

Kenneth M Doll

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4946891/publications.pdf>

Version: 2024-02-01

73
papers

1,949
citations

279778

23
h-index

265191

42
g-index

75
all docs

75
docs citations

75
times ranked

1914
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of fatty epoxide ring opening reactions: Chemistry, recent advances, and applications. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2022, 99, 801-842.	1.9	30
2	Production of Industrially Useful and Renewable α -Cymene by Catalytic Dehydration and Isomerization of Perillyl Alcohol. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2021, 98, 305-316.	1.9	3
3	Decarboxylation of oleic acid using iridium catalysis to form products of increased aromatic content compared to ruthenium systems. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 2018-2024.	3.5	4
4	Insecticidal Activity of <i>Commiphora erythraea</i> Essential Oil and Its Emulsions Against Larvae of Three Mosquito Species. <i>Journal of Medical Entomology</i> , 2020, 57, 1835-1842.	1.8	9
5	<i>Leptospermum scoparium</i> essential oil is a promising source of mosquito larvicide and its toxicity is enhanced by a biobased emulsifier. <i>PLoS ONE</i> , 2020, 15, e0229076.	2.5	19
6	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.	1.9	14
7	Investigation of polymers and alcohols produced in oxidized soybean oil at frying temperatures. <i>Food Chemistry</i> , 2020, 317, 126379.	8.2	23
8	Factors Affecting Antioxidant Activity of Amino Acids in Soybean Oil at Frying Temperatures. <i>European Journal of Lipid Science and Technology</i> , 2019, 121, 1900091.	1.5	16
9	Renewable Poly(Thioether α -Ester)s from Fatty Acid Derivatives via Thiol α -Ene Photopolymerization. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2019, 96, 825-837.	1.9	14
10	Bioactivity of Wild Carrot (<i>Daucus carota</i> , Apiaceae) Essential Oil Against Mosquito Larvae. <i>Journal of Medical Entomology</i> , 2019, 56, 784-789.	1.8	17
11	Honeysuckle essential oil as a potential source of ecofriendly larvicides for mosquito control. <i>Pest Management Science</i> , 2019, 75, 2043-2048.	3.4	20
12	Decarboxylation of cinnamic acids using a ruthenium sawhorse. <i>International Journal of Sustainable Engineering</i> , 2018, 11, 26-31.	3.5	1
13	Organogel Polymers from 10-Undecenoic Acid and Poly(vinyl acetate). <i>Journal of Polymers and the Environment</i> , 2018, 26, 3670-3676.	5.0	3
14	Thioether α -Functionalized Corn Oil Biosorbents for the Removal of Mercury and Silver Ions from Aqueous Solutions. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2018, 95, 1189-1200.	1.9	3
15	Parameters Governing Ruthenium Sawhorse-Based Decarboxylation of Oleic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 864-871.	3.7	14
16	Derivatization of castor oil based estolide esters: Preparation of epoxides and cyclic carbonates. <i>Industrial Crops and Products</i> , 2017, 104, 269-277.	5.2	24
17	Decarboxylation of Fatty Acids with Triruthenium Dodecacarbonyl: Influence of the Compound Structure and Analysis of the Product Mixtures. <i>ACS Omega</i> , 2017, 2, 6473-6480.	3.5	18
18	Combined Toxicity of Three Essential Oils Against <i>Aedes aegypti</i> (Diptera: Culicidae) Larvae. <i>Journal of Medical Entomology</i> , 2017, 54, 1684-1691.	1.8	44

