

David W Britt

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7062861/david-w-britt-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	CuO and ZnO nanoparticles: phytotoxicity, metal speciation, and induction of oxidative stress in sand-grown wheat. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	422
84	From 3D to 2D: A Review of the Molecular Imprinting of Proteins. <i>Biotechnology Progress</i> , 2006 , 22, 1474-1489	2.189	301
83	Silver nanoparticles disrupt wheat (<i>Triticum aestivum</i> L.) growth in a sand matrix. <i>Environmental Science & Technology</i> , 2013 , 47, 1082-90	10.3	239
82	Antimicrobial activities of commercial nanoparticles against an environmental soil microbe, <i>Pseudomonas putida</i> KT2440. <i>Journal of Biological Engineering</i> , 2009 , 3, 9	6.3	209
81	Fate of CuO and ZnO nano- and microparticles in the plant environment. <i>Environmental Science & Technology</i> , 2013 , 47, 4734-42	10.3	204
80	Islet encapsulation: strategies to enhance islet cell functions. <i>Tissue Engineering</i> , 2007 , 13, 589-99		157
79	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> , 2013 , 26, 913-24	3.4	149
78	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> , 2011 , 159, 1749-56	9.3	120
77	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> , 2015 , 24, 119-29	2.9	115
76	The phytotoxicity of ZnO nanoparticles on wheat varies with soil properties. <i>BioMetals</i> , 2015 , 28, 101-123	3.4	109
75	Interaction of silver nanoparticles with an environmentally beneficial bacterium, <i>Pseudomonas chlororaphis</i> . <i>Journal of Hazardous Materials</i> , 2011 , 188, 428-35	12.8	93
74	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> , 1996 , 178, 775-784	9.3	83
73	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> , 2012 , 429, 215-22	10.2	75
72	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> , 2012 , 78, 1404-10	4.8	75
71	Cu from dissolution of CuO nanoparticles signals changes in root morphology. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 108-117	5.4	71
70	ZnO nanoparticles and root colonization by a beneficial pseudomonad influence essential metal responses in bean (<i>Phaseolus vulgaris</i>). <i>Nanotoxicology</i> , 2015 , 9, 271-8	5.3	65
69	Bioactivity and Biomodification of Ag, ZnO, and CuO Nanoparticles with Relevance to Plant Performance in Agriculture. <i>Industrial Biotechnology</i> , 2012 , 8, 344-357	1.3	58

68	CuO and ZnO nanoparticles differently affect the secretion of fluorescent siderophores in the beneficial root colonizer, <i>Pseudomonas chlororaphis</i> O6. <i>Nanotoxicology</i> , 2012 , 6, 635-42	5.3	56
67	Pesticidal activity of metal oxide nanoparticles on plant pathogenic isolates of <i>Pythium</i> . <i>Ecotoxicology</i> , 2015 , 24, 1305-14	2.9	55
66	CuO and ZnO Nanoparticles Modify Interkingdom Cell Signaling Processes Relevant to Crop Production. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6513-6524	5.7	46
65	Formation of protein molecular imprints within Langmuir monolayers: a quartz crystal microbalance study. <i>Journal of Colloid and Interface Science</i> , 2007 , 308, 71-80	9.3	46
64	Nanospecific inhibition of pyoverdine siderophore production in <i>Pseudomonas chlororaphis</i> O6 by CuO nanoparticles. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1066-74	4	45
63	From 3D to 2D: a review of the molecular imprinting of proteins. <i>Biotechnology Progress</i> , 2006 , 22, 1474-88	8.8	45
62	Influence of Substrate Properties on the Topochemical Polymerization of Diacetylene Monolayers. <i>Langmuir</i> , 2001 , 17, 3757-3765	4	42
61	Recognition of conformational changes in beta-lactoglobulin by molecularly imprinted thin films. <i>Biomacromolecules</i> , 2007 , 8, 2781-7	6.9	40
60	Human Growth Hormone Adsorption Kinetics and Conformation on Self-Assembled Monolayers. <i>Langmuir</i> , 1998 , 14, 335-341	4	40
59	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> , 2018 , 37, 2619-2632	3.8	37
58	Remodeling of root morphology by CuO and ZnO nanoparticles: effects on drought tolerance for plants colonized by a beneficial pseudomonad. <i>Botany</i> , 2018 , 96, 175-186	1.3	36
57	Langmuir monolayer approaches to protein recognition through molecular imprinting. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2053-60	11.8	36
56	Humic acid effect on pyrene degradation: finding an optimal range for pyrene solubility and mineralization enhancement. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 1368-75	5.7	33
55	A Review of Metal and Metal-Oxide Nanoparticle Coating Technologies to Inhibit Agglomeration and Increase Bioactivity for Agricultural Applications. <i>Agronomy</i> , 2020 , 10, 1018	3.6	31
54	Components from wheat roots modify the bioactivity of ZnO and CuO nanoparticles in a soil bacterium. <i>Environmental Pollution</i> , 2014 , 187, 65-72	9.3	29
53	Soil chemistry influences the phytotoxicity of metal oxide nanoparticles. <i>International Journal of Nanotechnology</i> , 2017 , 14, 15	1.5	25
52	Ferritin adsorption to multicomponent monolayers: Influence of lipid charge density, miscibility and fluidity. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4594-4599	3.6	25
51	Salts affect the interaction of ZnO or CuO nanoparticles with wheat. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2116-25	3.8	24

