

# David C Bressler

## List of Publications by Year in descending order

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73  
papers

2,681  
citations

218677

26  
h-index

189892

50  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in bio-based plastics and plasticizing modifications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13379.	10.3	594
2	Recent developments in microwave-assisted thermal conversion of biomass for fuels and chemicals. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 92, 642-657.	16.4	129
3	Surface and thermal characterization of natural fibres treated with enzymes. <i>Industrial Crops and Products</i> , 2014, 53, 365-373.	5.2	127
4	Thermal deoxygenation and pyrolysis of oleic acid. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 1-7.	5.5	106
5	Composite materials with bast fibres: Structural, technical, and environmental properties. <i>Progress in Materials Science</i> , 2016, 83, 1-23.	32.8	102
6	Pyrolytic Decarboxylation and Cracking of Stearic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 5328-5336.	3.7	93
7	Utilization of Slaughterhouse Waste in Value-Added Applications: Recent Advances in the Development of Wood Adhesives. <i>Polymers</i> , 2018, 10, 176.	4.5	78
8	Incorporation of whey permeate, a dairy effluent, in ethanol fermentation to provide a zero waste solution for the dairy industry. <i>Journal of Dairy Science</i> , 2016, 99, 1859-1867.	3.4	77
9	Valorization of rendering industry wastes and co-products for industrial chemicals, materials and energy: review. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 120-131.	9.0	73
10	The susceptibility of large and small granules of waxy, normal and high-amylose genotypes of barley and corn starches toward amylolysis at sub-gelatinization temperatures. <i>Food Research International</i> , 2013, 51, 771-782.	6.2	69
11	Heterotrophic growth and lipid accumulation of <i>Chlorella protothecoides</i> in whey permeate, a dairy by-product stream, for biofuel production. <i>Bioresource Technology</i> , 2014, 155, 170-176.	9.6	68
12	Pyrolysis of polyunsaturated fatty acids. <i>Fuel Processing Technology</i> , 2014, 120, 89-95.	7.2	63
13	Fermentation of Barley by Using <i>Saccharomyces cerevisiae</i> : Examination of Barley as a Feedstock for Bioethanol Production and Value-Added Products. <i>Applied and Environmental Microbiology</i> , 2009, 75, 1363-1372.	3.1	53
14	Characterization of Cellulase-Treated Fibers and Resulting Cellulose Nanocrystals Generated through Acid Hydrolysis. <i>Materials</i> , 2018, 11, 1272.	2.9	51
15	Characterization of chemically and enzymatically treated hemp fibres using atomic force microscopy and spectroscopy. <i>Applied Surface Science</i> , 2014, 314, 1019-1025.	6.1	48
16	Enzymatically treated natural fibres as reinforcing agents for biocomposite material: mechanical, thermal, and moisture absorption characterization. <i>Journal of Materials Science</i> , 2016, 51, 2677-2686.	3.7	44
17	Adhesives from Waste Protein Biomass for Oriented Strand Board Composites: Development and Performance. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 1003-1012.	3.6	40
18	Thermosetting Proteinaceous Plastics from Hydrolyzed Specified Risk Material. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 1294-1303.	3.6	37