#	ARTICLE	IF	CITATIONS
19	Improvement of Lubricant Materials Using Ruthenium Isomerization. Chemical Engineering Communications, 2016, 203, 901-907.	2.6	1
20	Analysis and Properties of the Decarboxylation Products of Oleic Acid by Catalytic Triruthenium Dodecacarbonyl. Energy & Fuels, 2016, 30, 7443-7451.	5.1	13
21	Synthesis and Characterization of Estolide Esters Containing Epoxy and Cyclic Carbonate Groups. JAOCS, Journal of the American Oil Chemists' Society, 2016, 93, 1149-1155.	1.9	8
22	Producing Monomers and Polymers from Plant Oils*. , 2016, , 79-98.		3
23	Antioxidants from Slow Pyrolysis Bio-Oil of Birch Wood: Application for Biodiesel and Biobased Lubricants. ACS Sustainable Chemistry and Engineering, 2016, 4, 1414-1421.	6.7	36
24	Increased functionality of methyl oleate using alkene metathesis. International Journal of Sustainable Engineering, 2014, 7, 322-329.	3.5	2
25	Formation of Furan Fatty Alkyl Esters from their Bis-Epoxy Fatty Esters. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 2117-2123.	1.9	13
26	Production, characterization and fuel properties of alternative diesel fuel from pyrolysis of waste plastic grocery bags. Fuel Processing Technology, 2014, 122, 79-90.	7.2	235
27	Elastohydrodynamic Properties of Biobased Heat-Bodied Oils. Industrial & Engineering Chemistry Research, 2014, 53, 16183-16195.	3.7	6
28	Tandem Isomerization-Decarboxylation for Converting Alkenoic Fatty Acids into Alkenes. ACS Catalysis, 2014, 4, 3517-3520.	11.2	45
29	Extraction of proteins from pennycress seeds and press cake. Industrial Crops and Products, 2013, 41, 113-119.	5.2	30
30	Bismuth(III) Trifluoromethanesulfonate Catalyzed Ring-Opening Reaction of Mono Epoxy Oleochemicals To Form Keto and Diketo Derivatives. ACS Sustainable Chemistry and Engineering, 2013, 1, 39-45.	6.7	17
31	No Evidence Found for Diels-Alder Reaction Products in Soybean Oil Oxidized at the Frying Temperature by NMR Study. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 825-834.	1.9	13
32	Thioether-Functionalized Vegetable Oils: Metal-Absorbing Biobased Ligands. ACS Sustainable Chemistry and Engineering, 2013, 1, 562-565.	6.7	6
33	Thermal modification of vegetable oils. Lipid Technology, 2013, 25, 83-85.	0.3	4
34	Gear oil formulation designed to meet bio-preferred criteria as well as give high performance. International Journal of Sustainable Engineering, 2013, 6, 326-331.	3.5	17
35	Physical properties study on partially bio-based lubricant blends: thermally modified soybean oil with popular commercial esters. International Journal of Sustainable Engineering, 2012, 5, 33-37.	3.5	10
36	Antiwear Additive Derived from Soybean Oil and Boron Utilized in a Gear Oil Formulation. Industrial & Engineering Chemistry Research, 2012, 51, 11941-11945.	3.7	14

#	ARTICLE	IF	CITATIONS
37	Production of phosphorus-containing oleochemicals through an epoxide route. International Journal of Sustainable Engineering, 2012, 5, 280-285.	3.5	3
38	Synthetic resin-bound truncated Candida antarctica lipase B for production of fatty acid alkyl esters by transesterification of corn and soybean oils with ethanol or butanol. Journal of Biotechnology, 2012, 159, 69-77.	3.8	9
39	Isothermal Thermogravimetric Analysis of Soybean Oil Oxidation Correlated to Thin Film Micro-Oxidation Test Methods. Industrial & Engineering Chemistry Research, 2012, 51, 3550-3555.	3.7	1
40	Investigation of Conjugated Soybean Oil as Drying Oils and CLA Sources. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1749-1762.	1.9	4
41	Diffusion coefficients of water in biobased hydrogel polymer matrices by nuclear magnetic resonance imaging. Journal of Applied Polymer Science, 2012, 125, E580.	2.6	7
42	Evidence Contrary to the Accepted Diels-Alder Mechanism in the Thermal Modification of Vegetable Oil. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 987-994.	1.9	21
43	Potential uses for cuphea oil processing byproducts and processed oils. Industrial Crops and Products, 2012, 35, 111-120.	5.2	7
44	Formulation of a Biobased Gear Oil Utilizing Boron Technology. , 2012, , .		0
45	Chemically Modified Fatty Acid Methyl Esters. , 2011, , 387-408.		2
46	Emulsification of Chemically Modified Vegetable Oils for Lubricant Use. Journal of Surfactants and Detergents, 2011, 14, 131-138.	2.1	23
47	Production of Candida antarctica Lipase B Gene Open Reading Frame using Automated PCR Gene Assembly Protocol on Robotic Workcell and Expression in an Ethanologenic Yeast for use as Resin-Bound Biocatalyst in Biodiesel Production. Journal of the Association for Laboratory Automation, 2011, 16, 17-37.	2.8	6
48	Evaluation of a Sugar-Based Edible Adhesive Using a Tensile Strength Tester. Journal of the Association for Laboratory Automation, 2011, 16, 153-156.	2.8	0
49	Solvent-Free Polymerization of L-Aspartic Acid in the Presence of D-Sorbitol to Obtain Water Soluble or Network Copolymers. Journal of Polymers and the Environment, 2009, 17, 103-108.	5.0	7
50	Synthesis of an Amine-Oleate Derivative Using an Ionic Liquid Catalyst. Journal of Agricultural and Food Chemistry, 2009, 57, 8136-8141.	5.2	32
51	Epoxidation of Methyl Oleate Using Heterogeneous Catalyst. Industrial & Engineering Chemistry Research, 2009, 48, 3268-3270.	3.7	34
52	Boron trifluoride catalyzed ring-opening polymerization of epoxidized soybean oil in liquid carbon dioxide. Green Chemistry, 2009, 11, 1774.	9.0	44
53	Friction Reducing Properties and Stability of Epoxidized Oleochemicals. Clean - Soil, Air, Water, 2008, 36, 700-705.	1.1	16
54	Properties of copolymers of aspartic acid and aliphatic dicarboxylic acids prepared by reactive extrusion. Journal of Applied Polymer Science, 2008, 110, 3348-3354.	2.6	9

