Tatiana Dizhbite

List of Publications by Year
in descending order

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45 papers	2,083 citations	279798 23 h-index	289244 40 g-index
45 all docs	45 docs citations	45 times ranked	2922 citing authors

#	Article	IF	Citations
1	Characterization of the radical scavenging activity of lignins??natural antioxidants. Bioresource Technology, 2004, 95, 309-317.	9.6	511
2	Pre-treatment of biomass with phosphoric acid prior to fast pyrolysis. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 197-211.	5.5	163
3	Application of catalysts for obtaining 1,6-anhydrosaccharides from cellulose and wood by fast pyrolysis. Journal of Analytical and Applied Pyrolysis, 2005, 74, 401-405.	5.5	160
4	Lignin â€" a useful bioresource for the production of sorption-active materials. Bioresource Technology, 1999, 67, 221-228.	9.6	110
5	Fractionation of technical lignins as a tool for improvement of their antioxidant properties. Journal of Analytical and Applied Pyrolysis, 2013, 103, 78-85.	5.5	100
6	Cocoa bean shell waste valorisation; extraction from lab to pilot-scale cavitational reactors. Food Research International, 2019, 115, 200-208.	6.2	87
7	Mechanoradical formation and its effects on birch kraft pulp during the preparation of nanofibrillated cellulose with Masuko refining. Holzforschung, 2012, 66, .	1.9	82
8	Production of nanoporous carbons from wood processing wastes and their use in supercapacitors and CO2 capture. Biomass and Bioenergy, 2012, 46, 145-154.	5.7	78
9	Analytical pyrolysis â€" A tool for revealing of lignin structure-antioxidant activity relationship. Journal of Analytical and Applied Pyrolysis, 2015, 113, 360-369.	5.5	65
10	Characterization of Softwood and Hardwood LignoBoost Kraft Lignins with Emphasis on their Antioxidant Activity. BioResources, 2014, 9, .	1.0	61
11	Antioxidant activity of various lignins and lignin-related phenylpropanoid units with high and low molecular weight. Holzforschung, 2015, 69, 795-805.	1.9	51
12	Exploring the application potential of incompletely soluble organosolv lignin as a macromonomer for polyurethane synthesis. Industrial Crops and Products, 2016, 92, 1-12.	5.2	50
13	Surface-active properties of hydrophobized derivatives of lignosulfonates: Effect of structure of organosilicon modifier. Journal of Applied Polymer Science, 2001, 82, 1013-1020.	2.6	46
14	Characterisation of the initial degradation stage of Scots pine (Pinus sylvestris L.) sapwood after attack by brown-rot fungus Coniophora puteana. Biodegradation, 2011, 22, 719-728.	3.0	38
15	Py-GC/MS for characterization of non-hydrolyzed residues from bioethanol production from softwood. Journal of Analytical and Applied Pyrolysis, 2011, 90, 126-132.	5.5	36
16	Structure and antioxidant activity of diarylheptanoids extracted from bark of grey alder (Alnus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 .	1.9	36
17	Degradation of lime wood painting supports. Journal of Analytical and Applied Pyrolysis, 2007, 79, 71-77.	5.5	34
18	Lignin â€" Derived antioxidants as value-added products obtained under cavitation treatments of the wheat straw processing for sugar production. Journal of Cleaner Production, 2021, 303, 126369.	9.3	33

