouses. <i>Scientia Horticulturae</i> , 1992, 49, 135-146.	1.7	8
87	Gypsum scale reduction and collection from drainage water in solar concentration. <i>Desalination</i> , 2011, 265, 140-147.	4.0	8
88	Design of a GIS-Based Web Application for Simulating Biofuel Feedstock Yields. <i>ISPRS International Journal of Geo-Information</i> , 2014, 3, 929-941.	1.4	7
89	Survey documents open burning in the San Joaquin Valley. <i>California Agriculture</i> , 1991, 45, 12-16.	0.5	7
90	Inorganic Composition of Saline-Irrigated Biomass. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	6

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91	Development of a dynamic model to estimate canopy par interception. Biosystems Engineering, 2020, 198, 120-136.	1.9	5
92	Hybrid Poplar based Biorefinery Siting Web Application (HP-BISWA): An online decision support application for siting hybrid poplar based biorefineries. Computers and Electronics in Agriculture, 2018, 155, 76-83.	3.7	4
93	Chapter 5. Assessing the Need for High Impact Technology Research, Development & Deployment for Mitigating Climate Change. Collabra, 2016, 2, .	1.3	3
94	White Poplar Microwave Pyrolysis: Heating Rate and Optimization of Biochar Yield. BioResources, 2017, 13, .	0.5	3
95	Review of research to inform California's climate scoping plan: Agriculture and working lands. California Agriculture, 2017, 71, 160-168.	0.5	3
96	Temperature exposure of greenhouses from monthly means of daily maximum and minimum temperatures. Biosystems Engineering, 1987, 37, 191-208.	0.4	2
97	Effects of Leaching Method and Ashing Temperature of Rice Residues for Energy Production and Construction Materials. ACS Sustainable Chemistry and Engineering, 2021, 9, 3677-3687.	3.2	2
98	Bioleaching of Sorghum Straw in Bioreactors for Biomass Cleaning. Fermentation, 2021, 7, 270.	1.4	2
99	Measurements of the upstream turbulent flow during wind tunnel simulations of agricultural field burning. Boundary-Layer Meteorology, 1995, 76, 233-258.	1.2	1
100	Rates of drainage-water evaporite salt dissolution in water. Desalination, 2008, 227, 306-313.	4.0	1
101	Optimal Orientation of a Liquid-Film Solar-Assisted Brine Concentrator. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.1	1
102	Interview: Interview with Bryan Jenkins. Biofuels, 2010, 1, 27-31.	1.4	1
103	Non-ionic Surfactants and Non-Catalytic Protein Treatment on Enzymatic Hydrolysis of Pretreated Creeping Wild Ryegrass. , 2007, , 351-368.		1
104	Biofuels:. California Agriculture, 2009, 63, 155-158.	0.5	1
105	Anthropocene Geochemical and Technological Signatures of an Experimental Landfill Bioreactor in the Central Valley of California. Anthropocene Science, 2022, 1, 246-263.	1.6	1
106	Setting the Foundations for International and Cross-disciplinary Innovation: The U.S.-Denmark Summer School "Renewable Energy: In Practice". , 0, , .		0