

# Luz E De Bashan

## List of Publications by Year in descending order

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70  
papers

9,470  
citations

81900

39  
h-index

95266

68  
g-index

70  
all docs

70  
docs citations

70  
times ranked

8616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterotrophic cultures of microalgae: Metabolism and potential products. <i>Water Research</i> , 2011, 45, 11-36.	11.3	1,324
2	Recent advances in removing phosphorus from wastewater and its future use as fertilizer (1997â€“2003). <i>Water Research</i> , 2004, 38, 4222-4246.	11.3	1,110
3	Advances in plant growth-promoting bacterial inoculant technology: formulations and practical perspectives (1998â€“2013). <i>Plant and Soil</i> , 2014, 378, 1-33.	3.7	827
4	Azospirillum-plant relationships: physiological, molecular, agricultural, and environmental advances (1997-2003). <i>Canadian Journal of Microbiology</i> , 2004, 50, 521-577.	1.7	727
5	Immobilized microalgae for removing pollutants: Review of practical aspects. <i>Bioresource Technology</i> , 2010, 101, 1611-1627.	9.6	634
6	How the Plant Growth-Promoting Bacterium <i>Azospirillum</i> Promotes Plant Growthâ€”A Critical Assessment. <i>Advances in Agronomy</i> , 2010, , 77-136.	5.2	571
7	Microalgae growth-promoting bacteria as â€œhelpersâ€ for microalgae: a novel approach for removing ammonium and phosphorus from municipal wastewater. <i>Water Research</i> , 2004, 38, 466-474.	11.3	316
8	Removal of ammonium and phosphorus ions from synthetic wastewater by the microalgae <i>Chlorella vulgaris</i> coimmobilized in alginate beads with the microalgae growth-promoting bacterium <i>Azospirillum brasilense</i> . <i>Water Research</i> , 2002, 36, 2941-2948.	11.3	277
9	Tricalcium phosphate is inappropriate as a universal selection factor for isolating and testing phosphate-solubilizing bacteria that enhance plant growth: a proposal for an alternative procedure. <i>Biology and Fertility of Soils</i> , 2013, 49, 465-479.	4.3	240
10	Increased pigment and lipid content, lipid variety, and cell and population size of the microalgae <i>Chlorella</i> spp. when co-immobilized in alginate beads with the microalgae-growth-promoting bacterium <i>Azospirillum brasilense</i> . <i>Canadian Journal of Microbiology</i> , 2002, 48, 514-521.	1.7	199
11	<i>Chlorella sorokiniana</i> UTEX 2805, a heat and intense, sunlight-tolerant microalga with potential for removing ammonium from wastewater. <i>Bioresource Technology</i> , 2008, 99, 4980-4989.	9.6	184
12	Alginate beads provide a beneficial physical barrier against native microorganisms in wastewater treated with immobilized bacteria and microalgae. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2669-2680.	3.6	180
13	INVOLVEMENT OF INDOLEâ€“3â€“ACETIC ACID PRODUCED BY THE GROWTHâ€“PROMOTING BACTERIUM <i>AZOSPIRILLUM</i> SPP. IN PROMOTING GROWTH OF <i>CHLORELLA VULGARIS</i> . <i>Journal of Phycology</i> , 2008, 44, 938-947.	2.3	173
14	Starvation enhances phosphorus removal from wastewater by the microalga <i>Chlorella</i> spp. co-immobilized with <i>Azospirillum brasilense</i> . <i>Enzyme and Microbial Technology</i> , 2006, 38, 190-198.	3.2	138
15	Everything you must know about <i>Azospirillum</i> and its impact on agriculture and beyond. <i>Biology and Fertility of Soils</i> , 2020, 56, 461-479.	4.3	138
16	Growth promotion of the freshwater microalga <i>Chlorella vulgaris</i> by the nitrogen-fixing, plant growth-promoting bacterium <i>Bacillus pumilus</i> from arid zone soils. <i>European Journal of Soil Biology</i> , 2009, 45, 88-93.	3.2	136
17	EFFICIENCY OF GROWTH AND NUTRIENT UPTAKE FROM WASTEWATER BY HETEROTROPHIC, AUTOTROPHIC, AND MIXOTROPHIC CULTIVATION OF <i>CHLORELLA</i> VULGARIS IMMOBILIZED WITH <i>AZOSPIRILLUM</i> BRASILENSE. <i>Journal of Phycology</i> , 2010, 46, 800-812.	3.1	127
18	Assessment of affinity and specificity of <i>Azospirillum</i> for plants. <i>Plant and Soil</i> , 2016, 399, 389-414.	3.7	112

