Claudia Crestini

List of Publications by Year
in descending order

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159	8,410	38742 50	51608 86
papers	citations	h-index	g-index

168	168	168	7076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxidative upgrade of lignin â€“ Recent routes reviewed. European Polymer Journal, 2013, 49, 1151-1173.	5.4	390
2	On the structure of softwood kraft lignin. Green Chemistry, 2017, 19, 4104-4121.	9.0	368
3	Determination of hydroxyl groups in biorefinery resources via quantitative 31P NMR spectroscopy. Nature Protocols, 2019, 14, 2627-2647.	12.0	272
4	Milled Wood Lignin: A Linear Oligomer. Biomacromolecules, 2011, 12, 3928-3935.	5.4	255
5	Elucidation of Lignin Structure by Quantitative 2D NMR. Chemistry - A European Journal, 2011, 17, 9529-9535.	3.3	245
6	Formamide and the origin of life. Physics of Life Reviews, 2012, 9, 84-104.	2.8	226
7	Structural Analysis of Wheat Straw Lignin by Quantitative31P and 2D NMR Spectroscopy. The Occurrence of Ester Bonds and Î±-O-4 Substructures. Journal of Agricultural and Food Chemistry, 1997, 45, 1212-1219.	5.2	224
8	Ultrasound Driven Assembly of Lignin into Microcapsules for Storage and Delivery of Hydrophobic Molecules. Biomacromolecules, 2014, 15, 1634-1643.	5.4	221
9	Obtaining lignin nanoparticles by sonication. Ultrasonics Sonochemistry, 2015, 23, 369-375.	8.2	204
10	Lignin for Nanoâ€•and Microscaled Carrier Systems: Applications, Trends, and Challenges. ChemSusChem, 2019, 12, 2039-2054.	6.8	200
11	Oxidative strategies in lignin chemistry: A new environmental friendly approach for the functionalisation of lignin and lignocellulosic fibers. Catalysis Today, 2010, 156, 8-22.	4.4	193
12	A possible prebiotic synthesis of purine, adenine, cytosine, and 4(3H)-pyrimidinone from formamide implications for the origin of life. Bioorganic and Medicinal Chemistry, 2001, 9, 1249-1253.	3.0	187
13	Solvent screening for the fractionation of industrial kraft lignin. Holzforschung, 2016, 70, 11-20.	1.9	161
14	Understanding Lignin Aggregation Processes. A Case Study: Budesonide Entrapment and Stimuli Controlled Release from Lignin Nanoparticles. ACS Sustainable Chemistry and Engineering, 2018, 6, 9342-9351.	6.7	154
15	The early oxidative biodegradation steps of residual kraft lignin models with laccase. Bioorganic and Medicinal Chemistry, 1998, 6, 2161-2169.	3.0	127
16	Immobilized methyltrioxo rhenium (MTO)/H2O2 systems for the oxidation of lignin and lignin model compounds. Bioorganic and Medicinal Chemistry, 2006, 14, 5292-5302.	3.0	127
17	One-Pot TiO2-Catalyzed Synthesis of Nucleic Bases and Acyclonucleosides from Formamide: Implications for the Origin of Life. ChemBioChem, 2003, 4, 514-521.	2.6	122
18	Formamide Chemistry and the Origin of Informational Polymers. Chemistry and Biodiversity, 2007, 4, 694-720.	2.1	118

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19	Isolation and Characterization of Organosolv and Alkaline Lignins from Hardwood and Softwood Biomass. ACS Sustainable Chemistry and Engineering, 2016, 4, 5181-5193.	6.7	113
20	Nucleoside Phosphorylation by Phosphate Minerals. Journal of Biological Chemistry, 2007, 282, 16729-16735.	3.4	110
21	Methyltrioxorhenium: a new catalyst for the activation of hydrogen peroxide to the oxidation of lignin and lignin model compounds. Bioorganic and Medicinal Chemistry, 2005, 13, 2569-2578.	3.0	109
22	The biodegradation of recalcitrant effluents from an olive mill by a white-rot fungus. Journal of Biotechnology, 1998, 61, 209-218.	3.8	102
23	Tailoring the molecular and thermoâ€“mechanical properties of kraft lignin by ultrafiltration. Journal of Applied Polymer Science, 2014, 131, .	2.6	99
