

Mitchel J Doktycz

List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Distinct Microbial Communities within the Endosphere and Rhizosphere of <i>Populus deltoides</i> Roots across Contrasting Soil Types. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5934-5944.	3.1	524
2	Effects of Engineered Cerium Oxide Nanoparticles on Bacterial Growth and Viability. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7981-7989.	3.1	323
3	Silver Nanocrystallites: Biofabrication using <i>Shewanella oneidensis</i> and an Evaluation of Their Comparative Toxicity on Gram-negative and Gram-positive Bacteria. <i>Environmental Science & Technology</i> , 2010, 44, 5210-5215.	10.0	299
4	Biofabrication of discrete spherical gold nanoparticles using the metal-reducing bacterium <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 2148-2152.	8.3	247
5	Cytotoxicity Induced by Engineered Silver Nanocrystallites Is Dependent on Surface Coatings and Cell Types. <i>Langmuir</i> , 2012, 28, 2727-2735.	3.5	222
6	Relating nanomaterial properties and microbial toxicity. <i>Nanoscale</i> , 2013, 5, 463-474.	5.6	211
7	Intracellular integration of synthetic nanostructures with viable cells for controlled biochemical manipulation. <i>Nanotechnology</i> , 2003, 14, 551-556.	2.6	187
8	AFM imaging of bacteria in liquid media immobilized on gelatin coated mica surfaces. <i>Ultramicroscopy</i> , 2003, 97, 209-216.	1.9	186
9	Comparison of techniques for enzyme immobilization on silicon supports. <i>Enzyme and Microbial Technology</i> , 1999, 24, 26-34.	3.2	164
10	Twenty-One Genome Sequences from <i>Pseudomonas</i> Species and 19 Genome Sequences from Diverse Bacteria Isolated from the Rhizosphere and Endosphere of <i>Populus deltoides</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5991-5993.	2.2	164
11	Atomic force microscopy of biological samples. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 618-634.	6.1	160
12	Monodispersed biocompatible silver sulfide nanoparticles: Facile extracellular biosynthesis using the β -proteobacterium, <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 4253-4258.	8.3	138
13	Nano-enabled synthetic biology. <i>Molecular Systems Biology</i> , 2007, 3, 125.	7.2	124
14	Studies of DNA dumbbells. I. Melting curves of 17 DNA dumbbells with different duplex stem sequences linked by T4 endloops: Evaluation of the nearest-neighbor stacking interactions in DNA. <i>Biopolymers</i> , 1992, 32, 849-864.	2.4	123
15	Expression optimization and synthetic gene networks in cell-free systems. <i>Nucleic Acids Research</i> , 2012, 40, 3763-3774.	14.5	113
16	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
17	Glucose biosensing using an enzyme-coated microcantilever. <i>Applied Physics Letters</i> , 2002, 81, 385-387.	3.3	101
18	Nanoscale control of silica morphology and three-dimensional structure during diatom cell wall formation. <i>Journal of Materials Research</i> , 2006, 21, 2689-2698.	2.6	100

