

David L Compton

List of Publications by Year in descending order

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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	Raman spectral analysis for rapid determination of zearalenone and alpha-zearalanol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120842.	2.0	6
2	Sub- and Near-Critical Hydrothermal Carbonization of Animal Manures. <i>Sustainability</i> , 2022, 14, 5052.	1.6	4
3	Predictive Quantitative Structure-Activity Relationship Modeling of the Antifungal and Antibiotic Properties of Triazolothiadiazine Compounds. <i>Methods and Protocols</i> , 2021, 4, 2.	0.9	2
4	Rapid Raman spectroscopic determination of 1-feruloyl-sn-glycerol and 1,3-diferuloyl-sn-glycerol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 118020.	2.0	2
5	Development and Physical Characterization of β -Glucan Nanoparticles. <i>Molecules</i> , 2020, 25, 3807.	1.7	4
6	Quantitative structure-activity relationship study for prediction of antifungal properties of phenolic compounds. <i>Structural Chemistry</i> , 2020, 31, 1621-1630.	1.0	5
7	Enzymatic Synthesis and Flash Chromatography Separation of 1,3-Diferuloyl-sn-Glycerol and 1-Feruloyl-sn-Glycerol. <i>Methods and Protocols</i> , 2020, 3, 8.	0.9	2
8	Protection of Antioxidants, Vitamins E and C, from Ultraviolet Degradation using Feruloylated Vegetable Oil. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2019, 96, 999-1009.	0.8	9
9	Charged phospholipid effects on AAPH oxidation assay as determined using liposomes. <i>Chemistry and Physics of Lipids</i> , 2019, 220, 49-56.	1.5	1
10	Determination of pH Effects on Phosphatidyl-Hydroxytyrosol and Phosphatidyl-Tyrosol Bilayer Behavior. <i>Methods and Protocols</i> , 2018, 1, 41.	0.9	2
11	Determination of ochratoxin A in grape juice and wine using nanosponge solid phase extraction clean-up and liquid chromatography with fluorescence detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2018, 41, 949-954.	0.5	12
12	Ultraviolet Absorbing Efficacy and Photostability of Feruloylated Soybean Oil. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2018, 95, 421-431.	0.8	8
13	Spectroscopic and time-dependent density functional investigation of the role of structure on the acid-base effects of citrinin detection. <i>Structural Chemistry</i> , 2018, 29, 715-723.	1.0	3
14	Feruloylated Products from Coconut Oil and Shea Butter. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2017, 94, 397-411.	0.8	10
15	Experimental and theoretical study of the influence of water on hydrolyzed product formation during the feruloylation of vegetable oil. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 3022-3029.	1.7	4
16	Phosphatidyl-hydroxytyrosol and phosphatidyl-tyrosol bilayer properties. <i>Chemistry and Physics of Lipids</i> , 2017, 202, 69-76.	1.5	9
17	Formation of inclusion complexes between high amylose starch and octadecyl ferulate via steam jet cooking. <i>Carbohydrate Polymers</i> , 2016, 140, 246-252.	5.1	23
18	Lipoate Ester Multifunctional Lubricant Additives. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 373-383.	1.8	21

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19	Feruloyl glycerol and 1,3-diferuloyl glycerol antioxidant behavior in phospholipid vesicles. <i>Chemistry and Physics of Lipids</i> , 2016, 195, 1-11.	1.5	5
20	Octadecyl ferulate behavior in 1,2-Dioleoylphosphocholine liposomes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 333-343.	2.0	3
21	Phenol Esterase Activity of Porcine Skin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 175-181.	2.0	4
22	Hydroxytyrosol and tyrosol esters partitioning into, location within, and effect on DOPC liposome bilayer behavior. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1175-1182.	1.4	11
23	Continuous, packed-bed, enzymatic bioreactor production and stability of feruloyl soy glycerides. <i>Industrial Crops and Products</i> , 2015, 77, 787-794.	2.5	11
24	Phenylpropanoid esters of lesquerella and castor oil. <i>Industrial Crops and Products</i> , 2015, 63, 9-16.	2.5	5
25	Stability of a liposomal formulation containing lipoyl or dihydrolipoyl acylglycerides. <i>Journal of Liposome Research</i> , 2014, 24, 304-312.	1.5	2
26	Synthesis, Purification, and Acyl Migration Kinetics of 2- ω -Monoricinoleoylglycerol. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2014, 91, 271-279.	0.8	8
27	Synthesis and Tribological Investigation of Lipoyl Glycerides. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 2233-2243.	2.4	27
28	Co-pyrolysis of swine manure with agricultural plastic waste: Laboratory-scale study. <i>Waste Management</i> , 2014, 34, 1520-1528.	3.7	65
29	Influence of Solid Supports on Acyl Migration in 2- ω -Monoacylglycerols: Purification of 2- ω -MAG via Flash Chromatography. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1397-1403.	0.8	13
30	Medium-chain alkyl esters of tyrosol and hydroxytyrosol antioxidants by cuphea oil transesterification. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 363-371.	1.0	17
31	Purification of 2-Monoacylglycerols Using Liquid CO ₂ Extraction. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 1529.	0.8	7
32	Influence of Fatty Acid Desaturation on Spontaneous Acyl Migration in 2- ω -Monoacylglycerols. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 2259-2267.	0.8	20
33	Dihydrolipoyl dioleoylglycerol antioxidant capacity in phospholipid vesicles. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 160-168.	1.5	11
34	Preservation of polyunsaturated fatty acyl glycerides via intramolecular antioxidant coupling. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 530-536.	1.5	4
35	Antioxidant properties of feruloyl glycerol derivatives. <i>Industrial Crops and Products</i> , 2012, 36, 217-221.	2.5	51
36	Glycerol acyl-transfer kinetics of a circularly permuted <i>Candida antarctica</i> lipase B. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 175-180.	1.8	2