#	ARTICLE	IF	CITATIONS
55	Ester hydroxy derivatives of methyl oleate: Tribological, oxidation and low temperature properties. <i>Bioresource Technology</i> , 2008, 99, 7333-7340.	9.6	118
56	Comparing Biofuels Obtained from Pyrolysis, of Soybean Oil or Soapstock, with Traditional Soybean Biodiesel: Density, Kinematic Viscosity, and Surface Tensions. <i>Energy & Fuels</i> , 2008, 22, 2061-2066.	5.1	43
57	Synthesis of cyclic acetals (ketals) from oleochemicals using a solvent free method. <i>Green Chemistry</i> , 2008, 10, 712.	9.0	22
58	Synthesis of Branched Methyl Hydroxy Stearates Including an Ester from Bio-Based Levulinic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3513-3519.	3.7	58
59	ADSORPTION BEHAVIOR OF EPOXIDIZED FATTY ESTERS VIA BOUNDARY LUBRICATION COEFFICIENT OF FRICTION MEASUREMENTS. <i>Chemical Engineering Communications</i> , 2007, 194, 1065-1077.	2.6	28
60	Oxidation, friction reducing, and low temperature properties of epoxy fatty acid methyl esters. <i>Green Chemistry</i> , 2007, 9, 469.	9.0	92
61	Surface Tension Studies of Alkyl Esters and Epoxidized Alkyl Esters Relevant to Oleochemically Based Fuel Additives. <i>Energy & Fuels</i> , 2007, 21, 3044-3048.	5.1	51
62	Diesters from Oleic Acid: Synthesis, Low Temperature Properties, and Oxidation Stability. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2007, 84, 675-680.	1.9	84
63	Solvent-free polymerization of citric acid and D-sorbitol. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4259-4267.	2.3	38
64	Metathesis of methyl soyate with ruthenium catalysts. <i>Fuel</i> , 2006, 85, 393-395.	6.4	41
65	Synthesis and performance of surfactants based on epoxidized methyl oleate and glycerol. <i>Journal of Surfactants and Detergents</i> , 2006, 9, 377-383.	2.1	25
66	Synthesis of Carbonated Fatty Methyl Esters Using Supercritical Carbon Dioxide. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 9608-9614.	5.2	78
67	The improved synthesis of carbonated soybean oil using supercritical carbon dioxide at a reduced reaction time. <i>Green Chemistry</i> , 2005, 7, 849.	9.0	100
68	Letters in Organic Chemistry (Polymerization of L-Aspartic Acid to Polysuccinimide and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (C</i> 687-689.	0.5	5
69	Adenosylcobinamide Plus Exogenous, Sterically Hindered, Putative Axial Bases: A Reinvestigation into the Cause of Record Levels of Co ^{III} C Heterolysis. <i>Inorganic Chemistry</i> , 2004, 43, 2611-2623.	4.0	13
70	The First Experimental Test of the Hypothesis that Enzymes Have Evolved To Enhance Hydrogen Tunneling. <i>Journal of the American Chemical Society</i> , 2003, 125, 10877-10884.	13.7	91
71	A Compelling Experimental Test of the Hypothesis That Enzymes Have Evolved To Enhance Quantum Mechanical Tunneling in Hydrogen Transfer Reactions: The ¹² -Neopentylcobalamin System Combined with Prior Adocobalamin Data. <i>Inorganic Chemistry</i> , 2003, 42, 4849-4856.	4.0	57
72	The synthesis and characterization of 8-methoxy-5 ^α -deoxyadenosylcobalamin: a coenzyme B12 analog which, following Co ^{III} -C bond homolysis, avoids cyclization of the 8-methoxy-5 ^α -deoxyadenosyl radical. <i>Journal of Inorganic Biochemistry</i> , 2002, 91, 388-397.	3.5	2

#	ARTICLE	IF	CITATIONS
73	Synthesis and characterization of isolable thiolatocobalamin complexes relevant to coenzyme B12-dependent ribonucleoside triphosphate reductase. <i>Journal of Inorganic Biochemistry</i> , 1999, 76, 197-209.	3.5	26