24	Singlet oxygen in the photodegradation of lignin models. Tetrahedron, 1997, 53, 7877-7888.	1.9	94
25	Fractionation of industrial lignins: opportunities and challenges. Green Chemistry, 2020, 22, 4722-4746.	9.0	91
26	Production and isolation of chitosan by submerged and solid-state fermentation fromLentinus edodes. Biotechnology and Bioengineering, 1996, 50, 207-210.	3.3	90
27	On the propensity of lignin to associate: A size exclusion chromatography study with lignin derivatives isolated from different plant species. Phytochemistry, 2007, 68, 2570-2583.	2.9	88
28	Synthesis and Degradation of Nucleobases and Nucleic Acids by Formamide in the Presence of Montmorillonites. ChemBioChem, 2004, 5, 1558-1566.	2.6	87
29	Metalloporphyrins immobilized on motmorillonite as biomimetic catalysts in the oxidation of lignin model compounds. Journal of Molecular Catalysis A, 2004, 208, 195-202.	4.8	86
30	Efficient oxidation of thiophene derivatives with homogeneous and heterogeneous MTO/H2O2 systems: A novel approach for, oxidative desulfurization (ODS) of diesel fuel. Applied Catalysis B: Environmental, 2009, 89, 239-245.	20.2	85
31	Advances in the Prebiotic Synthesis of Nucleic Acids Bases: Implications for the Origin of Life. Current Organic Chemistry, 2004, 8, 1425-1443.	1.6	83
32	On the Mechanism of the Laccaseâ€“Mediator System in the Oxidation of Lignin. Chemistry - A European Journal, 2003, 9, 5371-5378.	3.3	81
33	Synthesis and Degradation of Nucleic Acid Components by Formamide and Iron Sulfur Minerals. Journal of the American Chemical Society, 2008, 130, 15512-15518.	13.7	81
34	Formamide as the main building block in the origin of nucleic acids. BMC Evolutionary Biology, 2007, 7, S1.	3.2	79
35	A New Efficient and Mild Synthesis of 2-Sxindoles by One-Pot Wolff-Kishner Like Reduction of Isatin Derivatives. Synthetic Communications, 1994, 24, 2835-2841.	2.1	76
36	Gel Permeation Chromatography in Determining Molecular Weights of Lignins: Critical Aspects Revisited for Improved Utility in the Development of Novel Materials. ACS Sustainable Chemistry and Engineering, 2016, 4, 5167-5180.	6.7	75

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37	Archaeological wood characterisation by PY/GC/MS, GC/MS, NMR and GPC techniques. Microchemical Journal, 2007, 85, 164-173.	4.5	72
38	Reversible crosslinking of lignin via the furanâ€“maleimide Dielsâ€“Alder reaction. Green Chemistry, 2015, 17, 4991-5000.	9.0	71
39	Oxidation of unsaturated monoterpenes with hydrogen peroxide catalysed by manganese(III) porphyrin complexes. Journal of Molecular Catalysis A, 2001, 172, 33-42.	4.8	68
40	Coordination Complexes and One-Step Assembly of Lignin for Versatile Nanocapsule Engineering. ACS Sustainable Chemistry and Engineering, 2016, 4, 5194-5203.	6.7	67
41	Synthesis and Degradation of Nucleic Acid Components by Formamide and Cosmic Dust Analogues. ChemBioChem, 2005, 6, 1368-1374.	2.6	64
42	Biomimetic degradation of lignin and lignin model compounds by synthetic anionic and cationic water soluble manganese and iron porphyrins. Bioorganic and Medicinal Chemistry, 1999, 7, 1897-1905.	3.0	62
43	From formamide to RNA: the roles of formamide and water in the evolution of chemical information. Research in Microbiology, 2009, 160, 441-448.	2.1	61
44	QUANTITATIVE HSQC ANALYSES OF LIGNIN: A PRACTICAL COMPARISON. Computational and Structural Biotechnology Journal, 2013, 6, e201303016.	4.1	59
45	Lignin Structural Changes During Liquefaction in Acidified Ethylene Glycol. Journal of Wood Chemistry and Technology, 2012, 32, 342-360.	1.7	57
