

Karl E Vermillion

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6320844/publications.pdf>

Version: 2024-02-01

64
papers

1,746
citations

331259

21
h-index

288905

40
g-index

65
all docs

65
docs citations

65
times ranked

2328
citing authors

#	ARTICLE	IF	CITATIONS
1	Production, characterization and fuel properties of alternative diesel fuel from pyrolysis of waste plastic grocery bags. <i>Fuel Processing Technology</i> , 2014, 122, 79-90.	3.7	235
2	Discovery of the Aggregation Pheromone of the Brown Marmorated Stink Bug (<i>Halyomorpha</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Products, 2014, 77, 1708-1717.	1.5	162
3	Complete Quantification of Group A and Group B Soyasaponins in Soybeans. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 2035-2044.	2.4	84
4	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
5	Dicaffeoylquinic acids in Yerba mate (<i>Ilex paraguariensis</i> St. Hilaire) inhibit NF- κ B nucleus translocation in macrophages and induce apoptosis by activating caspases-8 and -3 in human colon cancer cells. <i>Molecular Nutrition and Food Research</i> , 2011, 55, 1509-1522.	1.5	81
6	Structural characterization of novel extracellular liamocins (mannitol oils) produced by <i>Aureobasidium pullulans</i> strain NRRL 50380. <i>Carbohydrate Research</i> , 2013, 370, 24-32.	1.1	74
7	Acyl Migration Kinetics of 2-Monoacylglycerols from Soybean Oil via 1H NMR. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2007, 84, 343-348.	0.8	71
8	Structural characterization of novel sophorolipid biosurfactants from a newly identified species of <i>Candida</i> yeast. <i>Carbohydrate Research</i> , 2012, 348, 33-41.	1.1	71
9	Poly(β -L-malic acid) production by diverse phylogenetic clades of <i>Aureobasidium pullulans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 125-132.	1.4	70
10	Multilocus phylogenetic analyses, pullulan production and xylanase activity of tropical isolates of <i>Aureobasidium pullulans</i> . <i>Mycological Research</i> , 2009, 113, 1107-1120.	2.5	65
11	Relationships between bridging oxygen 17O quadrupolar coupling parameters and structure in alkali silicates. <i>Journal of Chemical Physics</i> , 1998, 108, 7274-7285.	1.2	60
12	MALDI-TOF mass spectrometry of naturally occurring mixtures of monorhamnolipids and dirhamnolipids. <i>Carbohydrate Research</i> , 2009, 344, 204-209.	1.1	50
13	The Solid State Structure of [B10H11]- and Its Dynamic NMR Spectra in Solution. <i>Inorganic Chemistry</i> , 2003, 42, 1175-1186.	1.9	30
14	Determination of the Stereochemistry of the Aggregation Pheromone of Harlequin Bug, <i>Murgantia histrionica</i> . <i>Journal of Chemical Ecology</i> , 2014, 40, 1260-1268.	0.9	30
15	Stereochemistry of Furfural Reduction by a <i>Saccharomyces cerevisiae</i> Aldehyde Reductase That Contributes to In Situ Furfural Detoxification. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4926-4932.	1.4	29
16	Kinetic mechanism of an aldehyde reductase of <i>Saccharomyces cerevisiae</i> that relieves toxicity of furfural and 5-hydroxymethylfurfural. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1686-1694.	1.1	29
17	Novel modified soybean oil containing hydrazino-ester: synthesis and characterization. <i>Green Chemistry</i> , 2007, 9, 85-89.	4.6	28
18	Feruloyl Dioleoylglycerol Antioxidant Capacity in Phospholipid Vesicles. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5842-5850.	2.4	28