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19	Proven and potential involvement of vitamins in interactions of plants with plant growth-promoting bacteria—“an overview. <i>Biology and Fertility of Soils</i> , 2014, 50, 415-432.	4.3	111
20	A proposal for isolating and testing phosphate-solubilizing bacteria that enhance plant growth. <i>Biology and Fertility of Soils</i> , 2013, 49, 1-2.	4.3	97
21	<i>Bacillus pumilus</i> ES4: Candidate plant growth-promoting bacterium to enhance establishment of plants in mine tailings. <i>Environmental and Experimental Botany</i> , 2010, 69, 343-352.	4.2	87
22	Biological deterioration of alginate beads containing immobilized microalgae and bacteria during tertiary wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9847-9858.	3.6	85
23	Enhanced performance of the microalga <i>Chlorella sorokiniana</i> remotely induced by the plant growth-promoting bacteria <i>Azospirillum brasilense</i> and <i>Bacillus pumilus</i> . <i>Scientific Reports</i> , 2017, 7, 41310.	3.3	85
24	Enhanced accumulation of starch and total carbohydrates in alginate-immobilized <i>Chlorella</i> spp. induced by <i>Azospirillum brasilense</i> : II. Heterotrophic conditions. <i>Enzyme and Microbial Technology</i> , 2012, 51, 300-309.	3.2	80
25	Joint Immobilization of Plant Growth-Promoting Bacteria and Green Microalgae in Alginate Beads as an Experimental Model for Studying Plant-Bacterium Interactions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 6797-6802.	3.1	77
26	Cultivation factors and population size control the uptake of nitrogen by the microalgae <i>Chlorella vulgaris</i> when interacting with the microalgae growth-promoting bacterium <i>Azospirillum brasilense</i> . <i>FEMS Microbiology Ecology</i> , 2005, 54, 197-203.	2.7	74
27	Recycling waste debris of immobilized microalgae and plant growth-promoting bacteria from wastewater treatment as a resource to improve fertility of eroded desert soil. <i>Environmental and Experimental Botany</i> , 2012, 75, 65-73.	4.2	66
28	Development of two culture media for mass cultivation of <i>Azospirillum</i> spp. and for production of inoculants to enhance plant growth. <i>Biology and Fertility of Soils</i> , 2011, 47, 963-969.	4.3	60
29	Tryptophan, thiamine and indole-3-acetic acid exchange between <i>Chlorella sorokiniana</i> and the plant growth-promoting bacterium <i>Azospirillum brasilense</i> . <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw077.	2.7	60
30	Establishment of stable synthetic mutualism without co-evolution between microalgae and bacteria demonstrated by mutual transfer of metabolites (NanoSIMS isotopic imaging) and persistent physical association (Fluorescent in situ hybridization). <i>Algal Research</i> , 2016, 15, 179-186.	4.6	59
31	Enhanced accumulation of starch and total carbohydrates in alginate-immobilized <i>Chlorella</i> spp. induced by <i>Azospirillum brasilense</i> : I. Autotrophic conditions. <i>Enzyme and Microbial Technology</i> , 2012, 51, 294-299.	3.2	58
32	CELL-CELL INTERACTION IN THE EUKARYOTE-PROKARYOTE MODEL OF THE MICROALGAE <i>CHLORELLA VULGARIS</i> AND THE BACTERIUM <i>AZOSPIRILLUM BRASILENSE</i> IMMOBILIZED IN POLYMER BEADS <sup>1</sup> . <i>Journal of Phycology</i> , 2011, 47, 1350-1359.	2.3	55
33	Evidence that fresh weight measurement is imprecise for reporting the effect of plant growth-promoting (rhizo)bacteria on growth promotion of crop plants. <i>Biology and Fertility of Soils</i> , 2017, 53, 199-208.	4.3	55
34	Enhanced activity of ADP glucose pyrophosphorylase and formation of starch induced by <i>Azospirillum brasilense</i> in <i>Chlorella vulgaris</i> . <i>Journal of Biotechnology</i> , 2014, 177, 22-34.	3.8	46
35	Involvement of indole-3-acetic acid produced by <i>Azospirillum brasilense</i> in accumulating intracellular ammonium in <i>Chlorella vulgaris</i> . <i>Research in Microbiology</i> , 2015, 166, 72-83.	2.1	45
36	Title is missing!. <i>European Journal of Plant Pathology</i> , 2002, 108, 821-829.	1.7	43

