Michael Appell

List of Publications by Year
in descending order

58	918	430874 18	477307 29
papers	citations	h-index	g-index

60	60	60	1243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structureâ"Activity Relationships of Trichothecene Toxins in an Arabidopsis thaliana Leaf Assay. Journal of Agricultural and Food Chemistry, 2007, 55, 6487-6492.	5.2	73
2	B3LYP/6-311++G** geometry-optimization study of pentahydrates of Î±- and Î²-d-glucopyranose. Carbohydrate Research, 2005, 340, 1638-1655.	2.3	65
3	Capillary electrophoresis of the mycotoxin zearalenone using cyclodextrin-enhanced fluorescence. Journal of Chromatography A, 2007, 1143, 252-257.	3.7	63
4	DFT study of Î±- and Î²-d-galactopyranose at the B3LYP/6-311++G** level of theory. Carbohydrate Research, 2006, 341, 525-537.	2.3	59
5	DFT study of Î±- and Î²-d-mannopyranose at the B3LYP/6-311++G** level. Carbohydrate Research, 2005, 340, 459-468.	2.3	54
6	Sorption of Ochratoxin A from Aqueous Solutions Using Î²-Cyclodextrin-Polyurethane Polymer. Toxins, 2012, 4, 98-109.	3.4	37
7	Iodine catalyzed esterification of cellulose using reduced levels of solvent. Carbohydrate Polymers, 2007, 68, 555-560.	10.2	36
8	Removal of patulin from aqueous solutions by propylthiol functionalized SBA-15. Journal of Hazardous Materials, 2011, 187, 150-156.	12.4	34
9	Stepwise hydration of cellobiose by DFT methods: 1. Conformational and structural changes brought about by the addition of one to four water molecules. Computational and Theoretical Chemistry, 2006, 776, 1-19.	1.5	31
10	Feruloyl Dioleoylglycerol Antioxidant Capacity in Phospholipid Vesicles. Journal of Agricultural and Food Chemistry, 2010, 58, 5842-5850.	5.2	28
11	Synthesis and evaluation of cyclodextrin-based polymers for patulin extraction from aqueous solutions. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 68, 117-122.	1.6	27
12	Microwave-assisted synthesis of cyclodextrin polyurethanes. Carbohydrate Polymers, 2015, 133, 74-79.	10.2	23
13	Mycotoxin Analysis Using Imprinted Materials Technology: Recent Developments. Journal of AOAC INTERNATIONAL, 2016, 99, 861-864.	1.5	23
14	Determination of fusaric acid in maize using molecularly imprinted SPE clean-up. Journal of Separation Science, 2014, 37, 281-286.	2.5	21
15	Influence of Fatty Acid Desaturation on Spontaneous Acyl Migration in 2â€Monoacylglycerols. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 2259-2267.	1.9	20
16	Analysis of the photophysical properties of zearalenone using density functional theory. Journal of Luminescence, 2017, 188, 551-557.	3.1	20
17	Determination of Citrinin Using Molecularly Imprinted Solid Phase Extraction Purification, HPLC Separation, and Fluorescence Detection. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 1815-1819.	1.0	19
18	Effect of surfactants on the spectrofluorimetric properties of zearalenone. Journal of Luminescence, 2011, 131, 2330-2334.	3.1	18

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19	Hydrodeoxygenation of Fructose to 2,5-Dimethyltetrahydrofuran Using a Sulfur Poisoned Pt/C Catalyst. Industrial & Engineering Chemistry Research, 2015, 54, 7059-7066.	3.7	18
20	Structureâ€“activity relationships for substrate recognition by the human dopamine transporter. Biochemical Pharmacology, 2004, 67, 293-302.	4.4	17
21	Stepwise hydration of cellobiose by DFT methods: 2. Energy contributions to relative stabilities of cellobioseÂ·(H2O)1â€“4 complexes. Computational and Theoretical Chemistry, 2006, 776, 21-31.	1.5	17
22	An Analysis of the Binding of Cocaine Analogues to the Monoamine Transporters Using Tensor Decomposition 3-D QSAR. Bioorganic and Medicinal Chemistry, 2002, 10, 1197-1206.	3.0	15
23	Synthesis and spectral characterization of methyl 9(10)-dialkylphosphonostearates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 81-91.	3.9	15
24	Parameters Governing Ruthenium Sawhorse-Based Decarboxylation of Oleic Acid. Industrial & Engineering Chemistry Research, 2017, 56, 864-871.	3.7	14
25	Use of cyclodextrin-based polymer for patulin analysis in apple juice. Mycotoxins, 2013, 63, 1-8.	0.2	12
26	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.	1.0	12
27	Alternansucrase acceptor reactions with d-tagatose and l-glucose. Carbohydrate Research, 2005, 340, 257-262.	2.3	11
28	Dihydrolipoyl dioleoylglycerol antioxidant capacity in phospholipid vesicles. Chemistry and Physics of Lipids, 2012, 165, 160-168.	3.2	11
29	Assessment of the electronic structure and properties of trichothecene toxins using density functional theory. Journal of Hazardous Materials, 2015, 288, 113-123.	12.4	11
30	Pseudoflowers produced by Fusarium xyrophilum on yellow-eyed grass (Xyris spp.) in Guyana: A novel floral mimicry system?. Fungal Genetics and Biology, 2020, 144, 103466.	2.1	10
31	Comparative study of patulin, ascladiol, and neopatulin by density functional theory. Computational and Theoretical Chemistry, 2009, 894, 23-31.	1.5	9
32	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.	1.9	9
33	Quantum chemical study of the structure and properties of citrinin. Molecular Simulation, 2012, 38, 284-292.	2.0	8
34	Synthesis, Purification, and Acyl Migration Kinetics of 2â€Monoricinoleoylglycerol. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 271-279.	1.9	8
35	Quantum chemical investigation of the detection properties of alternariol and alternariol monomethyl ether. Structural Chemistry, 2019, 30, 1749-1759.	2.0	7
36	Increased selectivity in the formation of the phenoxy ether of methyl lesquerolate over chloroalkyl-modified SBA-15-SO3H catalystsâ˜†. Applied Catalysis A: General, 2010, 373, 90-97.	4.3	6

