

# Karl E Vermillion

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

1,399

citations

20

h-index

36

g-index

65

ext. papers

1,583

ext. citations

4

avg, IF

4.37

L-index

#	Paper	IF	Citations
63	Production, characterization and fuel properties of alternative diesel fuel from pyrolysis of waste plastic grocery bags. <i>Fuel Processing Technology</i> , <b>2014</b> , 122, 79-90	7.2	174
62	Discovery of the aggregation pheromone of the brown marmorated stink bug ( <i>Halyomorpha halys</i> ) through the creation of stereoisomeric libraries of 1-bisabolen-3-ols. <i>Journal of Natural Products</i> , <b>2014</b> , 77, 1708-17	4.9	118
61	Complete quantification of group A and group B soyasaponins in soybeans. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 2035-44	5.7	70
60	Acyl Migration Kinetics of Vegetable Oil 1,2-Diacylglycerols. <i>JAOCs, Journal of the American Oil Chemist Society</i> , <b>2008</b> , 85, 307-312	1.8	69
59	Structural characterization of novel sophorolipid biosurfactants from a newly identified species of <i>Candida</i> yeast. <i>Carbohydrate Research</i> , <b>2012</b> , 348, 33-41	2.9	62
58	Dicaffeoylquinic acids in Yerba mate ( <i>Ilex paraguariensis</i> St. Hilaire) inhibit NF- $\kappa$ 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> , <b>2011</b> , 55, 1509-22	5.9	62
57	Acyl Migration Kinetics of 2-Monoacylglycerols from Soybean Oil via <sup>1</sup> H NMR. <i>JAOCs, Journal of the American Oil Chemist Society</i> , <b>2007</b> , 84, 343-348	1.8	62
56	Structural characterization of novel extracellular liamocins (mannitol oils) produced by <i>Aureobasidium pullulans</i> strain NRRL 50380. <i>Carbohydrate Research</i> , <b>2013</b> , 370, 24-32	2.9	61
55	Poly(L-malic acid) production by diverse phylogenetic clades of <i>Aureobasidium pullulans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2012</b> , 39, 125-32	4.2	60
54	Relationships between bridging oxygen <sup>17</sup> O quadrupolar coupling parameters and structure in alkali silicates. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7274-7285	3.9	58
53	Multilocus phylogenetic analyses, pullulan production and xylanase activity of tropical isolates of <i>Aureobasidium pullulans</i> . <i>Mycological Research</i> , <b>2009</b> , 113, 1107-20		49
52	MALDI-TOF mass spectrometry of naturally occurring mixtures of monorhamnolipids and dirhamnolipids. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 204-9	2.9	45
51	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> , <b>2010</b> , 76, 4926-32	4.8	28
50	Feruloyl dioleoylglycerol antioxidant capacity in phospholipid vesicles. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 5842-50	5.7	27
49	Novel modified soybean oil containing hydrazino-ester: synthesis and characterization. <i>Green Chemistry</i> , <b>2007</b> , 9, 85-89	10	26
48	The solid state structure of [b(10)h(11)](-) and its dynamic NMR spectra in solution. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 1175-86	5.1	26
47	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> , <b>2011</b> , 1814, 1686-94	4	25

46	Determination of the stereochemistry of the aggregation pheromone of harlequin bug, <i>Murgantia histrionica</i> . <i>Journal of Chemical Ecology</i> , <b>2014</b> , 40, 1260-8	2.7	24
45	Reactions of Aluminum Hydride Derivatives with AmmoniaBorane: A New Approach toward AlN/BN Materials. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 2839-2842	9.6	23
44	Dinoxin B, a withanolide from <i>Datura innoxia</i> leaves with specific cytotoxic activities. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 267-71	4.9	21
43	Glucosylation of raffinose via alternansucrase acceptor reactions. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1951-9	2.9	19
42	Galactoglucomannan Oligosaccharides (GGMO) from a molasses byproduct of pine ( <i>Pinus taeda</i> ) fiberboard production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 1854-61	5.7	16
41	Influence of Fatty Acid Desaturation on Spontaneous Acyl Migration in 2-Monoacylglycerols. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2012</b> , 89, 2259-2267	1.8	15
40	Unique Flavanol-Anthocyanin Condensed Forms in Apache Red Purple Corn. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 10844-10854	5.7	15
39	Investigation of some characteristics of polyhydroxy milkweed triglycerides and their acylated derivatives in relation to lubricity. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 4725-35	5.7	14
38	Synthesis and spectral characterization of methyl 9(10)-dialkylphosphonostearates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2013</b> , 110, 81-91	4.4	13
37	Enhancing antioxidant activity of sesamol at frying temperature by addition of additives through reducing volatility. <i>Journal of Food Science</i> , <b>2014</b> , 79, C2164-73	3.4	13
36	Structural characterization of (1- $\beta$ -D)-xylose-(1- $\beta$ -D)-arabinose-containing oligosaccharide products of extracted switchgrass ( <i>Panicum virgatum</i> , L.) xylan after exhaustive enzymatic treatment with $\beta$ -arabinofuranosidase and $\beta$ -endo-xylanase. <i>Carbohydrate Research</i> , <b>2014</b> , 398, 63-71	2.9	12
35	Irregular sesquiterpenoids from <i>Ligusticum grayi</i> roots. <i>Phytochemistry</i> , <b>2010</b> , 71, 1545-57	4	12
34	Isolation and characterization of unhydrolyzed oligosaccharides from switchgrass ( <i>Panicum virgatum</i> , L.) xylan after exhaustive enzymatic treatment with commercial enzyme preparations. <i>Carbohydrate Research</i> , <b>2015</b> , 407, 42-50	2.9	10
33	No Evidence Found for Diels-Alder Reaction Products in Soybean Oil Oxidized at the Frying Temperature by NMR Study. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2013</b> , 90, 825-834	1.8	10
32	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> , <b>2012</b> , 38, 389-99	2.7	10
31	Two-carbon homologation of aldehydes and ketones to $\alpha$ -unsaturated aldehydes. <i>Molecules</i> , <b>2011</b> , 16, 5062-78	4.8	10
30	Quinovosamycins: new tunicamycin-type antibiotics in which the $\beta$ -linked N-acetylglucosamine residue is replaced by N-acetylquinovosamine. <i>Journal of Antibiotics</i> , <b>2016</b> , 69, 637-46	3.7	10
29	Preparation of acetonides from soybean oil, methyl soyate, and fatty esters. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 3066-70	5.7	9