50	In vitro assessment of dialysis membrane as an endotoxin transfer barrier: geometry, morphology, and permeability. <i>Artificial Organs</i> , 2008 , 32, 701-10	2.6	24
49	Protonation, Hydrolysis, and Condensation of Mono- and Trifunctional Silanes at the Air/Water Interface. <i>Langmuir</i> , 1999 , 15, 1770-1776	4	23
48	A Root-Colonizing Pseudomonad Lessens Stress Responses in Wheat Imposed by CuO Nanoparticles. <i>PLoS ONE</i> , 2016 , 11, e0164635	3.7	23
47	Tobacco mosaic virus adsorption on self-assembled and Langmuir-Blodgett monolayers studied by TIRF and SFM. <i>Thin Solid Films</i> , 1998 , 327-329, 824-828	2.2	22
46	Sum-frequency spectroscopy analysis of two-component langmuir monolayers and the associated interfacial water structure. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15506-13	3.4	22
45	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> , 1996 , 9, 444-55	2.6	22
44	Does doping with aluminum alter the effects of ZnO nanoparticles on the metabolism of soil pseudomonads?. <i>Microbiological Research</i> , 2013 , 168, 91-8	5.3	19
43	Protein insertion and patterning of PEG bearing langmuir monolayers. <i>Biotechnology Progress</i> , 2006 , 22, 150-5	2.8	19
42	Initial Development of Corn Seedlings after Seed Priming with Nanoscale Synthetic Zinc Oxide. <i>Agronomy</i> , 2020 , 10, 307	3.6	18
41	Separating Octadecyltrimethoxysilane Hydrolysis and Condensation at the Air/Water Interface through Addition of Methyl Stearate. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 2749-2754	3.4	17
40	Pluronic Influence on pseudomonad biofilm and phenazine production. <i>FEMS Microbiology Letters</i> , 2009 , 293, 148-53	2.9	15
39	Interactions Between a Plant Probiotic and Nanoparticles on Plant Responses Related to Drought Tolerance. <i>Industrial Biotechnology</i> , 2018 , 14, 148-156	1.3	14
38	Self-assembly of a triangle-shaped, hexaplatinum-incorporated, supramolecular amphiphile in solution and at interfaces. <i>Chemistry - A European Journal</i> , 2009 , 15, 8566-77	4.8	14
37	Effect of sterilization techniques on the physicochemical properties of polysulfone hollow fibers. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3429-3436	2.9	11
36	Giant micelles of organoplatinum(II) gemini amphiphiles. <i>Langmuir</i> , 2008 , 24, 5400-10	4	11
35	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> , 2020 , 7, 2618-2631	7.1	11
34	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> , 2018 , 66, 6619-6627	5.7	10
33	Ag nanoparticles generated using bio-reduction and -coating cause microbial killing without cell lysis. <i>BioMetals</i> , 2016 , 29, 211-23	3.4	10