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37	Catalytic pyrolysis of oak via pyroprobe and bench scale, packed bed pyrolysis reactors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 174-181.	2.6	41
38	Heterogeneous Catalytic Esterification of α -Sulfhydryl Fatty Acids: Avoidance of Thioethers, Thioesters, and Disulfides. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2011, 88, 1799-1805.	0.8	3
39	Evaluation of Soyscreen in an Oil-Based Formulation for UV Protection of <i>Beauveria bassiana</i> and <i>Conidia</i> . <i>Journal of Economic Entomology</i> , 2009, 102, 1759-1766.	0.8	31
40	Screening heterogeneous catalysts for the pyrolysis of lignin. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 85, 226-230.	2.6	171
41	1,3-Diferuloyl-sn-glycerol from the biocatalytic transesterification of ethyl 4-hydroxy-3-methoxy cinnamic acid (ethyl ferulate) and soybean oil. <i>Biotechnology Letters</i> , 2009, 31, 889-896.	1.1	20
42	Acyl Migration Kinetics of Vegetable Oil 1,2-Diacylglycerols. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2008, 85, 307-312.	0.8	84
43	Purification of 1,2-diacylglycerols from vegetable oils: Comparison of molecular distillation and liquid CO ₂ extraction. <i>Industrial Crops and Products</i> , 2008, 28, 113-121.	2.5	29
44	Starch-encapsulated, soy-based, ultraviolet-absorbing composites with feruloylated monoacyl- and diacylglycerol lipids. <i>Industrial Crops and Products</i> , 2007, 25, 17-23.	2.5	29
45	Acyl Migration Kinetics of 2-Monoacylglycerols from Soybean Oil via ¹ H NMR. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2007, 84, 343-348.	0.8	71
46	Identification and quantification of feruloylated mono-, di-, and triacylglycerols from vegetable oils. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2006, 83, 753-758.	0.8	38
47	Enzymatic glycerolysis and transesterification of vegetable oil for enhanced production of feruloylated glycerols. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2006, 83, 765-770.	0.8	45
48	Feruloyl esterase hydrolysis and recovery of ferulic acid from jojoba meal. <i>Industrial Crops and Products</i> , 2006, 23, 46-53.	2.5	25
49	Cinnamoyl esters of lesquerella and castor oil: Novel sunscreen active ingredients. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2004, 81, 945-951.	0.8	13
50	Packed-bed bioreactor synthesis of feruloylated monoacyl- and diacylglycerols: clean production of a "green" sunscreen. <i>Green Chemistry</i> , 2003, 5, 382-386.	4.6	73
51	Chymotrypsin-Catalyzed Transesterification in Ionic Liquids and Ionic Liquid/Supercritical Carbon Dioxide. <i>ACS Symposium Series</i> , 2002, , 387-398.	0.5	7
52	Comparison of peroxidase activities of hemin, cytochrome c and microperoxidase-11 in molecular solvents and imidazolium-based ionic liquids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 18, 109-120.	1.8	161
53	Lipase-catalyzed synthesis of triolein-based sunscreens in supercritical CO ₂ . <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2001, 78, 43-47.	0.8	30
54	?-Chymotrypsin catalysis in imidazolium-based ionic liquids. <i>Biotechnology and Bioengineering</i> , 2001, 75, 181-186.	1.7	209

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55	Lipase-catalyzed synthesis of ferulate esters. <i>JAACS</i> , Journal of the American Oil Chemists' Society, 2000, 77, 513-519.	0.8	139
56	ansa-Ferrocenes with both Trisulfide and Hydrocarbon Straps. <i>Organometallics</i> , 1998, 17, 2702-2706.	1.1	17
57	Organometallic Polymers Based on S-S and Se-Se Linked n-Butylferrocenes. <i>Chemistry of Materials</i> , 1995, 7, 2342-2349.	3.2	45
58	tert-Butyl-Substituted Poly(ferrocenylene persulfides). <i>Organometallics</i> , 1994, 13, 4367-4376.	1.1	82