46	Origin of Informational Polymers: The Concurrent Roles of Formamide and Phosphates. ChemBioChem, 2006, 7, 1707-1714.	2.6	56
47	Hydrolysis efficiency and enzyme adsorption on steam-pretreated spruce in the presence of poly(ethylene glycol). Enzyme and Microbial Technology, 2010, 47, 84-90.	3.2	56
48	Lignin behaviour during wood liquefactionâ€"Characterization by quantitative 31P, 13C NMR and size-exclusion chromatography. Catalysis Today, 2010, 156, 23-30.	4.4	52
49	Mechanism of the positive effect of poly(ethylene glycol) addition in enzymatic hydrolysis of steam pretreated lignocelluloses. Comptes Rendus - Biologies, 2011, 334, 812-823.	0.2	52
50	Tannin Structural Elucidation and Quantitative 31P NMR Analysis. 2. Hydrolyzable Tannins and Proanthocyanidins. Journal of Agricultural and Food Chemistry, 2013, 61, 9316-9324.	5.2	52
51	Synthesis, Biological Evaluation, and Pharmacophore Generation of Uracil, 4(3H)-Pyrimidinone, and Uridine Derivatives as Potent and Selective Inhibitors of Parainfluenza 1 (Sendai) Virus. Journal of Medicinal Chemistry, 2001, 44, 4554-4562.	6.4	50
52	Fractional Precipitation of Wheat Straw Organosolv Lignin: Macroscopic Properties and Structural Insights. ACS Sustainable Chemistry and Engineering, 2016, 4, 5136-5151.	6.7	49
53	Photodegradation of lignin: the role of singlet oxygen. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 101, 69-73.	3.9	48
54	A novel and efficient catalytic epoxidation of olefins and monoterpenes with microencapsulated Lewis base adducts of methyltrioxorhenium. Tetrahedron, 2005, 61, 1069-1075.	1.9	47

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55	Origin of Informational Polymers. Journal of Biological Chemistry, 2006, 281, 5790-5796.	3.4	45
56	Oxidative functionalisation of lignin by layer-by-layer immobilised laccases and laccase microcapsules. Applied Catalysis A: General, 2010, 372, 115-123.	4.3	45
57	Novel multienzyme oxidative biocatalyst for lignin bioprocessing. Bioorganic and Medicinal Chemistry, 2011, 19, 5071-5078.	3.0	45
58	Tannin Structural Elucidation and Quantitative ³¹P NMR Analysis. 1. Model Compounds. Journal of Agricultural and Food Chemistry, 2013, 61, 9307-9315.	5.2	45
59	Mechanism of Degradation of Purine Nucleosides by Formamide. Implications for Chemical DNA Sequencing Proceduresâ€. Journal of the American Chemical Society, 1996, 118, 5615-5619.	13.7	43
60	Structural modifications induced during biodegradation of wheat lignin by Lentinula edodes. Bioorganic and Medicinal Chemistry, 1998, 6, 967-973.	3.0	42
61	The Effects of Borate Minerals on the Synthesis of Nucleic Acid Bases, Amino Acids and Biogenic Carboxylic Acids from Formamide. Origins of Life and Evolution of Biospheres, 2011, 41, 317-330.	1.9	42
62	On the Prebiotic Synthesis of Nucleobases, Nucleotides, Oligonucleotides, Pre-RNA and Pre-DNA Molecules. , 0, , 29-68.		39
63	Layer-by-Layer coated tyrosinase: An efficient and selective synthesis of catechols. Bioorganic and Medicinal Chemistry, 2012, 20, 157-166.	3.0	38
64	Detailed Chemical Composition of Condensed Tannins via Quantitative ³¹P NMR and HSQC Analyses: Acacia catechu, Schinopsis balansae, and Acacia mearnsii. Journal of Natural Products, 2016, 79, 2287-2295.	3.0	38
65	Structural changes of lignin in biorefinery pretreatments and consequences to enzyme-lignin interactions - OPEN ACCESS. Nordic Pulp and Paper Research Journal, 2017, 32, 550-571.	0.7	38
66	Selective Oxidation of Uracil and Adenine Derivatives by the Catalytic System MeReO3/H2O2 and MeReO3/Urea Hydrogen Peroxide. Tetrahedron, 2000, 56, 10031-10037.	1.9	37
