

Karl E Vermillion

List of Publications by Year in Descending Order

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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	New Family of Surfactants from Biobased Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 13842-13850	8.3	2
62	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	2.3	2
61	Renewable Aliphatic Polyesters from Fatty Dienes by Acyclic Diene Metathesis Polycondensation. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2020 , 97, 517-530	1.8	7
60	Investigation of polymers and alcohols produced in oxidized soybean oil at frying temperatures. <i>Food Chemistry</i> , 2020 , 317, 126379	8.5	7
59	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	1.8	2
58	Acetylthiostearates: Mass spectroscopy and NMR characterization. <i>Journal of Sulfur Chemistry</i> , 2020 , 41, 154-169	2.3	1
57	Rhodium-catalyzed reductive modification of pyrimidine nucleosides, nucleotide phosphates, and sugar nucleotides. <i>Carbohydrate Research</i> , 2020 , 488, 107893	2.9	2
56	Peptidoglycan Recognition Proteins (PGRPs) Modulates Mosquito Resistance to Fungal Entomopathogens in a Fungal-Strain Specific Manner. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019 , 9, 465	5.9	5
55	Biosynthesis and Conformational Properties of the Irregular Sesquiterpenoids Isothapsadiene and Isothapsenol. <i>Journal of Organic Chemistry</i> , 2018 , 83, 5724-5730	4.2	1
54	Heat- and light-induced thiol-ene oligomerization of soybean oil-based polymercaptan. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46150	2.9	
53	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	7.8	1
52	Unique Flavanol-Anthocyanin Condensed Forms in Apache Red Purple Corn. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 10844-10854	5.7	15
51	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	3.7	5
50	Production of isomelezitose from sucrose by engineered glucansucrases. <i>Amylase</i> , 2017 , 1,	0.8	5
49	Octadecyl ferulate behavior in 1,2-Dioleoylphosphocholine liposomes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 153, 333-43	4.4	3
48	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	2.9	5
47	Quinovosamycins: new tunicamycin-type antibiotics in which the 11-linked N-acetylglucosamine residue is replaced by N-acetylquinovosamine. <i>Journal of Antibiotics</i> , 2016 , 69, 637-46	3.7	10

46	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> , 2015 , 407, 42-50	2.9	10
45	Nickel-Catalyzed Proton-Deuterium Exchange (HDX) Procedures for Glycosidic Linkage Analysis of Complex Carbohydrates. <i>Analytical Chemistry</i> , 2015 , 87, 7282-90	7.8	3
44	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, 7286-93	5.7	8
43	Synthesis, Purification, and Acyl Migration Kinetics of 2-Monoricinoleoylglycerol. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2014 , 91, 271-279	1.8	7
42	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	7.2	174
41	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> , 2014 , 77, 1708-17	4.9	118
40	Structural characterization of (1- β)-D-xyllose-(1- β)-D-arabinose-containing oligosaccharide products of extracted switchgrass (<i>Panicum virgatum</i> , L.) xylan after exhaustive enzymatic treatment with D-arabinofuranosidase and D-endo-xylanase. <i>Carbohydrate Research</i> , 2014 , 398, 63-71	2.9	12
39	Glucansucrase acceptor reactions with d-mannose. <i>Carbohydrate Research</i> , 2014 , 387, 1-3	2.9	6
38	Determination of the stereochemistry of the aggregation pheromone of harlequin bug, <i>Murgantia histrionica</i> . <i>Journal of Chemical Ecology</i> , 2014 , 40, 1260-8	2.7	24
37	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	3.4	13
36	Formation of Furan Fatty Alkyl Esters from their Bis-Epoxy Fatty Esters. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2014 , 91, 2117-2123	1.8	8
35	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 ChemiststSociety</i> , 2013 , 90, 825-834	1.8	10
34	Rehabilitation of faulty kinetic determinations and misassigned glycoside hydrolase family of retaining mechanism D-xyltosidases. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 537, 176-84	4.1	2
33	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	2.9	61
32	Synthesis and spectral characterization of methyl 9(10)-dialkylphosphonostearates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 110, 81-91	4.4	13
31	Poly(L-malic acid) production by diverse phylogenetic clades of <i>Aureobasidium pullulans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012 , 39, 125-32	4.2	60
30	Influence of Fatty Acid Desaturation on Spontaneous Acyl Migration in 2-Monoacylglycerols. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2012 , 89, 2259-2267	1.8	15
29	Diffusion coefficients of water in biobased hydrogel polymer matrices by nuclear magnetic resonance imaging. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E580-E585	2.9	7