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37	ROLE OF GLUTAMATE DEHYDROGENASE AND GLUTAMINE SYNTHETASE IN <i>CHLORELLA VULGARIS</i> DURING ASSIMILATION OF AMMONIUM WHEN JOINTLY IMMOBILIZED WITH THE MICROALGAE GROWTH PROMOTING BACTERIUM <i>AZOSPIRILLUM BRASILENSE</i> . <i>Journal of Phycology</i> , 2008, 44, 1188-1196.	2.3	43
38	Accumulation fatty acids of in <i>Chlorella vulgaris</i> under heterotrophic conditions in relation to activity of acetyl-CoA carboxylase, temperature, and co-immobilization with <i>Azospirillum brasilense</i> . <i>Die Naturwissenschaften</i> , 2014, 101, 819-830.	1.6	43
39	Growth of Quailbush in Acidic, Metalliferous Desert Mine Tailings: Effect of <i>Azospirillum brasilense</i> Sp6 on Biomass Production and Rhizosphere Community Structure. <i>Microbial Ecology</i> , 2010, 60, 915-927.	2.8	42
40	Enhanced molecular visualization of root colonization and growth promotion by <i>Bacillus subtilis</i> EA-CB0575 in different growth systems. <i>Microbiological Research</i> , 2018, 217, 69-80.	5.3	39
41	Toward the Enhancement of Microalgal Metabolite Production through Microalgae-Bacteria Consortia. <i>Biology</i> , 2021, 10, 282.	2.8	39
42	Indole-3-acetic acid from <i>Azospirillum brasilense</i> promotes growth in green algae at the expense of energy storage products. <i>Algal Research</i> , 2020, 47, 101845.	4.6	38
43	Designing a multi-species inoculant of phosphate rock-solubilizing bacteria compatible with arbuscular mycorrhizae for plant growth promotion in low-P soil amended with PR. <i>Biology and Fertility of Soils</i> , 2020, 56, 521-536.	4.3	35
44	A need for disclosure of the identity of microorganisms, constituents, and application methods when reporting tests with microbe-based or pesticide-based products. <i>Biology and Fertility of Soils</i> , 2016, 52, 283-284.	4.3	33
45	Influence of tryptophan and indole-3-acetic acid on starch accumulation in the synthetic mutualistic <i>Chlorella sorokiniana</i> - <i>Azospirillum brasilense</i> system under heterotrophic conditions. <i>Research in Microbiology</i> , 2016, 167, 367-379.	2.1	33
46	Accumulation of intra-cellular polyphosphate in <i>Chlorella vulgaris</i> cells is related to indole-3-acetic acid produced by <i>Azospirillum brasilense</i> . <i>Research in Microbiology</i> , 2015, 166, 399-407.	2.1	29
47	Activity of acetyl-CoA carboxylase is not directly linked to accumulation of lipids when <i>Chlorella vulgaris</i> is co-immobilised with <i>Azospirillum brasilense</i> in alginate under autotrophic and heterotrophic conditions. <i>Annals of Microbiology</i> , 2015, 65, 339-349.	2.6	29
48	Riboflavin and lumichrome exuded by the bacterium <i>Azospirillum brasilense</i> promote growth and changes in metabolites in <i>Chlorella sorokiniana</i> under autotrophic conditions. <i>Algal Research</i> , 2019, 44, 101696.	4.6	29
49	Disclosure of exact protocols of fermentation, identity of microorganisms within consortia, formation of advanced consortia with microbe-based products. <i>Biology and Fertility of Soils</i> , 2020, 56, 443-445.	4.3	29
50	Root growth improvement of mesquite seedlings and bacterial rhizosphere and soil community changes are induced by inoculation with plant growth-promoting bacteria and promote restoration of eroded desert soil. <i>Land Degradation and Development</i> , 2018, 29, 1453-1466.	3.9	28
51	Amendment of degraded desert soil with wastewater debris containing immobilized <i>Chlorella sorokiniana</i> and <i>Azospirillum brasilense</i> significantly modifies soil bacterial community structure, diversity, and richness. <i>Biology and Fertility of Soils</i> , 2013, 49, 1053-1063.	4.3	26
52	The maize mycorrhizosphere as a source for isolation of arbuscular mycorrhizae-compatible phosphate rock-solubilizing bacteria. <i>Plant and Soil</i> , 2020, 451, 169-186.	3.7	26
53	Microalga Growth-Promoting Bacteria (MGPB): A formal term proposed for beneficial bacteria involved in microalgal-bacterial interactions. <i>Algal Research</i> , 2022, 61, 102585.	4.6	26
54	Early Changes in Nutritional Conditions Affect Formation of Synthetic Mutualism Between <i>Chlorella sorokiniana</i> and the Bacterium <i>Azospirillum brasilense</i> . <i>Microbial Ecology</i> , 2019, 77, 980-992.	2.8	25