#	Article	IF	Citations
19	Microwave treatment combined with conventional heating of plant biomass pellets in a rotated reactor as a high rate process for solid biofuel manufacture. Renewable Energy, 2016, 91, 386-396.	8.9	32
20	Design of siliceous lignins â€“ Novel organic/inorganic hybrid sorbent materials. Scripta Materialia, 2009, 60, 687-690.	5.2	29
21	Polyoxometalate (POM)-aided modification of lignin from wheat straw biorefinery. Holzforschung, 2013, 67, 539-547.	1.9	27
22	Elucidation of antioxidant properties of wood bark derived saturated diarylheptanoids: A comprehensive (DFT-supported) understanding. Phytochemistry, 2014, 103, 178-187.	2.9	27
23	Characterization of the transformations of lignocellulosic structures upon degradation in planted soil. Journal of Analytical and Applied Pyrolysis, 2007, 79, 52-60.	5.5	24
24	Lignin Modification Supported by DFT-Based Theoretical Study as a Way to Produce Competitive Natural Antioxidants. Molecules, 2019, 24, 1794.	3.8	24
25	Pyrolytic oil on the basis of wood and the antioxidant properties of its water-soluble and -insoluble fraction. Journal of Analytical and Applied Pyrolysis, 2009, 85, 81-86.	5.5	21
26	Characterisation of humic substances formed during co-composting of grass and wood wastes with animal grease. Environmental Technology (United Kingdom), 2012, 33, 1427-1433.	2.2	19
27	Analytical dataset of Ecuadorian cocoa shells and beans. Data in Brief, 2019, 22, 56-64.	1.0	19
28	Structural transformations of wood and cereal biomass components induced by microwave assisted torrefaction with emphasis on extractable value chemicals obtaining. Journal of Analytical and Applied Pyrolysis, 2018, 134, 1-11.	5.5	14
29	Isolation and characterization of the phenolic fractions of wood pyrolytic oil. Holzforschung, 2011, 65, .	1.9	13
30	The influence of hydrothermal synthesis conditions on gyrolite texture and specific surface area. Materials and Structures/Materiaux Et Constructions, 2011, 44, 1687-1701.	3.1	13
31	Oregonin reduces lipid accumulation and proinflammatory responses in primary human macrophages. Biochemical and Biophysical Research Communications, 2015, 458, 693-699.	2.1	13
32	Functionality and physico-chemical characteristics of wheat straw lignin, Bioligninâ„¢, derivatives formed in the oxypropylation process. Holzforschung, 2015, 69, 785-793.	1.9	13
33	Effects of Microwave Treatment on the Chemical Structure of Lignocarbohydrate Matrix of Softwood and Hardwood. Energy & Fuels, 2016, 30, 457-464.	5.1	13
34	Protective effects of proanthocyanidins extracts from the bark of deciduous trees in lipid systems. Holzforschung, 2017, 71, 675-680.	1.9	8
35	Oxidative stress and innate immunity status in chickens exposed to high dose of ascorbic acid. Cell Biochemistry and Function, 2013, 31, 551-559.	2.9	6
36	Diarylheptanoid-rich extract of grey and black alder barks: an effective dietary antioxidant in mayonnaise. Chemical Papers, 2017, 71, 1007-1012.	2.2	6

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37	Role of paramagnetic polyconjugated clusters in lignin antioxidant activity(in vitro). IOP Conference Series: Materials Science and Engineering, 2012, 38, 012033.	0.6	5
38	Elaboration and characterization of organic/inorganic hybrid nanoporous material incorporating Keggin-type Mo-Si polyanions. Journal of Physics: Conference Series, 2007, 93, 012011.	0.4	4
39	Lignin-Based Products Stimulating Soil Phytoremediation. Acta Biotechnologica, 2002, 22, 167-173.	0.9	3
40	CHARACTERIZATION OF BARK RICH-IN-TANNINS EXTRACTS FROM DECIDUOUS TREES WITH EMPHASIS ON THEIR ANTIOXIDANT ACTIVITY. IOP Conference Series: Materials Science and Engineering, 2016, 111, 012013.	0.6	3
41	Optimization of Proanthocyanidins Extraction from Bark of Local Hardwood. Key Engineering Materials, 0, 762, 163-168.	0.4	3
42	Tannins of Deciduous Trees Bark As a Potential Source for Obtaining Ecologically Safe Wood Adhesives. Environment Technology Resources Proceedings of the International Scientific and Practical Conference, 0, 1, 265.	0.0	3
43	PRODUCTS OF LIGNIN MODIFICATION: PROMISING ADSORBENTS OF TOXIC SUBSTANCES. , 2001, , 161-166.		0
44	REGULATION OF LIGNOCELLULOSE MATERIALS SORPTION PROPERTIES BY MODIFICATION FOR ENVIRONMENTAL APPLICATION. , 2006, , 71-76.		0
45	Adsorption Behaviour of Lignosulphonates on the Interfaces Waterâ€“Inorganic/Organic Solids, Used for Paper Production. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 55-64.	0.2	0