

# Nancy L Engle

## List of Publications by Year in descending order

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84  
papers

4,027  
citations

147801

31  
h-index

128289

60  
g-index

98  
all docs

98  
docs citations

98  
times ranked

5164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ozonized biochar filtrate effects on the growth of <i>Pseudomonas putida</i> and cyanobacteria <i>Synechococcus elongatus</i> PCC 7942. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	4.2	0
2	Expanding the Biological Role of Lipo-Chitooligosaccharides and Chitooligosaccharides in <i>Laccaria bicolor</i> Growth and Development. <i>Frontiers in Fungal Biology</i> , 2022, 3, .	2.0	4
3	Carbon-negative production of acetone and isopropanol by gas fermentation at industrial pilot scale. <i>Nature Biotechnology</i> , 2022, 40, 335-344.	17.5	195
4	Multiplex knockout of trichome-regulating MYB duplicates in hybrid poplar using a single gRNA. <i>Plant Physiology</i> , 2022, 189, 516-526.	4.8	18
5	Developmental changes in lignin composition are driven by both monolignol supply and laccase specificity. <i>Science Advances</i> , 2022, 8, eabm8145.	10.3	26
6	Proteomic and metabolic disturbances in lignin-modified <i>Brachypodium distachyon</i> . <i>Plant Cell</i> , 2022, 34, 3339-3363.	6.6	14
7	Relationships between <i>Sphaerulina musiva</i> Infection and the <i>Populus</i> Microbiome and Metabolome. <i>MSystems</i> , 2022, 7, .	3.8	2
8	ALD1 accumulation in <i>Arabidopsis</i> epidermal plastids confers local and non-autonomous disease resistance. <i>Journal of Experimental Botany</i> , 2021, 72, 2710-2726.	4.8	18
9	Towards engineering ectomycorrhization into switchgrass bioenergy crops via a lectin receptor-like kinase. <i>Plant Biotechnology Journal</i> , 2021, 19, 2454-2468.	8.3	14
10	Overexpression of a <i>Prefoldin Î²</i> subunit gene reduces biomass recalcitrance in the bioenergy crop <i>Populus</i> . <i>Plant Biotechnology Journal</i> , 2020, 18, 859-871.	8.3	17
11	Identification of functional single nucleotide polymorphism of <i>Populus trichocarpa</i> PtrEPSPâ€¢TF and determination of its transcriptional effect. <i>Plant Direct</i> , 2020, 4, e00178.	1.9	4
12	Isolation, Characterization, and Pathogenicity of Two <i>Pseudomonas syringae</i> Pathovars from <i>Populus trichocarpa</i> Seeds. <i>Microorganisms</i> , 2020, 8, 1137.	3.6	9
13	<i>Arabidopsis</i> C-terminal binding protein ANGUSTIFOLIA modulates transcriptional co-regulation of <i>MYB46</i> and <i>WRKY33</i> . <i>New Phytologist</i> , 2020, 228, 1627-1639.	7.3	17
14	Development of a clostridia-based cell-free system for prototyping genetic parts and metabolic pathways. <i>Metabolic Engineering</i> , 2020, 62, 95-105.	7.0	27
15	Plant Hosts Modify Belowground Microbial Community Response to Extreme Drought. <i>MSystems</i> , 2020, 5, .	3.8	36
16	Impacts of Soil Microbiome Variations on Root Colonization by Fungi and Bacteria and on the Metabolome of <i>Populus tremula</i> – <i>Populus alba</i> . <i>Phytobiomes Journal</i> , 2020, 4, 142-155.	2.7	24
17	Rex in <i>Caldicellulosiruptor bescii</i> : Novel regulon members and its effect on the production of ethanol and overflow metabolites. <i>MicrobiologyOpen</i> , 2019, 8, e00639.	3.0	15
18	Microfluidics and Metabolomics Reveal Symbiotic Bacterial–Fungal Interactions Between <i>Mortierella elongata</i> and <i>Burkholderia</i> Include Metabolite Exchange. <i>Frontiers in Microbiology</i> , 2019, 10, 2163.	3.5	37

