

# David W Britt

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

85  
papers

3,660  
citations

31  
h-index

60  
g-index

88  
ext. papers

4,006  
ext. citations

4.8  
avg, IF

5.31  
L-index

#	Paper	IF	Citations
85	Development of Bioactive Solid Support for Immobilized <i>Lactococcus lactis</i> Biofilms in Bioreactors for the Production of Nisin. <i>Food and Bioprocess Technology</i> , <b>2022</b> , 15, 132-143	5.1	1
84	Pluronic F68-capped SiO <sub>2</sub> nanoparticles are compatible as delivery vehicles to roots and shoots. <i>MRS Advances</i> , <b>2022</b> , 7, 327	0.7	
83	Development of bioactive solid support for immobilized <i>Lactobacillus casei</i> biofilms and the production of lactic acid. <i>Bioprocess and Biosystems Engineering</i> , <b>2021</b> , 1	3.7	1
82	Silica Nanoparticles Synthesized from 3,3,3-Propyl(trifluoro)trimethoxysilane or n-Propyltrimethoxysilane for Creating Superhydrophobic Surfaces. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 4092-4102	5.6	1
81	Absence of Nanoparticle-Induced Drought Tolerance in Nutrient Sufficient Wheat Seedlings. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13541-13550	10.3	3
80	Early growth of corn seedlings after seed priming with magnetite nanoparticles synthesised in easy way. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , <b>2021</b> , 71, 91-97	1.1	1
79	Initial Development of Corn Seedlings after Seed Priming with Nanoscale Synthetic Zinc Oxide. <i>Agronomy</i> , <b>2020</b> , 10, 307	3.6	18
78	Antimicrobial Light-Activated Polypropylene Modified with Chitosan: Characterization and Reusability. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 13076-13082	5.7	4
77	Zein-modified antimicrobial polypropylene: Characterization and reusability upon UV-A light exposure. <i>LWT - Food Science and Technology</i> , <b>2020</b> , 121, 108983	5.4	6
76	A Review of Metal and Metal-Oxide Nanoparticle Coating Technologies to Inhibit Agglomeration and Increase Bioactivity for Agricultural Applications. <i>Agronomy</i> , <b>2020</b> , 10, 1018	3.6	31
75	Copper oxide nanoparticle dissolution at alkaline pH is controlled by dissolved organic matter: influence of soil-derived organic matter, wheat, bacteria, and nanoparticle coating. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2618-2631	7.1	11
74	Abiotic stressors impact outer membrane vesicle composition in a beneficial rhizobacterium: Raman spectroscopy characterization. <i>Scientific Reports</i> , <b>2020</b> , 10, 21289	4.9	3
73	Monitoring Silane Sol-Gel Kinetics with In-Situ Optical Turbidity Scanning and Dynamic Light Scattering. <i>Molecules</i> , <b>2019</b> , 24,	4.8	3
72	Microwave Assisted Sol-Gel Synthesis of Silica-Spider Silk Composites. <i>Molecules</i> , <b>2019</b> , 24,	4.8	3
71	One-Step Hydrophobic Silica Nanoparticle Synthesis at the Air/Water Interface. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6204-6212	8.3	2
70	Soil-derived fulvic acid and root exudates, modified by soil bacteria, alter CuO nanoparticle-induced root stunting of wheat via Cu complexation. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 3638-3652	7.1	9
69	Remodeling of root morphology by CuO and ZnO nanoparticles: effects on drought tolerance for plants colonized by a beneficial pseudomonad. <i>Botany</i> , <b>2018</b> , 96, 175-186	1.3	36

