

Borja Velázquez-Martín

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,702
citations

304602

22
h-index

302012

39
g-index

75
all docs

75
docs citations

75
times ranked

1901
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the mathematical models for predicting the heating value of biomass materials. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3065-3083.	8.2	196
2	Greenhouse crop residues: Energy potential and models for the prediction of their higher heating value. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 948-955.	8.2	161
3	Quantification of the residual biomass obtained from pruning of trees in Mediterranean olive groves. <i>Biomass and Bioenergy</i> , 2011, 35, 3208-3217.	2.9	88
4	Estimation of shrub biomass by airborne LiDAR data in small forest stands. <i>Forest Ecology and Management</i> , 2011, 262, 1697-1703.	1.4	74
5	Prediction models for higher heating value based on the structural analysis of the biomass of plant remains from the greenhouses of Almería (Spain). <i>Fuel</i> , 2014, 116, 377-387.	3.4	67
6	Mathematical algorithms to locate factories to transform biomass in bioenergy focused on logistic network construction. <i>Renewable Energy</i> , 2010, 35, 2136-2142.	4.3	59
7	Different methodologies for calculating crown volumes of <i>Platanus hispanica</i> trees using terrestrial laser scanner and a comparison with classical dendrometric measurements. <i>Computers and Electronics in Agriculture</i> , 2013, 90, 176-185.	3.7	58
8	Pretreatment of Animal Manure Biomass to Improve Biogas Production: A Review. <i>Energies</i> , 2020, 13, 3573.	1.6	54
9	Analysis of the factors affecting LiDAR DTM accuracy in a steep shrub area. <i>International Journal of Digital Earth</i> , 2011, 4, 521-538.	1.6	53
10	Quantification of the residual biomass obtained from pruning of vineyards in Mediterranean area. <i>Biomass and Bioenergy</i> , 2011, 35, 3453-3464.	2.9	52
11	Compatibility between Crops and Solar Panels: An Overview from Shading Systems. <i>Sustainability</i> , 2018, 10, 743.	1.6	50
12	An application of the vehicle routing problem to biomass transportation. <i>Biosystems Engineering</i> , 2014, 124, 40-52.	1.9	44
13	Quantification of the residual biomass obtained from pruning of trees in Mediterranean almond groves. <i>Renewable Energy</i> , 2011, 36, 621-626.	4.3	39
14	Estimation of biomass and volume of shrub vegetation using LiDAR and spectral data in a Mediterranean environment. <i>Biomass and Bioenergy</i> , 2012, 46, 710-721.	2.9	39
15	Estimation of wood volume and height of olive tree plantations using airborne discrete-return LiDAR data. <i>GIScience and Remote Sensing</i> , 2014, 51, 17-29.	2.4	32
16	Residual biomass calculation from individual tree architecture using terrestrial laser scanner and ground-level measurements. <i>Computers and Electronics in Agriculture</i> , 2013, 93, 90-97.	3.7	31
17	Dendrometric and dasometric analysis of the bushy biomass in Mediterranean forests. <i>Forest Ecology and Management</i> , 2010, 259, 875-882.	1.4	25
18	Available residual biomass obtained from pruning <i>Morus alba</i> L. trees cultivated in an urban forest. <i>Renewable Energy</i> , 2013, 60, 27-33.	4.3	25