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19	Horizontal transfer of a pathway for coumarate catabolism unexpectedly inhibits purine nucleotide biosynthesis. <i>Molecular Microbiology</i> , 2019, 112, 1784-1797.	2.5	5
20	Overexpression of a serine hydroxymethyltransferase increases biomass production and reduces recalcitrance in the bioenergy crop <i>Populus</i> . <i>Sustainable Energy and Fuels</i> , 2019, 3, 195-207.	4.9	27
21	Rhizosphere microbiomes diverge among <i>Populus trichocarpa</i> plant-host genotypes and chemotypes, but it depends on soil origin. <i>Microbiome</i> , 2019, 7, 76.	11.1	109
22	Combining loss of function of FOLYLPOLYGLUTAMATE SYNTHETASE1 and CAFFEOYL-COA 3-O-METHYLTRANSFERASE1 for lignin reduction and improved saccharification efficiency in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 108.	6.2	18
23	4-Coumarate 3-hydroxylase in the lignin biosynthesis pathway is a cytosolic ascorbate peroxidase. <i>Nature Communications</i> , 2019, 10, 1994.	12.8	171
24	The nature of the progression of drought stress drives differential metabolomic responses in <i>Populus deltoides</i> . <i>Annals of Botany</i> , 2019, 124, 617-626.	2.9	45
25	Scavenging organic nitrogen and remodelling lipid metabolism are key survival strategies adopted by the endophytic fungi, <i>Serendipita vermifera</i> and <i>Serendipita bescii</i> to alleviate nitrogen and phosphorous starvation in vitro. <i>Environmental Microbiology Reports</i> , 2019, 11, 548-557.	2.4	18
26	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. <i>Plant Physiology</i> , 2019, 181, 63-84.	4.8	27
27	Underground Azelaic Acid Conferred Resistance to <i>Pseudomonas syringae</i> in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 86-94.	2.6	35
28	Mathematical models of lignin biosynthesis. <i>Biotechnology for Biofuels</i> , 2018, 11, 34.	6.2	32
29	<i>Clostridium thermocellum</i> LL1210 pH homeostasis mechanisms informed by transcriptomics and metabolomics. <i>Biotechnology for Biofuels</i> , 2018, 11, 98.	6.2	16
30	A physical catalyst for the electrolysis of nitrogen to ammonia. <i>Science Advances</i> , 2018, 4, e1700336.	10.3	264
31	Abiotic Stresses Shift Belowground <i>Populus</i> -Associated Bacteria Toward a Core Stress Microbiome. <i>MSystems</i> , 2018, 3, .	3.8	89
32	A dynamic model of lignin biosynthesis in <i>Brachypodium distachyon</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 253.	6.2	11
33	Genome-wide association studies and expression-based quantitative trait loci analyses reveal roles of HCT2 in caffeoylquinic acid biosynthesis and its regulation by defense-responsive transcription factors in <i>Populus</i> . <i>New Phytologist</i> , 2018, 220, 502-516.	7.3	112
34	A 5-Enolpyruvylshikimate 3-Phosphate Synthase Functions as a Transcriptional Repressor in <i>Populus</i> . <i>Plant Cell</i> , 2018, 30, 1645-1660.	6.6	56
35	Quantitative proteome profile of water deficit stress responses in eastern cottonwood ( <i>Populus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 17	2.5	17
36	Modification of plant cell wall chemistry impacts metabolome and microbiome composition in <i>Populus</i> PdkOR1 RNAi plants. <i>Plant and Soil</i> , 2018, 429, 349-361.	3.7	16