28	Male-produced pheromone of <i>Spathius agrili</i> , a parasitoid introduced for the biological control of the invasive emerald ash borer, <i>Agilus planipennis</i> . <i>Journal of Chemical Ecology</i> , 2012 , 38, 389-99	2.7	10
27	Structural characterization of novel sophorolipid biosurfactants from a newly identified species of <i>Candida</i> yeast. <i>Carbohydrate Research</i> , 2012 , 348, 33-41	2.9	62
26	Preparation of acetonides from soybean oil, methyl soyate, and fatty esters. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 3066-70	5.7	9
25	Dinoxin B, a withanolide from <i>Datura innoxia</i> leaves with specific cytotoxic activities. <i>Journal of Natural Products</i> , 2011 , 74, 267-71	4.9	21
24	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, 1686-94	4	25
23	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, 1854-61	5.7	16
22	Two-carbon homologation of aldehydes and ketones to α -unsaturated aldehydes. <i>Molecules</i> , 2011 , 16, 5062-78	4.8	10
21	Coconut leaf bioactivity toward generalist maize insect pests. <i>Entomologia Experimentalis Et Applicata</i> , 2011 , 141, 208-215	2.1	6
20	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, 1509-22	5.9	62
19	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, 4725-35	5.7	14
18	Male-specific sesquiterpenes from <i>Phyllotreta</i> flea beetles. <i>Journal of Natural Products</i> , 2011 , 74, 585-95	4.9	8
17	Volatile non-terpenoid hydrocarbons from <i>Ligusticum grayi</i> roots. <i>Phytochemistry Letters</i> , 2011 , 4, 158-160	1.6	0
16	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, 4926-32	4.8	28
15	Feruloyl dioleoylglycerol antioxidant capacity in phospholipid vesicles. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 5842-50	5.7	27
14	Irregular sesquiterpenoids from <i>Ligusticum grayi</i> roots. <i>Phytochemistry</i> , 2010 , 71, 1545-57	4	12
13	Multilocus phylogenetic analyses, pullulan production and xylanase activity of tropical isolates of <i>Aureobasidium pullulans</i> . <i>Mycological Research</i> , 2009 , 113, 1107-20		49
12	Glucosylation of raffinose via alternansucrase acceptor reactions. <i>Carbohydrate Research</i> , 2009 , 344, 1951-9	2.9	19
11	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, 209-14	3	7

10	MALDI-TOF mass spectrometry of naturally occurring mixtures of monorhamnolipids and dirhamnolipids. <i>Carbohydrate Research</i> , 2009 , 344, 204-9	2.9	45
9	Synthesis of a Dimethylfuran-Containing Macrolide Insect Pheromone. <i>Synthetic Communications</i> , 2009 , 39, 1389-1405	1.7	7
8	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, 4982-6	5.7	3
7	Acyl Migration Kinetics of Vegetable Oil 1,2-Diacylglycerols. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2008 , 85, 307-312	1.8	69
6	Novel modified soybean oil containing hydrazino-ester: synthesis and characterization. <i>Green Chemistry</i> , 2007 , 9, 85-89	10	26
5	Acyl Migration Kinetics of 2-Monoacylglycerols from Soybean Oil via ¹ H NMR. <i>JAACS, Journal of the American Oil ChemiststSociety</i> , 2007 , 84, 343-348	1.8	62
4	Complete quantification of group A and group B soyasaponins in soybeans. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 2035-44	5.7	70
3	The solid state structure of [b(10)h(11)](-) and its dynamic NMR spectra in solution. <i>Inorganic Chemistry</i> , 2003 , 42, 1175-86	5.1	26
2	Relationships between bridging oxygen ¹⁷ O quadrupolar coupling parameters and structure in alkali silicates. <i>Journal of Chemical Physics</i> , 1998 , 108, 7274-7285	3.9	58
1	Reactions of Aluminum Hydride Derivatives with AmmoniaBorane: A New Approach toward AlN/BN Materials. <i>Chemistry of Materials</i> , 1996 , 8, 2839-2842	9.6	23