67	19F Nuclear Magnetic Resonance Spectroscopy for the Quantitative Detection and Classification of Carbonyl Groups in Lignins. Journal of Agricultural and Food Chemistry, 1999, 47, 190-201.	5.2	36
68	The Role of the Formamide/Zirconia System in the Synthesis of Nucleobases and Biogenic Carboxylic Acid Derivatives. Journal of Molecular Evolution, 2010, 71, 100-110.	1.8	36
69	Veratryl alcohol oxidation by manganese-dependent peroxidase from Lentinus edodes. Journal of Biotechnology, 1996, 48, 231-239.	3.8	35
70	Modification of Kraft Lignin to Expose Diazobenzene Groups: Toward pH- and Light-Responsive Biobased Polymers. Biomacromolecules, 2015, 16, 2979-2989.	5.4	35
71	Catalytic effects of Murchison Material: Prebiotic Synthesis and Degradation of RNA Precursors. Origins of Life and Evolution of Biospheres, 2011, 41, 437-451.	1.9	34
72	About a Formamide-Based Origin of Informational Polymers: Syntheses of Nucleobases and Favourable Thermodynamic Niches for Early Polymers. Origins of Life and Evolution of Biospheres, 2006, 36, 523-531.	1.9	33

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73	A novel and efficient catalytic epoxidation of monoterpenes by homogeneous and heterogeneous methyltrioxorhenium in ionic liquids. Applied Catalysis A: General, 2009, 360, 171-176.	4.3	33
74	The Immobilized Porphyrin-Mediator System Mn(TMePyP)/clay/HBT (clay-PMS): A Lignin Peroxidase Biomimetic Catalyst in the Oxidation of Lignin and Lignin Model Compounds. European Journal of Inorganic Chemistry, 2004, 2004, 4477-4483.	2.0	32
75	Methyltrioxorhenium-Catalyzed Epoxidation-Methanolysis of Glycals under Homogeneous and Heterogeneous Conditions. Advanced Synthesis and Catalysis, 2006, 348, 476-486.	4.3	30
76	Studies on the chemistry of pyrimidine derivatives with dimethyldioxirane: synthesis, cytotoxic effect and antiviral activity of new 5,6-oxiranyl-5,6-dihydro and 5-hydroxy-5,6-dihydro-6-substituted uracil derivatives and pyrimidine nucleosides. Tetrahedron, 1995, 51, 7561-7578.	1.9	29
77	Transformations of thiopyrimidine and thiopurine nucleosides following oxidation with dimethyldioxirane. Tetrahedron, 1996, 52, 6759-6780.	1.9	29
78	Efficient and selective oxidation of methyl substituted cycloalkanes by heterogeneous methyltrioxorheniumâ€“hydrogen peroxide systems. Tetrahedron, 2006, 62, 12326-12333.	1.9	29
79	Structural and Thermal Characterization of Novel Organosolv Lignins from Wood and Herbaceous Sources. Processes, 2020, 8, 860.	2.8	29
80	A new and efficient synthesis of 8-hydroxypurine derivatives by dimethyldioxirane oxidation. Tetrahedron Letters, 1995, 36, 2665-2668.	1.4	28
81	Advances and Challenges in the Synthesis of Highly Oxidised Natural Phenols with Antiviral, Antioxidant and Cytotoxic Activities. Current Medicinal Chemistry, 2008, 15, 1500-1519.	2.4	28
82	Catalytic MTO-based Câ€“H insertion reactions of hydrogen peroxide: an investigation on the polymeric support role in heterogeneous conditions. Topics in Catalysis, 2006, 40, 221-227.	2.8	27
83	A Study of the Effect of Kosmotropic and Chaotropic Ions on the Release Characteristics of Lignin Microcapsules under Stimuli-Responsive Conditions. ACS Omega, 2019, 4, 6979-6993.	3.5	27
84	Lignosulfonate Microcapsules for Delivery and Controlled Release of Thymol and Derivatives. Molecules, 2020, 25, 866.	3.8	27
85	Reactivity of lithium trimethylsilyldiazomethane and diazomethane toward the 5,6-double bond of uracil and uridine derivatives. Tetrahedron, 1997, 53, 7045-7056.	1.9	25
86	Origin of Informational Polymers. Journal of Biological Chemistry, 2005, 280, 35658-35669.	3.4	25