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37	Integrated omics analyses reveal the details of metabolic adaptation of <i>Clostridium thermocellum</i> to lignocellulose-derived growth inhibitors released during the deconstruction of switchgrass. <i>Biotechnology for Biofuels</i> , 2017, 10, 14.	6.2	30
38	Pentose sugars inhibit metabolism and increase expression of an AgrD-type cyclic pentapeptide in <i>Clostridium thermocellum</i> . <i>Scientific Reports</i> , 2017, 7, 43355.	3.3	24
39	Characterization of a novel, ubiquitous fungal endophyte from the rhizosphere and root endosphere of <i>Populus</i> trees. <i>Fungal Ecology</i> , 2017, 27, 78-86.	1.6	27
40	Insights of biomass recalcitrance in natural <i>Populus trichocarpa</i> variants for biomass conversion. <i>Green Chemistry</i> , 2017, 19, 5467-5478.	9.0	82
41	Correlating laser-induced breakdown spectroscopy with neutron activation analysis to determine the elemental concentration in the ionome of the <i>Populus trichocarpa</i> leaf. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 138, 46-53.	2.9	11
42	Study of traits and recalcitrance reduction of field-grown COMT down-regulated switchgrass. <i>Biotechnology for Biofuels</i> , 2017, 10, 12.	6.2	30
43	Overexpression of a Domain of Unknown Function 231-containing protein increases O-xylan acetylation and cellulose biosynthesis in <i>Populus</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 311.	6.2	26
44	A Carotenoid-Deficient Mutant in <i>Pantoea</i> sp. YR343, a Bacteria Isolated from the Rhizosphere of <i>Populus deltoides</i> , Is Defective in Root Colonization. <i>Frontiers in Microbiology</i> , 2016, 7, 491.	3.5	48
45	Two Poplar-Associated Bacterial Isolates Induce Additive Favorable Responses in a Constructed Plant-Microbiome System. <i>Frontiers in Plant Science</i> , 2016, 7, 497.	3.6	113
46	Down-Regulation of KORRIGAN-Like Endo- $\beta$ -1,4-Glucanase Genes Impacts Carbon Partitioning, Mycorrhizal Colonization and Biomass Production in <i>Populus</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1455.	3.6	32
47	Knockdown of a laccase in <i>Populus deltoides</i> confers altered cell wall chemistry and increased sugar release. <i>Plant Biotechnology Journal</i> , 2016, 14, 2010-2020.	8.3	64
48	Consolidated bioprocessing of <i>Populus</i> using <i>Clostridium</i> ( <i>Ruminiclostridium</i> ) <i>thermocellum</i> : a case study on the impact of lignin composition and structure. <i>Biotechnology for Biofuels</i> , 2016, 9, 31.	6.2	54
49	Transcript, protein and metabolite temporal dynamics in the CAM plant <i>Agave</i> . <i>Nature Plants</i> , 2016, 2, 16178.	9.3	158
50	Scaling nitrogen and carbon interactions: what are the consequences of biological buffering?. <i>Ecology and Evolution</i> , 2015, 5, 2839-2850.	1.9	4
51	ALD1 Regulates Basal Immune Components and Early Inducible Defense Responses in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 455-466.	2.6	56
52	Genome-scale resources for <i>Thermoanaerobacterium saccharolyticum</i> . <i>BMC Systems Biology</i> , 2015, 9, 30.	3.0	24
53	Pinoresinol reductase 1 impacts lignin distribution during secondary cell wall biosynthesis in <i>Arabidopsis</i> . <i>Phytochemistry</i> , 2015, 112, 170-178.	2.9	31
54	A comparative multidimensional LC-MS proteomic analysis reveals mechanisms for furan aldehyde detoxification in <i>Thermoanaerobacter pseudethanolicus</i> 39E. <i>Biotechnology for Biofuels</i> , 2014, 7, 165.	6.2	17