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19	<i>Pseudomonas fluorescens</i> Induces Strain-Dependent and Strain-Independent Host Plant Responses in Defense Networks, Primary Metabolism, Photosynthesis, and Fitness. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 765-778.	2.6	100
20	Evaluation and validation of de novo and hybrid assembly techniques to derive high-quality genome sequences. <i>Bioinformatics</i> , 2014, 30, 2709-2716.	4.1	99
21	Reversible Electrowetting of Vertically Aligned Superhydrophobic Carbon Nanofibers. <i>Langmuir</i> , 2006, 22, 9030-9034.	3.5	98
22	Global Molecular and Morphological Effects of 24-Hour Chromium(VI) Exposure on <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6331-6344.	3.1	96
23	Abiotic Stresses Shift Belowground <i>Populus</i> -Associated Bacteria Toward a Core Stress Microbiome. <i>MSystems</i> , 2018, 3, .	3.8	89
24	Effects of Colistin on Surface Ultrastructure and Nanomechanics of <i>Pseudomonas aeruginosa</i> Cells. <i>Langmuir</i> , 2009, 25, 3728-3733.	3.5	85
25	Optical Melting of 128 Octamer DNA Duplexes. <i>Journal of Biological Chemistry</i> , 1995, 270, 8439-8445.	3.4	72
26	Diversity of <i>Pseudomonas</i> Genomes, Including <i>Populus</i> -Associated Isolates, as Revealed by Comparative Genome Analysis. <i>Applied and Environmental Microbiology</i> , 2016, 82, 375-383.	3.1	70
27	<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
28	Analysis of Polymerase Chain Reaction-Amplified DNA Products by Mass Spectrometry Using Matrix-Assisted Laser Desorption and Electrospray: Current Status. <i>Analytical Biochemistry</i> , 1995, 230, 205-214.	2.4	67
29	Surface Patterning of Silica Nanostructures Using Bio-Inspired Templates and Directed Synthesis. <i>Langmuir</i> , 2004, 20, 8431-8436.	3.5	61
30	Metabolic functions of <i>Pseudomonas fluorescens</i> strains from <i>Populus deltoides</i> depend on rhizosphere or endosphere isolation compartment. <i>Frontiers in Microbiology</i> , 2015, 6, 1118.	3.5	60
31	Toward Microfluidic Reactors for Cell-Free Protein Synthesis at the Point-of-Care. <i>Small</i> , 2016, 12, 810-817.	10.0	60
32	Analysis of melting transitions of the DNA hairpins formed from the oligomer sequences d[GGATAC(X)4GTATCC] (X = A, T, G, C). <i>Biopolymers</i> , 1990, 29, 1715-1734.	2.4	59
33	Modular microfluidics for point-of-care protein purifications. <i>Lab on A Chip</i> , 2015, 15, 1799-1811.	6.0	58
34	Direct atomic force microscope imaging of EcoRI endonuclease site specifically bound to plasmid DNA molecules.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 8826-8829.	7.1	57
35	Pore-scale hydrodynamics influence the spatial evolution of bacterial biofilms in a microfluidic porous network. <i>PLoS ONE</i> , 2019, 14, e0218316.	2.5	55
36	Controlled transport of latex beads through vertically aligned carbon nanofiber membranes. <i>Applied Physics Letters</i> , 2002, 81, 135-137.	3.3	54

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37	Enrichment of Root Endophytic Bacteria from <i>Populus deltoides</i> and Single-Cell-Genomics Analysis. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5698-5708.	3.1	53
38	Detection of Bacterial DNA Polymerase Chain Reaction Products by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 377-382.	1.5	52
39	Improving Spot Homogeneity by Using Polymer Substrates in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Oligonucleotides. <i>Analytical Chemistry</i> , 2001, 73, 2617-2624.	6.5	52
40	Accumulation and Storage of Ionized Duplex DNA Molecules in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 1994, 66, 3416-3422.	6.5	51
41	A surfactant and template-free route for synthesizing ceria nanocrystals with tunable morphologies. <i>Journal of Materials Chemistry</i> , 2010, 20, 7776.	6.7	49
42	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
43	DNA Microarrays Detect 4-Nonylphenol-induced Alterations in Gene Expression During Zebrafish Early Development. <i>Ecotoxicology</i> , 2003, 12, 469-474.	2.4	47
44	Application of AFM in understanding biomineral formation in diatoms. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 456, 127-137.	2.8	47
45	Mapping Individual Cosmid DNAs by Direct AFM Imaging. <i>Genomics</i> , 1997, 41, 379-384.	2.9	46
46	Thermodynamic stability of the 5' dangling-ended DNA hairpins formed from sequences 5'-(XY)2GGATAC(T)4GTATCC-3', where X, Y = A,T,G,C. <i>Biopolymers</i> , 1990, 30, 829-845.	2.4	45
47	Microarrays of Biomimetic Cells Formed by the Controlled Synthesis of Carbon Nanofiber Membranes. <i>Nano Letters</i> , 2004, 4, 1809-1814.	9.1	45
48	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
49	β -(1,3)-Glucan Unmasking in Some <i>Candida albicans</i> Mutants Correlates with Increases in Cell Wall Surface Roughness and Decreases in Cell Wall Elasticity. <i>Infection and Immunity</i> , 2017, 85, .	2.2	44
50	Microscale confinement features can affect biofilm formation. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 895-902.	2.2	42
51	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
52	Diverse and conserved nano- and mesoscale structures of diatom silica revealed by atomic force microscopy. <i>Journal of Microscopy</i> , 2009, 235, 172-187.	1.8	38
53	Continuous protein production in nanoporous, picolitre volume containers. <i>Lab on A Chip</i> , 2011, 11, 3523.	6.0	38
54	Monodisperse alginate microgel formation in a three-dimensional microfluidic droplet generator. <i>Biomicrofluidics</i> , 2012, 6, 44108.	2.4	38