87	A novel and efficient oxidative functionalization of lignin by layer-by-layer immobilised Horseradish peroxidase. Bioorganic and Medicinal Chemistry, 2011, 19, 440-447.	3.0	25
88	Aqueous plant extracts as stimulators of laccase production in liquid cultures of Lentinus edodes. Biotechnology Letters, 1996, 10, 243.	0.5	24
89	A Novel and Efficient Synthesis of Tocopheryl Quinones by Homogeneous and Heterogeneous Methyltrioxorhenium/Hydrogen Peroxide Catalytic Systems. Advanced Synthesis and Catalysis, 2008, 350, 321-331.	4.3	24
90	Characterisation of archaeological wood: A case study on the deterioration of a coffin. Microchemical Journal, 2009, 92, 150-154.	4.5	24

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91	A Perspective on Lignin Refining, Functionalization, and Utilization. ACS Sustainable Chemistry and Engineering, 2016, 4, 5089-5089.	6.7	23
92	Synthesis of nano- and microstructures from proanthocyanidins, tannic acid and epigallocatechin-3-O-gallate for active delivery. Green Chemistry, 2017, 19, 5074-5091.	9.0	23
93	Mechanism of degradation of 2â€²-deoxycytidine by formamide: Implications for chemical DNA sequencing procedures. Bioorganic and Medicinal Chemistry, 1997, 5, 2041-2048.	3.0	22
94	N-Doped Carbon Dot Hydrogels from Brewing Waste for Photocatalytic Wastewater Treatment. ACS Omega, 2022, 7, 4052-4061.	3.5	22
95	The reactivity of phenolic and non-phenolic residual kraft lignin model compounds with Mn(II)-peroxidase from Lentinula edodes. Bioorganic and Medicinal Chemistry, 2000, 8, 433-438.	3.0	21
96	Stimuliâ€Responsive Tanninâ€“Fe^{III} Hybrid Microcapsules Demonstrated by the Active Release of an Antiâ€Tuberculosis Agent. ChemSusChem, 2018, 11, 3975-3991.	6.8	21
97	A novel and efficient catalytic epoxidation of olefins with adducts derived from methyltrioxorhenium and chiral aliphatic amines. Journal of Catalysis, 2008, 257, 262-269.	6.2	20
98	Molecular Complexity Favors the Evolution of Ribopolymers. Biochemistry, 2008, 47, 2732-2742.	2.5	20
99	Role of clays in the prebiotic synthesis of sugar derivatives from formamide. Philosophical Magazine, 2010, 90, 2329-2337.	1.6	20
100	Sustainable Strategies in the Synthesis of Lignin Nanoparticles for the Release of Active Compounds: A Comparison. ChemSusChem, 2020, 13, 4759-4767.	6.8	20
101	Biorefineries. , 2015, , .		20
102	Influence of TiO2 on prebiotic thermal synthesis of the Gly-Gln polymer. Amino Acids, 2012, 42, 2079-2088.	2.7	19
103	Dye Degradation by Layerâ€byâ€Layer Immobilised Peroxidase/Redox Mediator Systems. ChemCatChem, 2013, 5, 1407-1415.	3.7	19
104	Ozonation of thionucleosides. A new chemical transformation of 4-thiouracil and 6-thioguanine nucleosides to cytosine and adenosine counterparts. Tetrahedron, 1995, 51, 3607-3616.	1.9	18
105	A novel and efficient synthesis of highly oxidized lignans by a methyltrioxorhenium/hydrogen peroxide catalytic system. Studies on their apoptogenic and antioxidant activity. Bioorganic and Medicinal Chemistry, 2009, 17, 5676-5682.	3.0	18
106	Characterization of Organosolv Birch Lignins: Toward Application-Specific Lignin Production. ACS Omega, 2021, 6, 4374-4385.	3.5	18
107	Oxidation and aromatic ring cleavage of 4-methoxy and 3,4-dimethoxycennamic acid by Lentinus edodes. Biotechnology Letters, 1994, 16, 995-1000.	2.2	17
108	An Efficient and Selective Epoxidation of Olefins with Novel Methyltrioxorhenium/(Fluorous) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	4.3	17

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109	Borate Minerals and RNA Stability. Polymers, 2010, 2, 211-228.	4.5	17
110	Case Study in Kraft Lignin Fractionation: â€œStructurally Purifiedâ€•Lignin Fractionsâ€”The Role of Solvent H-Bonding Affinity. ACS Sustainable Chemistry and Engineering, 2020, 8, 16803-16813.	6.7	17