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55	The exometabolome of <i>Clostridium thermocellum</i> reveals overflow metabolism at high cellulose loading. <i>Biotechnology for Biofuels</i> , 2014, 7, 155.	6.2	96
56	Improvement of cellulose catabolism in <i>Clostridium cellulolyticum</i> by sporulation abolishment and carbon alleviation. <i>Biotechnology for Biofuels</i> , 2014, 7, 25.	6.2	25
57	<i>Populus trichocarpa</i> and <i>Populus deltoides</i> Exhibit Different Metabolomic Responses to Colonization by the Symbiotic Fungus <i>Laccaria bicolor</i> . <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 546-556.	2.6	69
58	Enhanced characteristics of genetically modified switchgrass ( <i>Panicum virgatum</i> L.) for high biofuel production. <i>Biotechnology for Biofuels</i> , 2013, 6, 71.	6.2	118
59	Characterization of <i>Clostridium thermocellum</i> strains with disrupted fermentation end-product pathways. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 725-734.	3.0	50
60	The fate of lignin during hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 110.	6.2	191
61	Nitrogen and sulfur requirements for <i>Clostridium thermocellum</i> and <i>Caldicellulosiruptor bescii</i> on cellulosic substrates in minimal nutrient media. <i>Bioresource Technology</i> , 2013, 130, 125-135.	9.6	33
62	Systems Biology Analysis of <i>Zymomonas mobilis</i> ZM4 Ethanol Stress Responses. <i>PLoS ONE</i> , 2013, 8, e68886.	2.5	64
63	Industrial Robustness: Understanding the Mechanism of Tolerance for the <i>Populus</i> Hydrolysate-Tolerant Mutant Strain of <i>Clostridium thermocellum</i> . <i>PLoS ONE</i> , 2013, 8, e78829.	2.5	21
64	<i>Clostridium thermocellum</i> ATCC27405 transcriptomic, metabolomic and proteomic profiles after ethanol stress. <i>BMC Genomics</i> , 2012, 13, 336.	2.8	73
65	Down-regulation of the caffeic acid O-methyltransferase gene in switchgrass reveals a novel monolignol analog. <i>Biotechnology for Biofuels</i> , 2012, 5, 71.	6.2	96
66	Evaluation of the bioconversion of genetically modified switchgrass using simultaneous saccharification and fermentation and a consolidated bioprocessing approach. <i>Biotechnology for Biofuels</i> , 2012, 5, 81.	6.2	46
67	Combined inactivation of the <i>Clostridium cellulolyticum</i> lactate and malate dehydrogenase genes substantially increases ethanol yield from cellulose and switchgrass fermentations. <i>Biotechnology for Biofuels</i> , 2012, 5, 2.	6.2	125
68	Genetic dissection of transcript, metabolite, growth and wood property traits in an F2 pseudo-backcross pedigree of <i>Eucalyptus grandis</i> x <i>E. urophylla</i> . <i>BMC Proceedings</i> , 2011, 5, .	1.6	3
69	Biosynthesis and emission of insect-induced methyl salicylate and methyl benzoate from rice. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 279-287.	5.8	65
70	Efficient Degradation of Lignocellulosic Plant Biomass, without Pretreatment, by the Thermophilic Anaerobe <i>Anaerocellum thermophilum</i> DSM 6725. <i>Applied and Environmental Microbiology</i> , 2009, 75, 4762-4769.	3.1	187
71	Transcriptomic and metabolomic profiling of <i>Zymomonas mobilis</i> during aerobic and anaerobic fermentations. <i>BMC Genomics</i> , 2009, 10, 34.	2.8	138
72	Crystalline hydrogen-bonded nanocolumns of cyclic thiourea octamers. <i>CrystEngComm</i> , 2007, 9, 452.	2.6	25

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73	Combined Extraction of Cesium and Strontium from Alkaline Nitrate Solutions. Solvent Extraction and Ion Exchange, 2006, 24, 197-217.	2.0	19
74	An Equilibrium Model of Pseudo-Hydroxide Extraction in the Separation of Sodium Hydroxide from Aqueous Solutions using Lipophilic Fluorinated Alcohols and Phenols. Separation Science and Technology, 2005, 40, 725-738.	2.5	8
75	Synthesis and Properties of Calix[4]arene-bis[4-(2-ethylhexyl)benzo-crown-6], A Cesium Extractant with Improved Solubility. Solvent Extraction and Ion Exchange, 2004, 22, 611-636.	2.0	34
76	Rational Design of Cesium-Selective Ionophores: Dihydrocalix[4]arene Crown-6 Ethers. European Journal of Organic Chemistry, 2003, 2003, 4862-4869.	2.4	22
77	New amino-functionalized 1,3-alternate calix[4]arene bis- and mono-(benzo-crown-6 ethers) for pH-switched cesium nitrate extraction. Tetrahedron Letters, 2003, 44, 5397-5401.	1.4	29
78	The s-cis and s-trans $\pi$ complexes of B-bromocatecholborane and (E)-2-butenal. Journal of Chemical Research, 2003, 2003, 726-727.	1.3	0
79	Selective Separation of Hydroxide from Alkaline Nuclear Tank Waste by Liquid-Liquid Extraction with Weak Hydroxy Acids. Environmental Science & Technology, 2002, 36, 1861-1867.	10.0	28
80	Title is missing!. Journal of Chemical Crystallography, 2002, 32, 33-38.	1.1	0
81	SOLVATOCHROMIC SOLVENT POLARITY MEASUREMENTS OF ALCOHOL SOLVENT MODIFIERS AND CORRELATION WITH CESIUM EXTRACTION STRENGTH. Solvent Extraction and Ion Exchange, 2001, 19, 1037-1058.	2.0	29
82	Tribenzo-18-crown-6 acetonitrile disolvate. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1359-1360.	0.4	2
83	Development of Process Chemistry for the Removal of Cesium from Acidic Nuclear Waste by Calix[4]arene-crown-6 Ethers. ACS Symposium Series, 2000, , 26-44.	0.5	32
84	Benzyl Phenol Derivatives: Extraction Properties of Calixarene Fragments. ACS Symposium Series, 2000, , 86-106.	0.5	4