

Bernard G Barthes

List of Publications by Year in descending order

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55
papers

3,605
citations

201674

27
h-index

161849

54
g-index

56
all docs

56
docs citations

56
times ranked

3640
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregate stability as an indicator of soil susceptibility to runoff and erosion; validation at several levels. <i>Catena</i> , 2002, 47, 133-149.	5.0	564
2	A global spectral library to characterize the world's soil. <i>Earth-Science Reviews</i> , 2016, 155, 198-230.	9.1	546
3	Soil Spectroscopy: An Alternative to Wet Chemistry for Soil Monitoring. <i>Advances in Agronomy</i> , 2015, , 139-159.	5.2	288
4	Assessment and monitoring of soil quality using near-infrared reflectance spectroscopy (NIRS). <i>European Journal of Soil Science</i> , 2009, 60, 770-784.	3.9	179
5	Texture and sesquioxide effects on water-stable aggregates and organic matter in some tropical soils. <i>Geoderma</i> , 2008, 143, 14-25.	5.1	168
6	Increased soil organic carbon stocks under agroforestry: A survey of six different sites in France. <i>Agriculture, Ecosystems and Environment</i> , 2017, 236, 243-255.	5.3	158
7	Determination of carbon and nitrogen contents in Alfisols, Oxisols and Ultisols from Africa and Brazil using NIRS analysis: Effects of sample grinding and set heterogeneity. <i>Geoderma</i> , 2007, 139, 106-117.	5.1	146
8	Impact of alley cropping agroforestry on stocks, forms and spatial distribution of soil organic carbon – A case study in a Mediterranean context. <i>Geoderma</i> , 2015, 259-260, 288-299.	5.1	121
9	Long-term effect of a legume cover crop (<i>Mucuna pruriens</i> var. <i>utilis</i>) on the communities of soil macrofauna and nematofauna, under maize cultivation, in southern Benin. <i>European Journal of Soil Biology</i> , 2006, 42, S136-S144.	3.2	104
10	National calibration of soil organic carbon concentration using diffuse infrared reflectance spectroscopy. <i>Geoderma</i> , 2016, 276, 41-52.	5.1	91
11	Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 2001, 61, 159-170.	2.2	81
12	Earthworm activity affects soil aggregation and organic matter dynamics according to the quality and localization of crop residues – An experimental study (Madagascar). <i>Soil Biology and Biochemistry</i> , 2007, 39, 2119-2128.	8.8	78
13	Effect of sugarcane residue management (mulching versus burning) on organic matter in a clayey Oxisol from southern Brazil. <i>Agriculture, Ecosystems and Environment</i> , 2006, 115, 285-289.	5.3	72
14	Determination of Total Carbon and Nitrogen Content in a Range of Tropical Soils Using near Infrared Spectroscopy: Influence of Replication and Sample Grinding and Drying. <i>Journal of Near Infrared Spectroscopy</i> , 2006, 14, 341-348.	1.5	66
15	Determining the distributions of soil carbon and nitrogen in particle size fractions using near-infrared reflectance spectrum of bulk soil samples. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1533-1537.	8.8	63
16	Prediction of soil organic and inorganic carbon contents at a national scale (France) using mid-infrared reflectance spectroscopy (MIRS). <i>European Journal of Soil Science</i> , 2012, 63, 141-151.	3.9	62
17	Field-scale run-off and erosion in relation to topsoil aggregate stability in three tropical regions (Benin, Cameroon, Mexico). <i>European Journal of Soil Science</i> , 2000, 51, 485-495.	3.9	57
18	Relationship between soil erodibility and topsoil aggregate stability or carbon content in a cultivated mediterranean highland (Aveyron, France). <i>Communications in Soil Science and Plant Analysis</i> , 1999, 30, 1929-1938.	1.4	56