111	Ozonation of substituted 2-thiouracils and pyrimidine-2-thione. Tetrahedron Letters, 1993, 34, 1631-1634.	1.4	16
112	Dimethyldioxirane oxidations: A new and efficient desulfurization of thiopyrimidine and thiopurine nucleosides.. Tetrahedron Letters, 1993, 34, 7785-7788.	1.4	16
113	Understanding the radical mechanism of lipoxygenases using 31P NMR spin trapping. Bioorganic and Medicinal Chemistry, 2011, 19, 3022-3028.	3.0	16
114	A new and efficient synthesis of cytidine and adenosine derivatives by dimethyldioxirane oxidation of thiopyrimidine and thiopurine nucleosides. Journal of the Chemical Society Perkin Transactions 1, 1994, , 3053.	0.9	14
115	A potent and selective inhibition of parainfluenza 1 (Sendai) virus by new 6-oxiranyl-, 6-methyloxiranyluracils, and 4(3H)-pyrimidinone derivatives. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 1833-1838.	2.2	14
116	An Efficient and Stereoselective Dearylation of Asarinin and Sesamin Tetrahydrofurofuran Lignans to Acuminatolide by Methyltrioxorhenium/H2O2 and UHP Systems. Journal of Natural Products, 2007, 70, 39-42.	3.0	14
117	Molecularly imprinted conducting polymer for determination of a condensed lignin marker. Sensors and Actuators B: Chemical, 2019, 295, 186-193.	7.8	14
118	Advancements and Complexities in the Conversion of Lignocellulose Into Chemicals and Materials. Frontiers in Chemistry, 2020, 8, 797.	3.6	14
119	Manganese Tetraphenylporphyrin-Catalyzed Stereoselective Epoxidation of Thymidine Nucleosides. Journal of Organic Chemistry, 1999, 64, 5361-5365.	3.2	13
120	Ionic liquids in methyltrioxorhenium catalyzed epoxidationâ€“methanolysis of glycals under homogeneous and heterogeneous conditions. Journal of Molecular Catalysis A, 2008, 284, 108-115.	4.8	13
121	Aromatic ring oxidation of vanillyl and veratryl alcohols by Lentinus edodes: possible artifacts in the lignin peroxidase and veratryl alcohol oxidase assays. Journal of Biotechnology, 1995, 39, 175-179.	3.8	12
122	Chemoenzymatic Fractionation and Characterization of Pretreated Birch Outer Bark. ACS Sustainable Chemistry and Engineering, 2016, 4, 5289-5302.	6.7	12
123	Lignin Fractionation in Segmented Continuous Flow. ChemSusChem, 2020, 13, 4735-4742.	6.8	12
124	Facile Isolation of LCC-Fraction from Organosolv Lignin by Simple Soxhlet Extraction. Polymers, 2019, 11, 225.	4.5	11
125	Selective Synthesis of DOPA and DOPA Peptides by Native and Immobilized Tyrosinase in Organic Solvent. ChemPlusChem, 2013, 78, 325-330.	2.8	10
126	Characterization of Eucalyptus nitens Lignins Obtained by Biorefinery Methods Based on Ionic Liquids. Molecules, 2020, 25, 425.	3.8	10

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127	An unexpected and efficient direct nucleophilic C-4 hydroxy substitution on 2-methoxy- and 2-methylthio-4(3)-pyrimidinones bearing a diethylamino moiety on the C-6 side chain. Tetrahedron Letters, 1997, 38, 8249-8252.	1.4	9
128	Lignin for Nanoâ€•and Microscaled Carrier Systems: Applications, Trends, and Challenges. ChemSusChem, 2019, 12, 2038-2038.	6.8	9
129	Manganese and iron tetraphenylporphyrin-catalyzed oxidation of a cardanol derivative (hydrogenated) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	8
130	Origin of Informational Polymers and the Search for Non-Terran Life: Protection of the Polymeric State of DNA by Phosphate Minerals. Astrobiology, 2007, 7, 616-630.	3.0	8
131	A novel and efficient immobilised tannase coated by the layer-by-layer technique in the hydrolysis of gallotannins and ellagitannins. Microchemical Journal, 2015, 123, 139-147.	4.5	8