68	CuO and ZnO Nanoparticles Modify Interkingdom Cell Signaling Processes Relevant to Crop Production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 6513-6524	5.7	46
67	Biofilms Benefiting Plants Exposed to ZnO and CuO Nanoparticles Studied with a Root-Mimetic Hollow Fiber Membrane. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 6619-6627	5.7	10
66	Interactions Between a Plant Probiotic and Nanoparticles on Plant Responses Related to Drought Tolerance. <i>Industrial Biotechnology</i> , <b>2018</b> , 14, 148-156	1.3	14
65	Rhizosphere interactions between copper oxide nanoparticles and wheat root exudates in a sand matrix: Influences on copper bioavailability and uptake. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 2619-2632	3.8	37
64	Sustaining biogenic methane release from Illinois coal in a fermentor for one year. <i>Fuel</i> , <b>2018</b> , 227, 27-34	7.1	8
63	Soil chemistry influences the phytotoxicity of metal oxide nanoparticles. <i>International Journal of Nanotechnology</i> , <b>2017</b> , 14, 15	1.5	25
62	Cu from dissolution of CuO nanoparticles signals changes in root morphology. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 108-117	5.4	71
61	Sublethal doses of ZnO nanoparticles remodel production of cell signaling metabolites in the root colonizer <i>Pseudomonas chlororaphis</i> O6. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 1103-1113	7.1	9
60	Ag nanoparticles generated using bio-reduction and -coating cause microbial killing without cell lysis. <i>BioMetals</i> , <b>2016</b> , 29, 211-23	3.4	10
59	Deposition of Carbon Nanotube Films on Polyamide and Polypropylene Substrates: A Computer Simulation Approach. <i>Materials Research</i> , <b>2016</b> , 19, 895-900	1.5	2
58	A Root-Colonizing <i>Pseudomonad</i> Lessens Stress Responses in Wheat Imposed by CuO Nanoparticles. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164635	3.7	23
57	Pesticidal activity of metal oxide nanoparticles on plant pathogenic isolates of <i>Pythium</i> . <i>Ecotoxicology</i> , <b>2015</b> , 24, 1305-14	2.9	55
56	The phytotoxicity of ZnO nanoparticles on wheat varies with soil properties. <i>BioMetals</i> , <b>2015</b> , 28, 101-123	3.4	109
55	Nano-CuO and interaction with nano-ZnO or soil bacterium provide evidence for the interference of nanoparticles in metal nutrition of plants. <i>Ecotoxicology</i> , <b>2015</b> , 24, 119-29	2.9	115
54	ZnO nanoparticles and root colonization by a beneficial <i>pseudomonad</i> influence essential metal responses in bean ( <i>Phaseolus vulgaris</i> ). <i>Nanotoxicology</i> , <b>2015</b> , 9, 271-8	5.3	65
53	Salts affect the interaction of ZnO or CuO nanoparticles with wheat. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 2116-25	3.8	24
52	Hemodialysis membrane surface chemistry as a barrier to lipopolysaccharide transfer. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	6
51	Components from wheat roots modify the bioactivity of ZnO and CuO nanoparticles in a soil bacterium. <i>Environmental Pollution</i> , <b>2014</b> , 187, 65-72	9.3	29