#	ARTICLE	IF	CITATIONS
19	Dinoxin B, a Withanolide from <i>Datura innoxia</i> Leaves with Specific Cytotoxic Activities. <i>Journal of Natural Products</i> , 2011, 74, 267-271.	1.5	28
20	Unique Flavanol-Anthocyanin Condensed Forms in Apache Red Purple Corn. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10844-10854.	2.4	26
21	Reactions of Aluminum Hydride Derivatives with Ammonia-Borane: A New Approach toward AlN/BN Materials. <i>Chemistry of Materials</i> , 1996, 8, 2839-2842.	3.2	24
22	Investigation of polymers and alcohols produced in oxidized soybean oil at frying temperatures. <i>Food Chemistry</i> , 2020, 317, 126379.	4.2	23
23	Influence of Fatty Acid Desaturation on Spontaneous Acyl Migration in Monoacylglycerols. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 2259-2267.	0.8	20
24	Glucosylation of raffinose via alternansucrase acceptor reactions. <i>Carbohydrate Research</i> , 2009, 344, 1951-1959.	1.1	19
25	Enhancing Antioxidant Activity of Sesamol at Frying Temperature by Addition of Additives through Reducing Volatility. <i>Journal of Food Science</i> , 2014, 79, C2164-73.	1.5	17
26	Structural characterization of (1 \rightarrow 2)- β -xylose-(1 \rightarrow 3)- β -arabinose-containing oligosaccharide products of extracted switchgrass (<i>Panicum virgatum</i> , L.) xylan after exhaustive enzymatic treatment with β -arabinofuranosidase and β -endo-xylanase. <i>Carbohydrate Research</i> , 2014, 398, 63-71.	1.1	17
27	Galactoglucomannan Oligosaccharides (GGMO) from a Molasses Byproduct of Pine (<i>Pinus taeda</i>) Fiberboard Production. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1854-1861.	2.4	16
28	Investigation of Some Characteristics of Polyhydroxy Milkweed Triglycerides and Their Acylated Derivatives in Relation to Lubricity. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4725-4735.	2.4	15
29	Synthesis and spectral characterization of methyl 9(10)-dialkylphosphonostearates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 81-91.	2.0	15
30	Renewable Aliphatic Polyesters from Fatty Dienes by Acyclic Diene Metathesis Polycondensation. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2020, 97, 517-530.	0.8	14
31	No Evidence Found for Diels-Alder Reaction Products in Soybean Oil Oxidized at the Frying Temperature by NMR Study. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 825-834.	0.8	13
32	Formation of Furan Fatty Alkyl Esters from their Bis-Epoxy Fatty Esters. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2014, 91, 2117-2123.	0.8	13
33	Irregular sesquiterpenoids from <i>Ligusticum grayi</i> roots. <i>Phytochemistry</i> , 2010, 71, 1545-1557.	1.4	12
34	Preparation of Acetonides from Soybean Oil, Methyl Soyate, and Fatty Esters. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 3066-3070.	2.4	12
35	Two-Carbon Homologation of Aldehydes and Ketones to β , γ -Unsaturated Aldehydes. <i>Molecules</i> , 2011, 16, 5062-5078.	1.7	12
36	Isolation and characterization of unhydrolyzed oligosaccharides from switchgrass (<i>Panicum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td <i>Carbohydrate Research</i> , 2015, 407, 42-50.	1.1	12