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19	Biocomposites from hydrolyzed waste proteinaceous biomass: mechanical, thermal and moisture absorption performances. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13186.	10.3	36
20	Two-stage thermal conversion of inedible lipid feedstocks to renewable chemicals and fuels. <i>Bioresource Technology</i> , 2014, 158, 55-62.	9.6	36
21	Improved cold starch hydrolysis with urea addition and heat treatment at subgelatinization temperature. <i>Carbohydrate Polymers</i> , 2012, 87, 1649-1656.	10.2	32
22	Recovery and characterization of proteinaceous material recovered from thermal and alkaline hydrolyzed specified risk materials. <i>Process Biochemistry</i> , 2013, 48, 885-892.	3.7	31
23	Subcritical hydrolysis and characterization of waste proteinaceous biomass for value added applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 476-483.	3.2	29
24	Modification of the cellulosic component of hemp fibers using sulfonic acid derivatives: Surface and thermal characterization. <i>Carbohydrate Polymers</i> , 2015, 134, 230-239.	10.2	28
25	Enhancing the Adhesive Strength of a Plywood Adhesive Developed from Hydrolyzed Specified Risk Materials. <i>Polymers</i> , 2016, 8, 285.	4.5	27
26	Co-Production of Cellulose Nanocrystals and Fermentable Sugars Assisted by Endoglucanase Treatment of Wood Pulp. <i>Materials</i> , 2018, 11, 1645.	2.9	27
27	Nonisothermal DSC Study of Epoxy Resins Cured with Hydrolyzed Specified Risk Material. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 8189-8199.	3.7	25
28	Simultaneous hydrolysis and co-fermentation of whey lactose with wheat for ethanol production. <i>Bioresource Technology</i> , 2016, 221, 616-624.	9.6	25
29	Thermal cracking of free fatty acids in inert and light hydrocarbon gas atmospheres. <i>Fuel</i> , 2014, 126, 250-255.	6.4	23
30	Comparative evaluation of the environmental impact of chemical methods used to enhance natural fibres for composite applications and glass fibre based composites. <i>Journal of Cleaner Production</i> , 2017, 149, 491-501.	9.3	23
31	Effect of incorporation of microstructured carbonized cellulose on surface and mechanical properties of epoxy composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48896.	2.6	23
32	Current progress in lipid-based biofuels: Feedstocks and production technologies. <i>Bioresource Technology</i> , 2022, 351, 127020.	9.6	23
33	Improving ethanol productivity through self-cycling fermentation of yeast: a proof of concept. <i>Biotechnology for Biofuels</i> , 2017, 10, 193.	6.2	22
34	Effects of Electrolytes, Water, and Temperature on Cross-Linking of Glutaraldehyde and Hydrolyzed Specified Risk Material. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4987-4993.	3.7	20
35	Development of Proteinaceous Plywood Adhesive and Optimization of Its Lap Shear Strength. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 198-209.	3.6	20
36	Pelletization of Torrefied Wood Using a Proteinaceous Binder Developed from Hydrolyzed Specified Risk Materials. <i>Processes</i> , 2019, 7, 229.	2.8	20

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37	Enzymatically-Mediated Co-Production of Cellulose Nanocrystals and Fermentable Sugars. <i>Catalysts</i> , 2017, 7, 322.	3.5	19
38	Production of Renewable Hydrocarbons from Thermal Conversion of Abietic Acid and Tall Oil Fatty Acids. <i>Energy &amp; Fuels</i> , 2014, 28, 6988-6994.	5.1	18
39	Hydrothermal treatment of oleaginous yeast for the recovery of free fatty acids for use in advanced biofuel production. <i>Journal of Biotechnology</i> , 2014, 187, 10-15.	3.8	17
40	Shape tunability of carbonized cellulose nanocrystals. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	17
41	Co-production of ethanol and cellulose nanocrystals through self-cycling fermentation of wood pulp hydrolysate. <i>Bioresource Technology</i> , 2021, 330, 124969.	9.6	16
42	Improved bioethanol productivity through gas flow rate-driven self-cycling fermentation. <i>Biotechnology for Biofuels</i> , 2020, 13, 14.	6.2	16
43	Resistant Starch Escaped from Ethanol Production: Evidence from Confocal Laser Scanning Microscopy of Distiller's Dried Grains with Solubles (DDGS). <i>Cereal Chemistry</i> , 2014, 91, 130-138.	2.2	15
44	Development of hydrolysed protein-based plywood adhesive from slaughterhouse waste: effect of chemical modification of hydrolysed protein on moisture resistance of formulated adhesives. <i>RSC Advances</i> , 2018, 8, 2996-3008.	3.6	15
45	Development of a torrefied wood pellet binder from the cross-linking between specified risk materials-derived peptides and epoxidized poly (vinyl alcohol). <i>Renewable Energy</i> , 2020, 162, 71-80.	8.9	15
46	Evaluation of value-added components of dried distiller's grain with solubles from triticale and wheat. <i>Bioresource Technology</i> , 2011, 102, 6920-6927.	9.6	14
47	Highly retained enzymatic activities of two different cellulases immobilized on non-porous and porous silica particles. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 621-628.	2.6	14
48	A Canadian Ethanol Feedstock Study to Benchmark the Relative Performance of Triticale: II. Grain Quality and Ethanol Production. <i>Agronomy Journal</i> , 2013, 105, 1707-1720.	1.8	13
49	Two-step thermal conversion of oleaginous microalgae into renewable hydrocarbons. <i>Bioresource Technology</i> , 2014, 158, 91-97.	9.6	13
50	Improving the accessibility of hemp fibres using caustic to swell the macrostructure for enzymatic enhancement. <i>Industrial Crops and Products</i> , 2015, 67, 74-80.	5.2	13
51	Production of Renewable Hydrocarbons by Thermal Cracking of Oleic Acid in the Presence of Water. <i>Energy &amp; Fuels</i> , 2017, 31, 9446-9454.	5.1	13
52	Pyrolysis of fatty acids derived from hydrolysis of brown grease with biosolids. <i>Environmental Science and Pollution Research</i> , 2020, 27, 26395-26405.	5.3	13
53	Cultivation of oleaginous yeast using aqueous fractions derived from hydrothermal pretreatments of biomass. <i>Bioresource Technology</i> , 2014, 170, 413-420.	9.6	11
54	Value-Added Products from Urea Glycerolysis Using a Heterogeneous Biosolids-Based Catalyst. <i>Catalysts</i> , 2018, 8, 373.	3.5	9

