David L Compton

List of Publications by Year
in descending order

58 papers	1,756 citations	331259 21 h-index	276539 41 g-index
58 all docs	58 docs citations	58 times ranked	1759 citing authors

#	Article	IF	Citations
1	?-Chymotrypsin catalysis in imidazolium-based ionic liquids. Biotechnology and Bioengineering, 2001, 75, 181-186.	1.7	209
2	Screening heterogeneous catalysts for the pyrolysis of lignin. Journal of Analytical and Applied Pyrolysis, 2009, 85, 226-230.	2.6	171
3	Comparison of peroxidase activities of hemin, cytochrome c and microperoxidase-11 in molecular solvents and imidazolium-based ionic liquids. Journal of Molecular Catalysis B: Enzymatic, 2002, 18, 109-120.	1.8	161
4	Lipase-catalyzed synthesis of ferulate esters. JAOCS, Journal of the American Oil Chemists' Society, 2000, 77, 513-519.	0.8	139
5	Acyl Migration Kinetics of Vegetable Oil 1,2â€Diacylglycerols. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 307-312.	0.8	84
6	tert-Butyl-Substituted Poly(ferrocenylene persulfides). Organometallics, 1994, 13, 4367-4376.	1.1	82
7	Packed-bed bioreactor synthesis of feruloylated monoacyl- and diacylglycerols: clean production of a â€œgreenâ€•sunscreen. Green Chemistry, 2003, 5, 382-386.	4.6	73
8	Acyl Migration Kinetics of 2-Monoacylglycerols from Soybean Oil via 1H NMR. JAOCS, Journal of the American Oil Chemists' Society, 2007, 84, 343-348.	0.8	71
9	Co-pyrolysis of swine manure with agricultural plastic waste: Laboratory-scale study. Waste Management, 2014, 34, 1520-1528.	3.7	65
10	Antioxidant properties of feruloyl glycerol derivatives. Industrial Crops and Products, 2012, 36, 217-221.	2.5	51
11	Organometallic Polymers Based on S-S and Se-Se Linked n-Butylferrocenes. Chemistry of Materials, 1995, 7, 2342-2349.	3.2	45
12	Enzymatic glycerolysis and transesterification of vegetable oil for enhanced production of feruloylated glycerols. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 765-770.	0.8	45
13	Catalytic pyrolysis of oak via pyroprobe and bench scale, packed bed pyrolysis reactors. Journal of Analytical and Applied Pyrolysis, 2011, 90, 174-181.	2.6	41
14	Identification and quantification of feruloylated mono-, di-, and triacylglycerols from vegetable oils. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 753-758.	0.8	38
15	Evaluation of Soyscreen in an Oil-Based Formulation for UV Protection of <I>Beauveria bassiana</I> Conidia. Journal of Economic Entomology, 2009, 102, 1759-1766.	0.8	31
16	Lipase-catalyzed synthesis of triolein-based sunscreens in supercritical CO2. JAOCS, Journal of the American Oil Chemists' Society, 2001, 78, 43-47.	0.8	30
17	Starch-encapsulated, soy-based, ultraviolet-absorbing composites with feruloylated monoacyl- and diacylglycerol lipids. Industrial Crops and Products, 2007, 25, 17-23.	2.5	29
18	Purification of 1,2-diacylglycerols from vegetable oils: Comparison of molecular distillation and liquid CO2 extraction. Industrial Crops and Products, 2008, 28, 113-121.	2.5	29

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19	Synthesis and Tribological Investigation of Lipoyl Glycerides. Journal of Agricultural and Food Chemistry, 2014, 62, 2233-2243.	2.4	27
20	Feruloyl esterase hydrolysis and recovery of ferulic acid from jojoba meal. Industrial Crops and Products, 2006, 23, 46-53.	2.5	25
21	Formation of inclusion complexes between high amylose starch and octadecyl ferulate via steam jet cooking. Carbohydrate Polymers, 2016, 140, 246-252.	5.1	23
22	Lipoate Ester Multifunctional Lubricant Additives. Industrial & Engineering Chemistry Research, 2016, 55, 373-383.	1.8	21
23	1,3-Diferuloyl-sn-glycerol from the biocatalytic transesterification of ethyl 4-hydroxy-3-methoxy cinnamic acid (ethyl ferulate) and soybean oil. Biotechnology Letters, 2009, 31, 889-896.	1.1	20
24	Influence of Fatty Acid Desaturation on Spontaneous Acyl Migration in 2â€Monoacylglycerols. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 2259-2267.	0.8	20
25	ansa-Ferrocenes with both Trisulfide and Hydrocarbon Straps. Organometallics, 1998, 17, 2702-2706.	1.1	17
26	Medium-chain alkyl esters of tyrosol and hydroxytyrosol antioxidants by cuphea oil transesterification. European Journal of Lipid Science and Technology, 2013, 115, 363-371.	1.0	17
27	Cinnamoyl esters of lesquerella and castor oil: Novel sunscreen active ingredients. JAOCS, Journal of the American Oil Chemists' Society, 2004, 81, 945-951.	0.8	13
28	Influence of Solid Supports on Acyl Migration in 2â€Monoacylglycerols: Purification of 2â€MAG via Flash Chromatography. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 1397-1403.	0.8	13
29	Determination of ochratoxin A in grape juice and wine using nanosponge solid phase extraction clean-up and liquid chromatography with fluorescence detection. Journal of Liquid Chromatography and Related Technologies, 2018, 41, 949-954.	0.5	12
30	Dihydrolipoyl dioleoylglycerol antioxidant capacity in phospholipid vesicles. Chemistry and Physics of Lipids, 2012, 165, 160-168.	1.5	11
31	Hydroxytyrosol and tyrosol esters partitioning into, location within, and effect on DOPC liposome bilayer behavior. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1175-1182.	1.4	11
32	Continuous, packed-bed, enzymatic bioreactor production and stability of feruloyl soy glycerides. Industrial Crops and Products, 2015, 77, 787-794.	2.5	11
33	Feruloylated Products from Coconut Oil and Shea Butter. JAOCS, Journal of the American Oil Chemists' Society, 2017, 94, 397-411.	0.8	10
34	Phosphatidyl-hydroxytyrosol and phosphatidyl-tyrosol bilayer properties. Chemistry and Physics of Lipids, 2017, 202, 69-76.	1.5	9
35	Protection of Antioxidants, Vitamins E and C, from Ultraviolet Degradation using Feruloylated Vegetable Oil. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 999-1009.	0.8	9
36	Synthesis, Purification, and Acyl Migration Kinetics of 2â€Monoricinoleoylglycerol. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 271-279.	0.8	8