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19	Analysis of the process of biomass harvesting with collecting-chippers fed by pick up headers in plantations of olive trees. <i>Biosystems Engineering</i> , 2009, 104, 184-190.	1.9	24
20	GIS Application to Define Biomass Collection Points as Sources for Linear Programming of Delivery Networks. <i>Transactions of the ASABE</i> , 2009, 52, 1069-1078.	1.1	24
21	The Influence of Mechanical Pruning in Cost Reduction, Production of Fruit, and Biomass Waste in Citrus Orchards. <i>Applied Engineering in Agriculture</i> , 2010, 26, 531-540.	0.3	24
22	Estimation of pruned biomass from dendrometric parameters on urban forests: Case study of <i>Sophora japonica</i> . <i>Renewable Energy</i> , 2012, 47, 188-193.	4.3	23
23	Prediction models for estimating pruned biomass obtained from <i>Platanus hispanica</i> Mill. used for material surveys in urban forests. <i>Renewable Energy</i> , 2014, 66, 178-184.	4.3	23
24	Estimation of pruning biomass of olive trees using airborne discrete-return LiDAR data. <i>Biomass and Bioenergy</i> , 2015, 81, 315-321.	2.9	22
25	Chemical characterization of traditional varietal olive oils in East of Spain. <i>Food Research International</i> , 2013, 54, 1934-1940.	2.9	20
26	Wood characterization for energy application proceeding from pruning <i>Morus alba</i> L., <i>Platanus hispanica</i> Mill. and <i>Sophora japonica</i> L. in urban areas. <i>Renewable Energy</i> , 2014, 62, 478-483.	4.3	20
27	Review of <i>Moringa oleifera</i> as forage meal (leaves plus stems) intended for the feeding of non-ruminant animals. <i>Animal Feed Science and Technology</i> , 2020, 260, 114338.	1.1	20
28	Review of Mathematical Models for the Anaerobic Digestion Process. , 0, , .		19
29	Calculation of biomass volume of citrus trees from an adapted dendrometry. <i>Biosystems Engineering</i> , 2012, 112, 285-292.	1.9	18
30	Dendrometric analysis of olive trees for wood biomass quantification in Mediterranean orchards. <i>Agroforestry Systems</i> , 2014, 88, 755-765.	0.9	18
31	Estimating residual biomass of olive tree crops using terrestrial laser scanning. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 75, 163-170.	1.4	18
32	Determination of Dielectric Properties of Agricultural Soil. <i>Biosystems Engineering</i> , 2005, 91, 119-125.	1.9	17
33	Indices of ergonomic-psychosociological workplace quality in the greenhouses of Almería (Spain): Crops of cucumbers, peppers, aubergines and melons. <i>Safety Science</i> , 2011, 49, 746-750.	2.6	17
34	Quantitative and qualitative characteristics of biomass derived from pruning <i>Phoenix canariensis</i> hort. ex Chabaud. and <i>Phoenix dactylifera</i> L. <i>Renewable Energy</i> , 2014, 71, 545-552.	4.3	17
35	Mechanized methods for harvesting residual biomass from Mediterranean fruit tree cultivations. <i>Scientia Agricola</i> , 2012, 69, 180-188.	0.6	16
36	Germination Inhibition of Undesirable Seed in the Soil using Microwave Radiation. <i>Biosystems Engineering</i> , 2006, 93, 365-373.	1.9	15

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37	Biochemical potential of methane (BMP) of camelid waste and the Andean region agricultural crops. <i>Renewable Energy</i> , 2021, 168, 406-415.	4.3	15
38	Prediction models based on higher heating value from the elemental analysis of neem, mango, avocado, banana, and carob trees in Guayas (Ecuador). <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	14
39	Work conditions for microwave applicators designed to eliminate undesired vegetation in a field. <i>Biosystems Engineering</i> , 2008, 100, 31-37.	1.9	12
40	Development of biomass fast proximate analysis by thermogravimetric scale. <i>Renewable Energy</i> , 2018, 126, 954-959.	4.3	12
41	Thermal Evaluation of a Hybrid Dryer with Solar and Geothermal Energy for Agroindustry Application. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4079.	1.3	11
42	Equipment Performance, Costs and Constraints of Packaging and Transporting Rice Straw for Alternative Uses to Burning in the "Parc Natural l'Albufera de València" (Spain). <i>Agriculture (Switzerland)</i> , 2021, 11, 570.	1.4	10
43	Quantification based on dimensionless dendrometry and drying of residual biomass from the pruning of orange trees in Bolivar province (Ecuador). <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 175-185.	1.9	9
44	In Vitro Characterization of Indigenous Probiotic Strains Isolated from Colombian Creole Pigs. <i>Animals</i> , 2020, 10, 1204.	1.0	9
45	Estimation of the Energy Consumption of the Rice and Corn Drying Process in the Equatorial Zone. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7497.	1.3	9
46	Evaluation and Characterization of Timber Residues of Pinus spp. as an Energy Resource for the Production of Solid Biofuels in an Indigenous Community in Mexico. <i>Forests</i> , 2021, 12, 977.	0.9	9
47	Thermal Effects of Microwave Energy in Agricultural Soil Radiation. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2004, 25, 1109-1122.	0.6	8
48	Characterization of teak pruning waste as an energy resource. <i>Agroforestry Systems</i> , 2020, 94, 241-250.	0.9	7
49	Cyanobacterial Biomass Produced in the Wastewater of the Dairy Industry and Its Evaluation in Anaerobic Co-Digestion with Cattle Manure for Enhanced Methane Production. <i>Processes</i> , 2020, 8, 1290.	1.3	7
50	Separation of virgin plastic polymers and post-consumer mixed plastic waste by sinking-flotation technique. <i>Environmental Science and Pollution Research</i> , 2022, 29, 1364-1374.	2.7	7
51	Assessment of factors affecting shrub volume estimations using airborne discrete-return LiDAR data in Mediterranean areas. <i>Journal of Applied Remote Sensing</i> , 2012, 6, 063544.	0.6	6
52	Dendrometric characterization of corn cane residues and drying models in natural conditions in Bolivar Province (Ecuador). <i>Renewable Energy</i> , 2016, 86, 745-750.	4.3	6
53	Modeling the Calorific Value of Biomass from Fruit Trees Using Elemental Analysis Data. , 2017, , .		6
54	Evaluation of methane production from the anaerobic co-digestion of manure of guinea pig with lignocellulosic Andean residues. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2227-2243.	2.7	6