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55	A Biorefinery Strategy That Introduces Hydrothermal Treatment Prior to Acid Hydrolysis for Co-generation of Furfural and Cellulose Nanocrystals. <i>Frontiers in Chemistry</i> , 2020, 8, 323.	3.6	9
56	Glycerol Acetylation Mediated by Thermally Hydrolysed Biosolids-Based Material. <i>Catalysts</i> , 2020, 10, 5.	3.5	9
57	Surface and thermal enhancement of the cellulosic component of thermo mechanical pulp using a rapid method: Iodomethane modification. <i>Carbohydrate Polymers</i> , 2016, 142, 300-308.	10.2	8
58	Accelerating settling rates of biosolids lagoons through thermal hydrolysis. <i>Journal of Environmental Management</i> , 2018, 220, 227-232.	7.8	8
59	Utilization of tall oil to enhance natural fibers for composite applications and production of a bioplastic. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	7
60	Thermal processing of algal biomass for biofuel production. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2016, 2, 1-5.	5.9	7
61	Evaluation of thermally hydrolyzed specified risk materials cross-linked with glutaraldehyde for tackifier applications. <i>Progress in Organic Coatings</i> , 2020, 140, 105535.	3.9	7
62	Cross-Linking of Thermally Hydrolyzed Specified Risk Materials with Epoxidized Poly (Vinyl Alcohol) for Tackifier Applications. <i>Coatings</i> , 2020, 10, 630.	2.6	7
63	The potential of fiber-depleted starch concentrate produced through air currents assisted particle separation of barley flour in bio-ethanol production. <i>Bioresource Technology</i> , 2020, 303, 122942.	9.6	7
64	Valorizing Biowaste for Wastewater Treatment: Dewatering Sludges Using Specified Risk Material-Based Flocculants for Industrial Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2037-2046.	6.7	7
65	Biowaste-based biodegradable flocculants for clean and sustainable tailings management in industrial mining and mineral processing. <i>Journal of Cleaner Production</i> , 2021, 323, 129195.	9.3	5
66	Monitoring sugar release during pipeline hydro-transport of wheat straw. <i>Biomass and Bioenergy</i> , 2016, 93, 144-149.	5.7	4
67	Incorporation of Biosolids as Water Replacement in a Two-Step Renewable Hydrocarbon Process: Hydrolysis of Brown Grease with Biosolids. <i>Waste and Biomass Valorization</i> , 2020, 11, 6769-6780.	3.4	3
68	Desulphurization of drop-in fuel produced through lipid pyrolysis using brown grease and biosolids feedstocks. <i>Biomass and Bioenergy</i> , 2021, 154, 106233.	5.7	3
69	Microbially-mediated de-watering and consolidation (‘‘Biodensification’’) of oil sands mature fine tailings, amended with agri-business by-products. <i>Nova Scientia</i> , 2020, 12, .	0.1	3
70	Surface and Bulk Transformation of Thermomechanical Pulp Using Fatty Acyl Chlorides: Influence of Reaction Parameters on Surface, Morphological, and Thermal Properties. <i>Journal of Wood Chemistry and Technology</i> , 2016, 36, 114-128.	1.7	1
71	Using Specified Risk Materials-Based Peptides for Oil Sands Fluid Fine Tailings Management. <i>Materials</i> , 2021, 14, 1582.	2.9	1
72	Ruminant-Waste Protein Hydrolysates and Their Derivatives as a Bio-Flocculant for Oil Sands Tailing Management. <i>Polymers</i> , 2021, 13, 3533.	4.5	1

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73	Biosolids-based catalyst for oxidative desulphurization of drop-in fuels derived from waste fats. Fuel, 2022, 324, 124546.	6.4	1