#	ARTICLE	IF	CITATIONS
37	Male-Produced Pheromone of <i>Spathius agrili</i> , A Parasitoid Introduced For The Biological Control Of The Invasive Emerald Ash Borer, <i>Agrilus planipennis</i> . <i>Journal of Chemical Ecology</i> , 2012, 38, 389-399.	0.9	11
38	Quinovosamycins: new tunicamycin-type antibiotics in which the β -1,6-linked N-acetylglucosamine residue is replaced by N-acetylquinovosamine. <i>Journal of Antibiotics</i> , 2016, 69, 637-646.	1.0	11
39	Peptidoglycan Recognition Proteins (PGRPs) Modulates Mosquito Resistance to Fungal Entomopathogens in a Fungal-Strain Specific Manner. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 9, 465.	1.8	11
40	Male-Specific Sesquiterpenes from <i>Phyllotreta</i> Flea Beetles. <i>Journal of Natural Products</i> , 2011, 74, 585-595.	1.5	10
41	Synthesis of a Dimethylfuran-Containing Macrolide Insect Pheromone. <i>Synthetic Communications</i> , 2009, 39, 1389-1405.	1.1	9
42	Frost Grape Polysaccharide (FGP), an Emulsion-Forming Arabinogalactan Gum from the Stems of Native North American Grape Species <i>Vitis riparia</i> Michx.. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 7286-7293.	2.4	9
43	Stable isotope-enhanced two- and three-dimensional diffusion ordered ^{13}C NMR spectroscopy (SIE-DOSY ^{13}C NMR). <i>Journal of Magnetic Resonance</i> , 2009, 198, 209-214.	1.2	8
44	Synthesis, Purification, and Acyl Migration Kinetics of $2\text{-O-}^{\text{acetyl}}$ Monoricinoleoylglycerol. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2014, 91, 271-279.	0.8	8
45	Glucansucrase acceptor reactions with d-mannose. <i>Carbohydrate Research</i> , 2014, 387, 1-3.	1.1	8
46	Coconut leaf bioactivity toward generalist maize insect pests. <i>Entomologia Experimentalis Et Applicata</i> , 2011, 141, 208-215.	0.7	7
47	Diffusion coefficients of water in biobased hydrogel polymer matrices by nuclear magnetic resonance imaging. <i>Journal of Applied Polymer Science</i> , 2012, 125, E580.	1.3	7
48	Selective catalytic hydrogenation of the N-acyl and uridyl double bonds in the tunicamycin family of protein N-glycosylation inhibitors. <i>Journal of Antibiotics</i> , 2017, 70, 1122-1128.	1.0	6
49	Production of isomelezitose from sucrose by engineered glucansucrases. <i>Amylase</i> , 2017, 1, .	0.7	6
50	New Family of Surfactants from Biobased Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13842-13850.	3.2	6
51	Assessing the diversity of anthocyanin composition in various tissues of purple corn (<i>Zea mays</i> L.). <i>Phytochemistry</i> , 2022, 201, 113263.	1.4	6
52	Analysis of 2,4,6-Nonatrienal Geometrical Isomers from Male Flea Beetles, <i>Epitrix hirtipennis</i> and <i>E. fuscata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4982-4986.	2.4	5
53	A one-pot synthesis of 1,6,9,13-tetraoxadispiro(4.2.4.2)tetradecane by hydrodeoxygenation of xylose using a palladium catalyst. <i>Carbohydrate Research</i> , 2016, 432, 9-16.	1.1	5
54	Nickel-Catalyzed Proton-Deuterium Exchange (HDX) Procedures for Glycosidic Linkage Analysis of Complex Carbohydrates. <i>Analytical Chemistry</i> , 2015, 87, 7282-7290.	3.2	4

#	ARTICLE	IF	CITATIONS
55	Efficient bioconversion of waste bread into 2-keto-d-gluconic acid by <i>Pseudomonas reptilivora</i> NRRL B-6. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 545-553.	2.9	4
56	Synthesis and Characterization of Polyethylene Glycol Diesters from Estolides Containing Epoxides and Diols. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2020, 97, 409-423.	0.8	4
57	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
58	Rehabilitation of faulty kinetic determinations and misassigned glycoside hydrolase family of retaining mechanism β -xylosidases. <i>Archives of Biochemistry and Biophysics</i> , 2013, 537, 176-184.	1.4	2
59	Biosynthesis and Conformational Properties of the Irregular Sesquiterpenoids Isothapsadiene and β -Isothapsenol. <i>Journal of Organic Chemistry</i> , 2018, 83, 5724-5730.	1.7	2
60	Thiazolidine Peracetates: Carbohydrate Derivatives that Readily Assign cis-,trans-2,3-Monosaccharides by Gas Chromatography-Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2018, 90, 8044-8050.	3.2	2
61	Rhodium-catalyzed reductive modification of pyrimidine nucleosides, nucleotide phosphates, and sugar nucleotides. <i>Carbohydrate Research</i> , 2020, 488, 107893.	1.1	2
62	Acetylthiostearates - mass spectroscopy and NMR characterization. <i>Journal of Sulfur Chemistry</i> , 2020, 41, 154-169.	1.0	1
63	Volatile non-terpenoid hydrocarbons from <i>Ligusticum grayi</i> roots. <i>Phytochemistry Letters</i> , 2011, 4, 158-160.	0.6	0
64	Heat- and light-induced thiolene oligomerization of soybean oil-based polymercaptan. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46150.	1.3	0