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55	Viability of Biogas Production and Determination of Bacterial Kinetics in Anaerobic Co-digestion of Cabbage Waste and Livestock Manure. <i>Waste and Biomass Valorization</i> , 2019, 10, 2129-2137.	1.8	5
56	Effect of the co-digestion of agricultural lignocellulosic residues with manure from South American camelids. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 525-544.	1.9	5
57	Potential Use of Pruning Residues from Avocado Trees as Energy Input in Rural Communities. <i>Energies</i> , 2022, 15, 1715.	1.6	5
58	Modeling of Production and Quality of Bioethanol Obtained from Sugarcane Fermentation Using Direct Dissolved Sugars Measurements. <i>Energies</i> , 2016, 9, 319.	1.6	3
59	Influence of Fertilization and Rootstocks in the Biomass Energy Characterization of <i>Prunus dulcis</i> (Miller). <i>Energies</i> , 2018, 11, 1189.	1.6	3
60	A SOLID CARBON DIOXIDE (DRY ICE) COOLING SYSTEM FOR THE MECHANIZED AERIAL RELEASE OF STERILE MALE CERATITIS CAPITATA. <i>Transactions of the ASABE</i> , 2006, 49, 335-340.	1.1	2
61	Classification of successional stages in native forests of the Argentine Spinal through neural networks. <i>Land Degradation and Development</i> , 2019, 30, 2064-2072.	1.8	2
62	Autonomous Installations for Monitoring the "Protector Prosperina" Forest. <i>Applied Sciences</i> (Switzerland), 2019, 9, 4034.	1.3	1
63	Logistic models for distribution of straw in crops of fruit tree plots where mulch is applied. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105604.	3.7	1
64	Quantification Model of Residual Biomass in Citrus Uprooting. <i>Agronomy</i> , 2022, 12, 1648.	1.3	1
65	Systems of Pruning on Jigacho (<i>Vasconcellea stipulata</i> Badillo) under Greenhouse Conditions. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2017, 52, 1060-1064.	0.5	0
66	Dendrometric analysis of <i>Tamarix africana</i> L., species of river and wetlands of the Mediterranean area. Characterisation of biomass. <i>Biomass and Bioenergy</i> , 2019, 120, 426-432.	2.9	0
67	Anaerobic Co-digestion of Slaughter Residues with Agricultural Waste of Amaranth Quinoa and Wheat. <i>Bioenergy Research</i> , 0, , 1.	2.2	0
68	Uso de tertulias dialógicas. Resultados en los exámenes de ciencia agraria. , 0, , .		0
69	Aprendizaje mediante el ejercicio práctico de actividades en asignaturas de ciencias agrarias. , 0, , .		0