132	Lipoxygenase: Unprecedented Carbon-Centered Lignin Activation. ACS Sustainable Chemistry and Engineering, 2018, 6, 5085-5096.	6.7	8
133	Functionalized Organosolv Lignins Suitable for Modifications of Hard Surfaces. ACS Sustainable Chemistry and Engineering, 2020, 8, 7628-7638.	6.7	7
134	Umpolung of Reactivity of Lithium Trimethylsilyldiazomethane at the C-5 Position of 6-Substituted Uracil Derivatives. European Journal of Organic Chemistry, 1999, 1999, 2751-2755.	2.4	6
135	A Novel Synthesis of Biomolecular Precursors. , 2004, , 393-413.		6
136	An Analytical Toolbox for Fast and Straightforward Structural Characterisation of Commercially Available Tannins. Molecules, 2021, 26, 2532.	3.8	6
137	Ozonation of Thioamide Containing Heterocycles. A New General and Selective Procedure for the Synthesis of C-2 Substituted Heteroazole Derivatives. Synthetic Communications, 1996, 26, 3241-3251.	2.1	5
138	Biodegradation of Monomeric, Dimeric and Polymeric Lignin Models byLentinus edodes. Holzforschung, 1996, 50, 193-200.	1.9	5
139	Chemical Derivatization of Commercially Available Condensed and Hydrolyzable Tannins. ACS Sustainable Chemistry and Engineering, 2021, 9, 10154-10166.	6.7	5
140	Simple Strategies to Modulate the pH-Responsiveness of Lignosulfonate-Based Delivery Systems. Materials, 2022, 15, 1857.	2.9	5
141	Manganese Tetraphenylporphyrins Catalyzed Selective Oxidation of Purine Derivatives. Nucleosides & Nucleotides, 1999, 18, 1123-1124.	0.5	4
142	A Biomimetic Approach to Lignin Degradation. ACS Symposium Series, 2001, , 212-225.	0.5	4
143	On the Role of 1-Hydroxybenzotriazole as Mediator in Laccase Oxidation of Residual Kraft Lignin. ACS Symposium Series, 2001, , 373-390.	0.5	4
144	Chapter 15. Lignin Analytics. RSC Energy and Environment Series, 2018, , 413-476.	0.5	4

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145	Oxidation of adenine and adenosine derivatives by dimethyldioxirane (DMDO) using halogenated metalloporphyrins as catalysts. Journal of Molecular Catalysis A, 2004, 214, 219-225.	4.8	3
146	Identification and quantification of radical species by 31P NMR-based spin trapping â€" A case study: NH4OH/H2O2-based hair bleaching. Microchemical Journal, 2015, 121, 112-121.	4.5	3
147	Biomimetic Vanadate and Molybdate Systems for Oxidative Upgrading of Iono- and Organosolv Hard- and Softwood Lignins. Processes, 2020, 8, 1161.	2.8	3
148	Deposition Efficacy of Natural and Synthetic Antioxidants on Fabrics. Applied Sciences (Switzerland), 2020, 10, 6213.	2.5	3
149	Metalloporphyrins in the Biomimetic Oxidation of Lignin and Lignin Model Compounds: Development of Alternative Delignification Strategies. , 2003, , 161-203.		2
150	Quantitative ³¹P NMR Analysis of Lignins and Tannins. Journal of Visualized Experiments, 2021, , .	0.3	2
151	8 Conversion of lignin: chemical technologies and biotechnologies â€" oxidative strategies in lignin upgrade. , 2012, , 167-206.		1
152	Sulfited Tannin Capsules: Novel Stimuli-Responsive Delivery Systems. ACS Omega, 2021, 6, 13192-13203.	3.5	1
153	Formamide in non-life/life transition. Physics of Life Reviews, 2012, 9, 121-123.	2.8	0
154	11. Lignin biorefinery: structure, pretreatment and use. , 2015, , 257-282.		0
155	Ultrasound-Assisted Functionalization of Polyphenols. , 2016, , 995-1020.		0
156	Bio-based chemicals: general discussion. Faraday Discussions, 2017, 202, 227-245.	3.2	0
157	Conversion technologies: general discussion. Faraday Discussions, 2017, 202, 371-389.	3.2	0
158	Ultrasound Functionalization of Polyphenols. , 2015, , 1-26.		0
159	Ultrasound-Assisted Functionalization of Polyphenols. , 2016, , 1-26.		0