

# Jennifer L. Morrell-Falvey

## List of Publications by Year in descending order

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76  
papers

2,889  
citations

159585

30  
h-index

182427

51  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effector MiSSP7 of the mutualistic fungus <i>Laccaria bicolor</i> stabilizes the <i>Populus</i> JAZ6 protein and represses jasmonic acid (JA) responsive genes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8299-8304.	7.1	329
2	Cytotoxicity Induced by Engineered Silver Nanocrystallites Is Dependent on Surface Coatings and Cell Types. Langmuir, 2012, 28, 2727-2735.	3.5	222
3	An anillin homologue, Mid2p, acts during fission yeast cytokinesis to organize the septin ring and promote cell separation. Journal of Cell Biology, 2003, 160, 1093-1103.	5.2	138
4	<i>Pseudomonas fluorescens</i> Induces Strain-Dependent and Strain-Independent Host Plant Responses in Defense Networks, Primary Metabolism, Photosynthesis, and Fitness. Molecular Plant-Microbe Interactions, 2012, 25, 765-778.	2.6	100
5	Global Molecular and Morphological Effects of 24-Hour Chromium(VI) Exposure on <i>Shewanella oneidensis</i> MR-1. Applied and Environmental Microbiology, 2006, 72, 6331-6344.	3.1	96
6	Highly Efficient Isolation of <i>Populus</i> Mesophyll Protoplasts and Its Application in Transient Expression Assays. PLoS ONE, 2012, 7, e44908.	2.5	89
7	Integrating engineering design improvements with exoelectrogen enrichment process to increase power output from microbial fuel cells. Journal of Power Sources, 2009, 191, 520-527.	7.8	86
8	Role of Septins and the Exocyst Complex in the Function of Hydrolytic Enzymes Responsible for Fission Yeast Cell Separation. Molecular Biology of the Cell, 2005, 16, 4867-4881.	2.1	84
9	Requirements of Fission Yeast Septins for Complex Formation, Localization, and Function. Molecular Biology of the Cell, 2004, 15, 5551-5564.	2.1	78
10	The Spindle Pole Body Protein Cdc11p Links Sid4p to the Fission Yeast Septation Initiation Network. Molecular Biology of the Cell, 2002, 13, 1203-1214.	2.1	76
11	A Mutant of Arp2p Causes Partial Disassembly of the Arp2/3 Complex and Loss of Cortical Actin Function in Fission Yeast. Molecular Biology of the Cell, 1999, 10, 4201-4215.	2.1	66
12	The GIN4 family kinase, Cdr2p, acts independently of septins in fission yeast. Journal of Cell Science, 2004, 117, 5293-5302.	2.0	66
13	Sid4p-Cdc11p Assembles the Septation Initiation Network and Its Regulators at the <i>S. pombe</i> SPB. Current Biology, 2004, 14, 579-584.	3.9	66
14	Function of a Chemotaxis-Like Signal Transduction Pathway in Modulating Motility, Cell Clumping, and Cell Length in the Alphaproteobacterium <i>Azospirillum brasilense</i> . Journal of Bacteriology, 2008, 190, 6365-6375.	2.2	64
15	SEPH, a Cdc7p orthologue from <i>Aspergillus nidulans</i> , functions upstream of actin ring formation during cytokinesis. Molecular Microbiology, 2008, 42, 3-12.	2.5	62
16	Coupled Mercury Cell Sorption, Reduction, and Oxidation on Methylmercury Production by <i>Geobacter sulfurreducens</i> PCA. Environmental Science & Technology, 2014, 48, 11969-11976.	10.0	60
17	Light Chain Amyloid Fibrils Cause Metabolic Dysfunction in Human Cardiomyocytes. PLoS ONE, 2015, 10, e0137716.	2.5	58
18	Pore-scale hydrodynamics influence the spatial evolution of bacterial biofilms in a microfluidic porous network. PLoS ONE, 2019, 14, e0218316.	2.5	55