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55	Chlorella sorokiniana (formerly <i>C. vulgaris</i> ) UTEX 2714, a non-thermotolerant microalga useful for biotechnological applications and as a reference strain. <i>Journal of Applied Phycology</i> , 2016, 28, 113-121.	2.8	24
56	A proposal for avoiding fresh-weight measurements when reporting the effect of plant growth-promoting (rhizo)bacteria on growth promotion of plants. <i>Biology and Fertility of Soils</i> , 2017, 53, 1-2.	4.3	24
57	Soil Type Affects Organic Acid Production and Phosphorus Solubilization Efficiency Mediated by Several Native Fungal Strains from Mexico. <i>Microorganisms</i> , 2020, 8, 1337.	3.6	20
58	The <i>Azospirillum brasilense</i> type VI secretion system promotes cell aggregation, biocontrol protection against phytopathogens and attachment to the microalgae <i>Chlorella sorokiniana</i> . <i>Environmental Microbiology</i> , 2021, 23, 6257-6274.	3.8	20
59	Construction of probe of the plant growth-promoting bacteria <i>Bacillus subtilis</i> useful for fluorescence in situ hybridization. <i>Journal of Microbiological Methods</i> , 2016, 128, 125-129.	1.6	18
60	Enhancement of thiamine release during synthetic mutualism between <i>Chlorella sorokiniana</i> and <i>Azospirillum brasilense</i> growing under stress conditions. <i>Journal of Applied Phycology</i> , 2016, 28, 1521-1531.	2.8	18
61	Functional metabolic diversity of the bacterial community in undisturbed resource island soils in the southern Sonoran Desert. <i>Land Degradation and Development</i> , 2018, 29, 1467-1477.	3.9	18
62	<i>Azospirillum brasilense</i> reduces oxidative stress in the green microalgae <i>Chlorella sorokiniana</i> under different stressors. <i>Journal of Biotechnology</i> , 2021, 325, 179-185.	3.8	18
63	Success of long-term restoration of degraded arid land using native trees planted 11 years earlier. <i>Plant and Soil</i> , 2017, 421, 83-92.	3.7	13
64	Immobilization of microalgae cells in alginate facilitates isolation of DNA and RNA. <i>Journal of Microbiological Methods</i> , 2017, 135, 96-104.	1.6	12
65	Root-Associated Fungal Communities in Two Populations of the Fully Mycoheterotrophic Plant <i>Arachnitis uniflora</i> Phil. (Corsiaceae) in Southern Chile. <i>Microorganisms</i> , 2019, 7, 586.	3.6	12
66	Application of beneficial microorganisms and their effects on soil, plants, and the environment: the scientific legacy of Professor Yoav Bashan. <i>Biology and Fertility of Soils</i> , 2020, 56, 439-442.	4.3	8
67	The immediate effect of riboflavin and lumichrome on the mitigation of saline stress in the microalga <i>Chlorella sorokiniana</i> by the plant-growth-promoting bacterium <i>Azospirillum brasilense</i> . <i>Algal Research</i> , 2021, 58, 102424.	4.6	7
68	Interaction of <i>Azospirillum</i> spp. with Microalgae: A Basic Eukaryotic-Prokaryotic Model and Its Biotechnological Applications. , 2015, , 367-388.		6
69	Microbiome: A Tool for Plant Stress Management in Future Production Systems. <i>Stresses</i> , 2022, 2, 210-212.	4.8	2
70	Differences in Exudates Between Strains of <i>Chlorella sorokiniana</i> Affect the Interaction with the Microalga Growth-Promoting Bacteria <i>Azospirillum brasilense</i> . <i>Microbial Ecology</i> , 2022, , 1.	2.8	2