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37	Ultraviolet Absorbing Efficacy and Photostability of Feruloylated Soybean Oil. JAOCS, Journal of the American Oil Chemists' Society, 2018, 95, 421-431.	0.8	8
38	Chymotrypsin-Catalyzed Transesterification in Ionic Liquids and Ionic Liquid/Supercritical Carbon Dioxide. ACS Symposium Series, 2002, , 387-398.	0.5	7
39	Purification of 2-Monoacylglycerols Using Liquid CO2 Extraction. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1529.	0.8	7
40	Raman spectral analysis for rapid determination of zearalenone and alpha-zearalanol. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120842.	2.0	6
41	Phenylpropanoid esters of lesquerella and castor oil. Industrial Crops and Products, 2015, 63, 9-16.	2.5	5
42	Feruloyl glycerol and 1,3-diferuloyl glycerol antioxidant behavior in phospholipid vesicles. Chemistry and Physics of Lipids, 2016, 195, 1-11.	1.5	5
43	Quantitative structure-activity relationship study for prediction of antifungal properties of phenolic compounds. Structural Chemistry, 2020, 31, 1621-1630.	1.0	5
44	Preservation of polyunsaturated fatty acyl glycerides via intramolecular antioxidant coupling. Chemistry and Physics of Lipids, 2012, 165, 530-536.	1.5	4
45	Phenol Esterase Activity of Porcine Skin. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 89, 175-181.	2.0	4
46	Experimental and theoretical study of the influence of water on hydrolyzed product formation during the feruloylation of vegetable oil. Journal of the Science of Food and Agriculture, 2017, 97, 3022-3029.	1.7	4
47	Development and Physical Characterization of Î±-Glucan Nanoparticles. Molecules, 2020, 25, 3807.	1.7	4
48	Sub- and Near-Critical Hydrothermal Carbonization of Animal Manures. Sustainability, 2022, 14, 5052.	1.6	4
49	Heterogeneous Catalytic Esterification of Ï‰â€Sulfhydryl Fatty Acids: Avoidance of Thioethers, Thioesters, and Disulfides. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1799-1805.	0.8	3
50	Octadecyl ferulate behavior in 1,2-Dioleoylphosphocholine liposomes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 333-343.	2.0	3
51	Spectroscopic and time-dependent density functional investigation of the role of structure on the acid-base effects of citrinin detection. Structural Chemistry, 2018, 29, 715-723.	1.0	3
52	Glycerol acyl-transfer kinetics of a circular permutated Candida antarctica lipase B. Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 175-180.	1.8	2
53	Stability of a liposomal formulation containing lipoyl or dihydrolipoyl acylglycerides. Journal of Liposome Research, 2014, 24, 304-312.	1.5	2
54	Determination of pH Effects on Phosphatidyl-Hydroxytyrosol and Phosphatidyl-Tyrosol Bilayer Behavior. Methods and Protocols, 2018, 1, 41.	0.9	2

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55	Rapid Raman spectroscopic determination of 1-feruloyl-sn-glycerol and 1,3-diferuloyl-sn-glycerol. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 229, 118020.	2.0	2
56	Enzymatic Synthesis and Flash Chromatography Separation of 1,3-Diferuloyl-sn-Glycerol and 1-Feruloyl-sn-Glycerol. Methods and Protocols, 2020, 3, 8.	0.9	2
57	Predictive Quantitative Structureâ€“Activity Relationship Modeling of the Antifungal and Antibiotic Properties of Triazolothiadiazine Compounds. Methods and Protocols, 2021, 4, 2.	0.9	2
58	Charged phospholipid effects on AAPH oxidation assay as determined using liposomes. Chemistry and Physics of Lipids, 2019, 220, 49-56.	1.5	1