28	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> , <b>2015</b> , 63, 7286-93	5.7	8
27	Formation of Furan Fatty Alkyl Esters from their Bis-Epoxy Fatty Esters. <i>JAACS, Journal of the American Oil Chemist Society</i> , <b>2014</b> , 91, 2117-2123	1.8	8
26	Male-specific sesquiterpenes from Phyllotreta flea beetles. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 585-95	4.9	8
25	Renewable Aliphatic Polyesters from Fatty Dienes by Acyclic Diene Metathesis Polycondensation. <i>JAACS, Journal of the American Oil Chemist Society</i> , <b>2020</b> , 97, 517-530	1.8	7
24	Investigation of polymers and alcohols produced in oxidized soybean oil at frying temperatures. <i>Food Chemistry</i> , <b>2020</b> , 317, 126379	8.5	7
23	Synthesis, Purification, and Acyl Migration Kinetics of 2-Monoricinoleoylglycerol. <i>JAACS, Journal of the American Oil Chemist Society</i> , <b>2014</b> , 91, 271-279	1.8	7
22	Diffusion coefficients of water in biobased hydrogel polymer matrices by nuclear magnetic resonance imaging. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E580-E585	2.9	7
21	Stable isotope-enhanced two- and three-dimensional diffusion ordered <sup>13</sup> C NMR spectroscopy (SIE-DOSY <sup>13</sup> C NMR). <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 198, 209-14	3	7
20	Synthesis of a Dimethylfuran-Containing Macrolide Insect Pheromone. <i>Synthetic Communications</i> , <b>2009</b> , 39, 1389-1405	1.7	7
19	Glucanase acceptor reactions with d-mannose. <i>Carbohydrate Research</i> , <b>2014</b> , 387, 1-3	2.9	6
18	Coconut leaf bioactivity toward generalist maize insect pests. <i>Entomologia Experimentalis Et Applicata</i> , <b>2011</b> , 141, 208-215	2.1	6
17	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> , <b>2017</b> , 70, 1122-1128	3.7	5
16	Peptidoglycan Recognition Proteins (PGRPs) Modulates Mosquito Resistance to Fungal Entomopathogens in a Fungal-Strain Specific Manner. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 465	5.9	5
15	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> , <b>2016</b> , 432, 9-16	2.9	5
14	Production of isomelezitose from sucrose by engineered glucanases. <i>Amylase</i> , <b>2017</b> , 1,	0.8	5
13	Octadecyl ferulate behavior in 1,2-Dioleoylphosphocholine liposomes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 153, 333-43	4.4	3
12	Nickel-Catalyzed Proton-Deuterium Exchange (HDX) Procedures for Glycosidic Linkage Analysis of Complex Carbohydrates. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 7282-90	7.8	3
11	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> , <b>2008</b> , 56, 4982-6	5.7	3

10	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> , <b>2020</b> , 10, 545-553	2.3	2
9	Synthesis and Characterization of Polyethylene Glycol Diesters from Estolides Containing Epoxides and Diols. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2020</b> , 97, 409-423	1.8	2
8	Rehabilitation of faulty kinetic determinations and misassigned glycoside hydrolase family of retaining mechanism $\alpha$ -glucosidases. <i>Archives of Biochemistry and Biophysics</i> , <b>2013</b> , 537, 176-84	4.1	2
7	New Family of Surfactants from Biobased Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 13842-13850	8.3	2
6	Rhodium-catalyzed reductive modification of pyrimidine nucleosides, nucleotide phosphates, and sugar nucleotides. <i>Carbohydrate Research</i> , <b>2020</b> , 488, 107893	2.9	2
5	Biosynthesis and Conformational Properties of the Irregular Sesquiterpenoids Isothapsadiene and Isothapsenol. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 5724-5730	4.2	1
4	Thiazolidine Peracetates: Carbohydrate Derivatives that Readily Assign cis-, trans-2,3-Monosaccharides by Gas Chromatography-Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8044-8050	7.8	1
3	Acetylthiostearates [mass spectroscopy and NMR characterization. <i>Journal of Sulfur Chemistry</i> , <b>2020</b> , 41, 154-169	2.3	1
2	Heat- and light-induced thiol-ene oligomerization of soybean oil-based polymercaptan. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46150	2.9	
1	Volatile non-terpenoid hydrocarbons from <i>Ligusticum grayi</i> roots. <i>Phytochemistry Letters</i> , <b>2011</b> , 4, 158-160	1.6	