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37	Preparation of sorbitolâ€based polyurethanes and their semiinterpenetrating polymer networks. Journal of Applied Polymer Science, 2019, 136, 47602.	2.6	6
38	Raman spectral analysis for rapid determination of zearalenone and alpha-zearalanol. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120842.	3.9	6
39	Applications of Nanoporous Materials in Agriculture. ACS Symposium Series, 2013, , 167-176.	0.5	5
40	Feruloyl glycerol and 1,3-diferuloyl glycerol antioxidant behavior in phospholipid vesicles. Chemistry and Physics of Lipids, 2016, 195, 1-11.	3.2	5
41	Quantitative structure-activity relationship study for prediction of antifungal properties of phenolic compounds. Structural Chemistry, 2020, 31, 1621-1630.	2.0	5
42	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.	3.5	4
43	Development and Physical Characterization of Î±-Glucan Nanoparticles. Molecules, 2020, 25, 3807.	3.8	4
44	Molecularly Imprinted Polymers for Mycotoxins. ACS Symposium Series, 2008, , 152-169.	0.5	3
45	Octadecyl ferulate behavior in 1,2-Dioleoylphosphocholine liposomes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 333-343.	3.9	3
46	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.	2.0	3
47	Interactions between cyclodextrins and fluorescent T-2 and HT-2 toxin derivatives: a physico-chemical study. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2013, 75, 285-292.	1.6	2
48	Determination of pH Effects on Phosphatidyl-Hydroxytyrosol and Phosphatidyl-Tyrosol Bilayer Behavior. Methods and Protocols, 2018, 1, 41.	2.0	2
49	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.	3.9	2
50	Enzymatic Synthesis and Flash Chromatography Separation of 1,3-Diferuloyl-sn-Glycerol and 1-Feruloyl-sn-Glycerol. Methods and Protocols, 2020, 3, 8.	2.0	2
51	Predictive Quantitative Structureâ€“Activity Relationship Modeling of the Antifungal and Antibiotic Properties of Triazolothiadiazine Compounds. Methods and Protocols, 2021, 4, 2.	2.0	2
52	The Acrylation of Glycerol: A Precursor to Functionalized Lipids. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 713-719.	1.9	1
53	Charged phospholipid effects on AAPH oxidation assay as determined using liposomes. Chemistry and Physics of Lipids, 2019, 220, 49-56.	3.2	1
54	Synthesis and analysis of lactose polyurethanes and their semi-interpenetrating polymer networks. International Journal of Polymer Analysis and Characterization, 2022, 27, 266-276.	1.9	1

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55	NMR Study of Conformational Preferences of Inhibitors of Monoamine Uptake. QSAR and Combinatorial Science, 2002, 21, 38.	1.2	0
56	Theoretical investigation of cyromazine tautomerism using density functional theory and MÃ¸llerâ€“Plesset perturbation theory methods. Molecular Simulation, 2018, 44, 1344-1352.	2.0	0
57	Changing the Landscape: An Introduction to the Agricultural and Food Chemistry Technical Program at the 258th American Chemical Society National Meeting in San Diego. Journal of Agricultural and Food Chemistry, 2020, 68, 12769-12772.	5.2	0
58	Macromolecular Chemistry: The Second Century. An Introduction to the Agricultural and Food Chemistry Technical Program at the 261st American Chemical Society Spring Virtual Meeting & Expo. ACS Food Science & Technology, 2022, 2, 378-381.	2.7	0