50	Trifluorosilane induced structural transitions in beta-lactoglobulin in sol and gel. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 119, 6-13	6	7
49	Antifungal activity of ZnO nanoparticles and their interactive effect with a biocontrol bacterium on growth antagonism of the plant pathogen <i>Fusarium graminearum</i> . <i>BioMetals</i> , <b>2013</b> , 26, 913-24	3.4	149
48	Cross-linked hydrogel and polyester resorbable ventilation tubes in a Chinchilla model. <i>Laryngoscope</i> , <b>2013</b> , 123, 1043-8	3.6	1
47	Fate of CuO and ZnO nano- and microparticles in the plant environment. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 4734-42	10.3	204
46	Silver nanoparticles disrupt wheat ( <i>Triticum aestivum</i> L.) growth in a sand matrix. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 1082-90	10.3	239
45	Does doping with aluminum alter the effects of ZnO nanoparticles on the metabolism of soil pseudomonads?. <i>Microbiological Research</i> , <b>2013</b> , 168, 91-8	5.3	19
44	Soil components mitigate the antimicrobial effects of silver nanoparticles towards a beneficial soil bacterium, <i>Pseudomonas chlororaphis</i> O6. <i>Science of the Total Environment</i> , <b>2012</b> , 429, 215-22	10.2	75
43	Annexin A5 Binding and Rebinding to Mixed Phospholipid Monolayers Studied by SPR and AFM. <i>ACS Symposium Series</i> , <b>2012</b> , 419-432	0.4	
42	CuO and ZnO nanoparticles: phytotoxicity, metal speciation, and induction of oxidative stress in sand-grown wheat. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	422
41	Oriented confined water induced by cationic lipids. <i>Langmuir</i> , <b>2012</b> , 28, 4712-22	4	9
40	Production of indole-3-acetic acid via the indole-3-acetamide pathway in the plant-beneficial bacterium <i>Pseudomonas chlororaphis</i> O6 is inhibited by ZnO nanoparticles but enhanced by CuO nanoparticles. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 1404-10	4.8	75
39	Nanospecific inhibition of pyoverdine siderophore production in <i>Pseudomonas chlororaphis</i> O6 by CuO nanoparticles. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 1066-74	4	45
38	Bioactivity and Biomodification of Ag, ZnO, and CuO Nanoparticles with Relevance to Plant Performance in Agriculture. <i>Industrial Biotechnology</i> , <b>2012</b> , 8, 344-357	1.3	58
37	CuO and ZnO nanoparticles differently affect the secretion of fluorescent siderophores in the beneficial root colonizer, <i>Pseudomonas chlororaphis</i> O6. <i>Nanotoxicology</i> , <b>2012</b> , 6, 635-42	5.3	56
36	Responses of a soil bacterium, <i>Pseudomonas chlororaphis</i> O6 to commercial metal oxide nanoparticles compared with responses to metal ions. <i>Environmental Pollution</i> , <b>2011</b> , 159, 1749-56	9.3	120
35	Effect of sterilization techniques on the physicochemical properties of polysulfone hollow fibers. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 3429-3436	2.9	11
34	Large area microcorrals and cavity formation on cantilevers using a focused ion beam. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 051603	1.3	2
33	Interaction of silver nanoparticles with an environmentally beneficial bacterium, <i>Pseudomonas chlororaphis</i> . <i>Journal of Hazardous Materials</i> , <b>2011</b> , 188, 428-35	12.8	93

32	Excess fibrinogen adsorption to monolayers of mixed lipids. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 81, 607-13	6	5
31	Antimicrobial Activity of Commercial Nanoparticles <b>2009</b> ,		3
30	Self-assembly of a triangle-shaped, hexaplatinum-incorporated, supramolecular amphiphile in solution and at interfaces. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 8566-77	4.8	14
29	Pluronic Influence on pseudomonad biofilm and phenazine production. <i>FEMS Microbiology Letters</i> , <b>2009</b> , 293, 148-53	2.9	15
28	Antimicrobial activities of commercial nanoparticles against an environmental soil microbe, <i>Pseudomonas putida</i> KT2440. <i>Journal of Biological Engineering</i> , <b>2009</b> , 3, 9	6.3	209
27	In-Plane Ordering of a Genetically Engineered Viral Protein Cage <b>2009</b> , 85, 69-77		3
26	In vitro assessment of dialysis membrane as an endotoxin transfer barrier: geometry, morphology, and permeability. <i>Artificial Organs</i> , <b>2008</b> , 32, 701-10	2.6	24
25	Giant micelles of organoplatinum(II) gemini amphiphiles. <i>Langmuir</i> , <b>2008</b> , 24, 5400-10	4	11
24	Recognition of conformational changes in beta-lactoglobulin by molecularly imprinted thin films. <i>Biomacromolecules</i> , <b>2007</b> , 8, 2781-7	6.9	40
23	Islet encapsulation: strategies to enhance islet cell functions. <i>Tissue Engineering</i> , <b>2007</b> , 13, 589-99		157
22	Formation of protein molecular imprints within Langmuir monolayers: a quartz crystal microbalance study. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 308, 71-80	9.3	46
21	Humic acid effect on pyrene degradation: finding an optimal range for pyrene solubility and mineralization enhancement. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 74, 1368-75	5.7	33
20	A Problem-Based Learning Approach to Integrating Foreign Language Into Engineering. <i>Foreign Language Annals</i> , <b>2007</b> , 40, 226-246	2.1	6
19	Protein insertion and patterning of PEG bearing langmuir monolayers. <i>Biotechnology Progress</i> , <b>2006</b> , 22, 150-5	2.8	19
18	Sum-frequency spectroscopy analysis of two-component langmuir monolayers and the associated interfacial water structure. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 15506-13	3.4	22
17	From 3D to 2D: a review of the molecular imprinting of proteins. <i>Biotechnology Progress</i> , <b>2006</b> , 22, 1474-88		45
16	From 3D to 2D: A Review of the Molecular Imprinting of Proteins. <i>Biotechnology Progress</i> , <b>2006</b> , 22, 1474-88	2.189	301
15	Role of Lactose in Modifying Gel Transition Temperature and Morphology of Self-assembled Hydrogels. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6239-6245	9.6	4