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19	Study of Cyclin Proteolysis in Anaphase-Promoting Complex (APC) Mutant Cells Reveals the Requirement for APC Function in the Final Steps of the Fission Yeast Septation Initiation Network. <i>Molecular and Cellular Biology</i> , 2001, 21, 6681-6694.	2.3	49
20	Cell wall remodeling at the fission yeast cell division site requires the Rho-GEF Rgf3p. <i>Journal of Cell Science</i> , 2005, 118, 5563-5573.	2.0	49
21	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
22	Microarrays of Biomimetic Cells Formed by the Controlled Synthesis of Carbon Nanofiber Membranes. <i>Nano Letters</i> , 2004, 4, 1809-1814.	9.1	45
23	Measuring cell surface elasticity on enteroaggregative <i>Escherichia coli</i> wild type and dispersin mutant by AFM. <i>Ultramicroscopy</i> , 2006, 106, 695-702.	1.9	44
24	Mediation of plant-mycorrhizal interaction by a lectin receptor-like kinase. <i>Nature Plants</i> , 2019, 5, 676-680.	9.3	42
25	Stochastic Assembly of Bacteria in Microwell Arrays Reveals the Importance of Confinement in Community Development. <i>PLoS ONE</i> , 2016, 11, e0155080.	2.5	42
26	The fission yeast septation initiation network (SIN) kinase, Sid2, is required for SIN asymmetry and regulates the SIN scaffold, Cdc11. <i>Molecular Biology of the Cell</i> , 2012, 23, 1636-1645.	2.1	40
27	A novel pH-dependent membrane peptide that binds to EphA2 and inhibits cell migration. <i>ELife</i> , 2018, 7, .	6.0	36
28	<i>Schizosaccharomyces pombe</i> Git7p, a Member of the <i>Saccharomyces cerevisiae</i> Sgt1p Family, Is Required for Glucose and Cyclic AMP Signaling, Cell Wall Integrity, and Septation. <i>Eukaryotic Cell</i> , 2002, 1, 558-567.	3.4	35
29	Metabolic Adaptations of <i>Azospirillum brasilense</i> to Oxygen Stress by Cell-to-Cell Clumping and Flocculation. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8346-8357.	3.1	35
30	Spatial and temporal dynamics of cellulose degradation and biofilm formation by <i>Caldicellulosiruptor obsidiansis</i> and <i>Clostridium thermocellum</i> . <i>AMB Express</i> , 2011, 1, 30.	3.0	34
31	Quantifying the Spatiotemporal Dynamics of Plant Root Colonization by Beneficial Bacteria in a Microfluidic Habitat. <i>Advanced Biology</i> , 2018, 2, 1800048.	3.0	31
32	Plant-Microbe Interactions: From Genes to Ecosystems Using <i>Populus</i> as a Model System. <i>Phytobiomes Journal</i> , 2021, 5, 29-38.	2.7	31
33	Automated image analysis of atomic force microscopy images of rotavirus particles. <i>Ultramicroscopy</i> , 2006, 106, 829-837.	1.9	30
34	Raman chemical imaging of the rhizosphere bacterium <i>Pantoea</i> sp. YR343 and its co-culture with <i>Arabidopsis thaliana</i> . <i>Analyst</i> , 2016, 141, 2175-2182.	3.5	30
35	Lectin-Functionalized Poly(glycidyl methacrylate)-block-poly(vinylidimethyl azlactone) Surface Scaffolds for High Avidity Microbial Capture. <i>Biomacromolecules</i> , 2013, 14, 3742-3748.	5.4	28
36	Characterization of Indole-3-acetic Acid Biosynthesis and the Effects of This Phytohormone on the Proteome of the Plant-Associated Microbe <i>Pantoea</i> sp. YR343. <i>Journal of Proteome Research</i> , 2018, 17, 1361-1374.	3.7	28

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37	Mounting of <i>Escherichia coli</i> spheroplasts for AFM imaging. <i>Ultramicroscopy</i> , 2005, 105, 96-102.	1.9	26
38	Alkyl hydroperoxide reductase has a role in oxidative stress resistance and in modulating changes in cell-surface properties in <i>Azospirillum brasilense</i> Sp245. <i>Microbiology (United Kingdom)</i> , 2009, 155, 1192-1202.	1.8	26
39	Lipid Droplets Form from Distinct Regions of the Cell in the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Traffic</i> , 2016, 17, 657-669.	2.7	26
40	A General System for Studying Protein-Protein Interactions in Gram-Negative Bacteria. <i>Journal of Proteome Research</i> , 2008, 7, 3319-3328.	3.7	24
41	Labeling of Phosphatidylinositol Lipid Products in Cells through Metabolic Engineering by Using a Clickable myo-inositol Probe. <i>ChemBioChem</i> , 2019, 20, 172-180.	2.6	24
42	Unexpected Effects of Gene Deletion on Interactions of Mercury with the Methylation-Deficient Mutant <i>hgcAB</i> . <i>Environmental Science and Technology Letters</i> , 2014, 1, 271-276.	8.7	22
43	Proteomics-Based Tools for Evaluation of Cell-Free Protein Synthesis. <i>Analytical Chemistry</i> , 2017, 89, 11443-11451.	6.5	21
44	Volume labeling with Alexa Fluor dyes and surface functionalization of highly sensitive fluorescent silica (SiO <sub>2</sub> ) nanoparticles. <i>Nanoscale</i> , 2013, 5, 10369.	5.6	20
45	Evaluation of Affinity-Tagged Protein Expression Strategies Using Local and Global Isotope Ratio Measurements. <i>Journal of Proteome Research</i> , 2009, 8, 3675-3688.	3.7	18
46	<i>Arabidopsis</i> C-terminal binding protein <i>ANGUSTIFOLIA</i> modulates transcriptional coregulation of <i>MYB46</i> and <i>WRKY33</i> . <i>New Phytologist</i> , 2020, 228, 1627-1639.	7.3	17
47	Modification of plant cell wall chemistry impacts metabolome and microbiome composition in <i>Populus</i> <i>PdKOR1</i> RNAi plants. <i>Plant and Soil</i> , 2018, 429, 349-361.	3.7	16
48	Mathematical modeling of hydrolysate diffusion and utilization in cellulolytic biofilms of the extreme thermophile <i>Caldicellulosiruptor obsidiansis</i> . <i>Bioresource Technology</i> , 2011, 102, 3155-3162.	9.6	15
49	Characterization of cell surface and extracellular matrix remodeling of <i>Azospirillum brasilense</i> chemotaxis-like 1 signal transduction pathway mutants by atomic force microscopy. <i>FEMS Microbiology Letters</i> , 2011, 314, 131-139.	1.8	14
50	Loss of carotenoids from membranes of <i>Pantoea</i> sp. YR343 results in altered lipid composition and changes in membrane biophysical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1338-1345.	2.6	14
51	Simultaneous Discovery of Positive and Negative Interactions Among Rhizosphere Bacteria Using Microwell Recovery Arrays. <i>Frontiers in Microbiology</i> , 2020, 11, 601788.	3.5	14
52	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
53	The effect of retinal pigment epithelial cell patch size on growth factor expression. <i>Biomaterials</i> , 2014, 35, 3999-4004.	11.4	13
54	Microstructured Block Copolymer Surfaces for Control of Microbe Adhesion and Aggregation. <i>Biosensors</i> , 2014, 4, 63-75.	4.7	9