32	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> , 2016 , 3, 1103-1113	7.1	9
31	Oriented confined water induced by cationic lipids. <i>Langmuir</i> , 2012 , 28, 4712-22	4	9
30	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> , 2019 , 6, 3638-3652	7.1	9
29	Sustaining biogenic methane release from Illinois coal in a fermentor for one year. <i>Fuel</i> , 2018 , 227, 27-34	7.1	8
28	Electrostatic force microscopy analysis of lipid miscibility in two-component monolayers. <i>Langmuir</i> , 2004 , 20, 3684-9	4	8
27	Trifluorosilane induced structural transitions in beta-lactoglobulin in sol and gel. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 119, 6-13	6	7
26	Hemodialysis membrane surface chemistry as a barrier to lipopolysaccharide transfer. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	6
25	A Problem-Based Learning Approach to Integrating Foreign Language Into Engineering. <i>Foreign Language Annals</i> , 2007 , 40, 226-246	2.1	6
24	Zein-modified antimicrobial polypropylene: Characterization and reusability upon UV-A light exposure. <i>LWT - Food Science and Technology</i> , 2020 , 121, 108983	5.4	6
23	Excess fibrinogen adsorption to monolayers of mixed lipids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 81, 607-13	6	5
22	The Influence of Lipid Dipole Moment and Interfacial Water Structure on Protein Adsorption to Mixed Lipid Monolayers. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 1133-1137	0.9	5
21	Role of Lactose in Modifying Gel Transition Temperature and Morphology of Self-assembled Hydrogels. <i>Chemistry of Materials</i> , 2005 , 17, 6239-6245	9.6	4
20	Antimicrobial Light-Activated Polypropylene Modified with Chitosan: Characterization and Reusability. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 13076-13082	5.7	4
19	Monitoring Silane Sol-Gel Kinetics with In-Situ Optical Turbidity Scanning and Dynamic Light Scattering. <i>Molecules</i> , 2019 , 24,	4.8	3
18	Microwave Assisted Sol-Gel Synthesis of Silica-Spider Silk Composites. <i>Molecules</i> , 2019 , 24,	4.8	3
17	Antimicrobial Activity of Commercial Nanoparticles 2009 ,		3
16	In-Plane Ordering of a Genetically Engineered Viral Protein Cage 2009 , 85, 69-77		3
15	Abiotic stressors impact outer membrane vesicle composition in a beneficial rhizobacterium: Raman spectroscopy characterization. <i>Scientific Reports</i> , 2020 , 10, 21289	4.9	3

14	Absence of Nanoparticle-Induced Drought Tolerance in Nutrient Sufficient Wheat Seedlings. <i>Environmental Science & Technology</i> , 2021 , 55, 13541-13550	10.3	3
13	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> , 2011 , 29, 051603	1.3	2
12	Deposition of Carbon Nanotube Films on Polyamide and Polypropylene Substrates: A Computer Simulation Approach. <i>Materials Research</i> , 2016 , 19, 895-900	1.5	2
11	One-Step Hydrophobic Silica Nanoparticle Synthesis at the Air/Water Interface. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6204-6212	8.3	2
10	Assessments in early growth of corn seedlings after hausmanite (Mn ₃ O ₄) nanoscale seed priming. <i>Journal of Plant Nutrition</i> , 1-10	2.3	2
9	Cross-linked hydrogel and polyester resorbable ventilation tubes in a Chinchilla model. <i>Laryngoscope</i> , 2013 , 123, 1043-8	3.6	1
8	Development of Bioactive Solid Support for Immobilized Lactococcus lactis Biofilms in Bioreactors for the Production of Nisin. <i>Food and Bioprocess Technology</i> , 2022 , 15, 132-143	5.1	1
7	Early development of corn seedlings primed with synthetic tenorite nanofertilizer. <i>Journal of Seed Science</i> , 42,	1	1
6	Development of bioactive solid support for immobilized Lactobacillus casei biofilms and the production of lactic acid. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 1	3.7	1
5	Protein Interactions with Monolayers at the Air Water Interface. <i>Surfactant Science</i> , 2003 ,		1
4	Silica Nanoparticles Synthesized from 3,3,3-Propyl(trifluoro)trimethoxysilane or n-Propyltrimethoxysilane for Creating Superhydrophobic Surfaces. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4092-4102	5.6	1
3	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> , 2021 , 71, 91-97	1.1	1
2	Annexin A5 Binding and Rebinding to Mixed Phospholipid Monolayers Studied by SPR and AFM. <i>ACS Symposium Series</i> , 2012 , 419-432	0.4	
1	Pluronic F68-capped SiO ₂ nanoparticles are compatible as delivery vehicles to roots and shoots. <i>MRS Advances</i> , 2022 , 7, 327	0.7	