14	Langmuir monolayer approaches to protein recognition through molecular imprinting. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 2053-60	11.8	36
13	Electrostatic force microscopy analysis of lipid miscibility in two-component monolayers. <i>Langmuir</i> , <b>2004</b> , 20, 3684-9	4	8
12	The Influence of Lipid Dipole Moment and Interfacial Water Structure on Protein Adsorption to Mixed Lipid Monolayers. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2003</b> , 34, 1133-1137	0.9	5
11	Protein Interactions with Monolayers at the Air/Water Interface. <i>Surfactant Science</i> , <b>2003</b> ,		1
10	Influence of Substrate Properties on the Topochemical Polymerization of Diacetylene Monolayers. <i>Langmuir</i> , <b>2001</b> , 17, 3757-3765	4	42
9	Ferritin adsorption to multicomponent monolayers: Influence of lipid charge density, miscibility and fluidity. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 4594-4599	3.6	25
8	Protonation, Hydrolysis, and Condensation of Mono- and Trifunctional Silanes at the Air/Water Interface. <i>Langmuir</i> , <b>1999</b> , 15, 1770-1776	4	23
7	Separating Octadecyltrimethoxysilane Hydrolysis and Condensation at the Air/Water Interface through Addition of Methyl Stearate. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 2749-2754	3.4	17
6	Tobacco mosaic virus adsorption on self-assembled and Langmuir-Blodgett monolayers studied by TIRF and SFM. <i>Thin Solid Films</i> , <b>1998</b> , 327-329, 824-828	2.2	22
5	Human Growth Hormone Adsorption Kinetics and Conformation on Self-Assembled Monolayers. <i>Langmuir</i> , <b>1998</b> , 14, 335-341	4	40
4	Human low density lipoprotein and human serum albumin adsorption onto model surfaces studied by total internal reflection fluorescence and scanning force microscopy. <i>Journal of Molecular Recognition</i> , <b>1996</b> , 9, 444-55	2.6	22
3	An AFM Study of the Effects of Silanization Temperature, Hydration, and Annealing on the Nucleation and Aggregation of Condensed OTS Domains on Mica. <i>Journal of Colloid and Interface Science</i> , <b>1996</b> , 178, 775-784	9.3	83
2	Early development of corn seedlings primed with synthetic tenorite nanofertilizer. <i>Journal of Seed Science</i> , <b>42</b> ,	1	1
1	Assessments in early growth of corn seedlings after hausmanite (Mn <sub>3</sub> O <sub>4</sub> ) nanoscale seed priming. <i>Journal of Plant Nutrition</i> , <b>1-10</b>	2.3	2