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55	Integrated Proteomics and Lipidomics Reveal That the Swarming Motility of <i>Paenibacillus polymyxa</i> Is Characterized by Phospholipid Modification, Surfactant Deployment, and Flagellar Specialization Relative to Swimming Motility. <i>Frontiers in Microbiology</i> , 2019, 10, 2594.	3.5	9
56	Computationally Guided Discovery and Experimental Validation of Indole-3-acetic Acid Synthesis Pathways. <i>ACS Chemical Biology</i> , 2019, 14, 2867-2875.	3.4	8
57	Carbon Nanofiber Arrays: A Novel Tool for Microdelivery of Biomolecules to Plants. <i>PLoS ONE</i> , 2016, 11, e0153621.	2.5	7
58	Determination of the cellulase activity distribution in <i>Clostridium thermocellum</i> and <i>Caldicellulosiruptor obsidiansis</i> cultures using a fluorescent substrate. <i>Journal of Environmental Sciences</i> , 2015, 34, 212-218.	6.1	6
59	A carotenoid-deficient mutant of the plant-associated microbe <i>Pantoea</i> sp. YR343 displays an altered membrane proteome. <i>Scientific Reports</i> , 2020, 10, 14985.	3.3	6
60	Identification of a diguanylate cyclase expressed in the presence of plants and its application for discovering candidate gene products involved in plant colonization by <i>Pantoea</i> sp. YR343. <i>PLoS ONE</i> , 2021, 16, e0248607.	2.5	5
61	Application of Machine Learning Techniques to an Agent-Based Model of <i>Pantoea</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 726409.	3.5	5
62	Total internal reflection enabled wide-field coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2020, 45, 3087.	3.3	5
63	Continuous live cell imaging of cellulose attachment by microbes under anaerobic and thermophilic conditions using confocal microscopy. <i>Journal of Environmental Sciences</i> , 2013, 25, 849-856.	6.1	4
64	Analysis of the Role of Phosphorylation in Fission Yeast Cdc13p/CyclinB Function. <i>Journal of Biological Chemistry</i> , 2005, 280, 14591-14596.	3.4	3
65	Development of an Experimental Approach to Achieve Spatially Resolved Plant Root-Associated Metaproteomics Using an Agar-Plate System. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 639-649.	2.6	3
66	An in vivo imaging-based assay for detecting protein interactions over a wide range of binding affinities. <i>Analytical Biochemistry</i> , 2009, 395, 166-177.	2.4	2
67	Spatially co-registered wide-field nonlinear optical imaging of living and complex biosystems in a total internal reflection geometry. <i>Analyst</i> , 2021, 146, 3062-3072.	3.5	2
68	Automated Image Analysis of Fluorescence Microscopic Images to Identify Protein-protein Interactions. , 2005, 2006, 797-800.		1
69	Automated Analysis of Fluorescence Microscopy Images to Identify Protein-Protein Interactions. <i>International Journal of Biomedical Imaging</i> , 2006, 2006, 1-10.	3.9	1
70	Analysis of tight junction formation and integrity. , 2012, 2012, 3724-7.		1
71	Using Raman spectroscopy and SERS for in situ studies of rhizosphere bacteria. , 2015, 9550, .		1
72	Nano-Enabled Approaches to Chemical Imaging in Biosystems. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 351-373.	5.4	1

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73	Loss of Carotenoids Impacts Membrane Protein and Lipid Distribution in <i>Pantoea</i> sp. YR343. <i>Biophysical Journal</i> , 2018, 114, 98a.	0.5	1
74	Developing in vitro models of the sub-retinal microenvironment. , 2013, , .		0
75	A Novel Membrane Peptide that Inhibits Cell Migration by Activation of the Receptor Tyrosine Kinase EphA2. <i>Biophysical Journal</i> , 2018, 114, 265a.	0.5	0
76	Total internal reflection enabled wide-field coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2020, 45, 3087.	3.3	0