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19	Prediction of soil organic carbon stock using visible and near infrared reflectance spectroscopy (VNIRS) in the field. <i>Geoderma</i> , 2016, 261, 151-159.	5.1	55
20	Best practices for obtaining and processing field visible and near infrared (VNIR) spectra of topsoils. <i>Geoderma</i> , 2014, 214-215, 126-134.	5.1	46
21	Near infrared reflectance spectroscopy: A tool to characterize the composition of different types of exogenous organic matter and their behaviour in soil. <i>Soil Biology and Biochemistry</i> , 2011, 43, 197-205.	8.8	44
22	Determination of soil content in chlordecone (organochlorine pesticide) using near infrared reflectance spectroscopy (NIRS). <i>Environmental Pollution</i> , 2009, 157, 3120-3125.	7.5	43
23	Avaliação de atributos físicos e estoques de carbono e nitrogênio em solos com queima e sem queima de canavial. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008, 32, 789-800.	1.3	42
24	Performance comparison between a miniaturized and a conventional near infrared reflectance (NIR) spectrometer for characterizing soil carbon and nitrogen. <i>Geoderma</i> , 2019, 338, 422-429.	5.1	39
25	Effect of a legume cover crop (<i>Mucuna pruriens</i> var. <i>utilis</i>) on soil carbon in an Ultisol under maize cultivation in southern Benin. <i>Soil Use and Management</i> , 2004, 20, 231-239.	4.9	39
26	Prediction of soil organic and inorganic carbon concentrations in Tunisian samples by mid-infrared reflectance spectroscopy using a French national library. <i>Geoderma</i> , 2020, 375, 114469.	5.1	36
27	Pairwise comparison of soil organic particle-size distributions in native savannas and Eucalyptus plantations in Congo. <i>Forest Ecology and Management</i> , 2008, 255, 1050-1056.	3.2	33
28	Quantification of soil organic carbon stock in urban soils using visible and near infrared reflectance spectroscopy (VNIRS) in situ or in laboratory conditions. <i>Science of the Total Environment</i> , 2019, 686, 764-773.	8.0	27
29	Comparing near and Mid-Infrared Reflectance Spectroscopy for Determining Properties of Malagasy Soils, Using Global or LOCAL Calibration. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 495-509.	1.5	26
30	Improvement in spectral library-based quantification of soil properties using representative spiking and local calibration – The case of soil inorganic carbon prediction by mid-infrared spectroscopy. <i>Geoderma</i> , 2020, 369, 114272.	5.1	21
31	Comparison between predictions of C and N contents in tropical soils using a Vis-NIR spectrometer including a fibre-optic probe versus a NIR spectrometer including a sample transport module. <i>Biosystems Engineering</i> , 2008, 100, 448-452.	4.3	20
32	Near infrared reflectance spectroscopy (NIRS) could be used for characterization of soil nematode community. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1649-1659.	8.8	17
33	Ramial wood amendments (<i>Ptilostigma reticulatum</i>) mitigate degradation of tropical soils but do not replenish nutrient exports. <i>Land Degradation and Development</i> , 2018, 29, 2694-2706.	3.9	15
34	La matière organique soluble à l'eau chaude et la stabilité de l'agrégation. Aspects méthodologiques et application à des sols ferrallitiques du Congo. <i>European Journal of Soil Science</i> , 1997, 48, 239-247.	3.9	14
35	Prediction of total silicon concentrations in French soils using pedotransfer functions from mid-infrared spectrum and pedological attributes. <i>Geoderma</i> , 2018, 331, 70-80.	5.1	14
36	Effets de l'apport de bois raméal sur la plante et le sol: une revue des résultats expérimentaux. <i>Cahiers Agricultures</i> , 2010, 19, 280-287.	0,9	14

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37	Black carbon estimation in French calcareous soils using chemo-thermal oxidation method. <i>Soil Use and Management</i> , 2011, 27, 333-339.	4.9	13
38	Studying the Physical Protection of Soil Carbon with Quantitative Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2016, 24, 199-214.	1.5	13
39	Prediction of soil carbon and nitrogen contents using visible and near infrared diffuse reflectance spectroscopy in varying salt-affected soils in Sine Saloum (Senegal). <i>Catena</i> , 2022, 212, 106075.	5.0	12
40	Effect of ramial wood amendment on sorghum production and topsoil quality in a Sudano-Sahelian ecosystem (central Burkina Faso). <i>Agroforestry Systems</i> , 2015, 89, 81-93.	2.0	11
41	Diversity and socio-economic aspects of oil palm agroforestry systems on the Allada plateau, southern Benin. <i>Agroforestry Systems</i> , 2020, 94, 41-56.	2.0	11
42	Infrared spectroscopy approaches support soil organic carbon estimations to evaluate land degradation. <i>Land Degradation and Development</i> , 2021, 32, 310-322.	3.9	11
43	Relations entre stabilit� de l'agr�gation et mati�re organique totale et soluble � l'eau chaude dans des sols ferrallitiques argileux (Congo, Br�sil). <i>Canadian Journal of Soil Science</i> , 1999, 79, 561-569.	1.2	10
44	Determination of potential denitrification in a range of tropical topsoils using near infrared reflectance spectroscopy (NIRS). <i>Applied Soil Ecology</i> , 2010, 46, 81-89.	4.3	10
45	Dataset of visible-near infrared handheld and micro-spectrometers � comparison of the prediction accuracy of sugarcane properties. <i>Data in Brief</i> , 2020, 31, 106013.	1.0	10
46	Using carbonate absorbance peak to select the most suitable regression model before predicting soil inorganic carbon concentration by mid-infrared reflectance spectroscopy. <i>Geoderma</i> , 2022, 405, 115403.	5.1	10
47	Use of Near Infrared Reflectance Spectroscopy (NIRS) for Predicting Soil Fertility and Historical Management. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 1692-1705.	1.4	9
48	A Congo Basin ethnographic analogue of pre-Columbian Amazonian raised fields shows the ephemeral legacy of organic matter management. <i>Scientific Reports</i> , 2020, 10, 10851.	3.3	9
49	Physical protection of soil carbon in macroaggregates does not reduce the temperature dependence of soil CO ₂ emissions. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 592-600.	1.9	8
50	Near Infrared Reflectance Spectroscopy Applied to Model the Transformation of Added Organic Materials in Soil. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 339-351.	1.5	6
51	Effect of a Legume Cover Crop on Carbon Storage and Erosion in an Ultisol under Maize Cultivation in Southern Benin. , 2005, , 143-155.		5
52	Effet � court terme de la mise en culture sur le statut organique et l'agr�gation d'un sol ferrallitique argileux du Congo. <i>Canadian Journal of Soil Science</i> , 1996, 76, 493-499.	1.2	4
53	Comparative analysis of nutritional status and growth of immature oil palm in various intercropping systems in southern Benin. <i>Experimental Agriculture</i> , 2020, 56, 371-386.	0.9	3
54	Comparison of soil organic carbon stocks predicted using visible and near infrared reflectance (VNIR) spectra acquired in situ vs. on sieved dried samples: Synthesis of different studies. <i>Soil Security</i> , 2021, 5, 100024.	2.3	3

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55	Concurrent starch accumulation in stump and high fruit production in coffee (<i>Coffea) Tj ETQq1 1 0.784314 rgBTJ /Overlock 10 Tf 50	3.1	2