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55	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
56	Sequence Dependence of the Free Energy of B-Z Junction Formation in Deoxyoligonucleotides. <i>Journal of Molecular Biology</i> , 1993, 231, 475-488.	4.2	36
57	Vertically aligned carbon nanofibers as sacrificial templates for nanofluidic structures. <i>Applied Physics Letters</i> , 2003, 82, 976-978.	3.3	34
58	Multi-Input Regulation and Logic with T7 Promoters in Cells and Cell-Free Systems. <i>PLoS ONE</i> , 2013, 8, e78442.	2.5	34
59	Exploration of the Biosynthetic Potential of the <i>Populus</i> Microbiome. <i>MSystems</i> , 2018, 3, .	3.8	34
60	Site-Specific Biochemical Functionalization along the Height of Vertically Aligned Carbon Nanofiber Arrays. <i>Chemistry of Materials</i> , 2006, 18, 3203-3211.	6.7	33
61	Comparison of the indentation and elasticity of <i>E. coli</i> and its spheroplasts by AFM. <i>Ultramicroscopy</i> , 2007, 107, 934-942.	1.9	33
62	Development and fabrication of nanoporous silicon-based bioreactors within a microfluidic chip. <i>Lab on A Chip</i> , 2010, 10, 1174.	6.0	33
63	Fingerprinting of prokaryotic 16S rRNA genes using oligodeoxyribonucleotide microarrays and virtual hybridization. <i>Nucleic Acids Research</i> , 2003, 31, 779-789.	14.5	32
64	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
65	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
66	MALDI-TOF Analysis of Polymerase Chain Reaction Products from Methanotrophic Bacteria. <i>Analytical Chemistry</i> , 1998, 70, 2693-2698.	6.5	30
67	Automated image analysis of atomic force microscopy images of rotavirus particles. <i>Ultramicroscopy</i> , 2006, 106, 829-837.	1.9	30
68	Machine learning–based prediction of enzyme substrate scope: Application to bacterial nitrilases. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 336-347.	2.6	30
69	Effects of Microfabrication Processing on the Electrochemistry of Carbon Nanofiber Electrodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10722-10728.	2.6	29
70	Evaluation of a surface-sampling probe electrospray mass spectrometry system for the analysis of surface-deposited and affinity-captured proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1144-1152.	1.5	29
71	Biochemical functionalization of vertically aligned carbon nanofibres. <i>Nanotechnology</i> , 2006, 17, 2032-2039.	2.6	29
72	<i>In Vivo</i> Protein Dynamics on the Nanometer Length Scale and Nanosecond Time Scale. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1899-1904.	4.6	29

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73	Bacterial Immobilization for Imaging by Atomic Force Microscopy. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	28
74	Thrombin-Mediated Transcriptional Regulation Using DNA Aptamers in DNA-Based Cell-Free Protein Synthesis. <i>ACS Synthetic Biology</i> , 2014, 3, 340-346.	3.8	28
75	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
76	Control of catalyst particle crystallographic orientation in vertically aligned carbon nanofiber synthesis. <i>Carbon</i> , 2006, 44, 1503-1510.	10.3	27
77	Mounting of <i>Escherichia coli</i> spheroplasts for AFM imaging. <i>Ultramicroscopy</i> , 2005, 105, 96-102.	1.9	26
78	Actuatable Membranes Based on Polypyrrole-Coated Vertically Aligned Carbon Nanofibers. <i>ACS Nano</i> , 2008, 2, 247-254.	14.6	26
79	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
80	Towards environmental toxicogenomics – development of a flow-through, high-density DNA hybridization array and its application to ecotoxicity assessment. <i>Science of the Total Environment</i> , 2001, 274, 137-149.	8.0	23
81	Surface Charge- and Space-Dependent Transport of Proteins in Crowded Environments of Nanotailored Posts. <i>ACS Nano</i> , 2010, 4, 3345-3355.	14.6	23
82	New surface radiolabeling schemes of super paramagnetic iron oxide nanoparticles (SPIONs) for biodistribution studies. <i>Nanoscale</i> , 2015, 7, 6545-6555.	5.6	22
83	Comparative analyses of the secondary structures of synthetic and intracellular yeast MFA2 mRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 14614-14621.	7.1	21
84	The chemotaxis-like Che1 pathway has an indirect role in adhesive cell properties of <i>Azospirillum brasilense</i> . <i>FEMS Microbiology Letters</i> , 2011, 323, 105-112.	1.8	21
85	Proteomics-Based Tools for Evaluation of Cell-Free Protein Synthesis. <i>Analytical Chemistry</i> , 2017, 89, 11443-11451.	6.5	21
86	Automated Interpretation and Extraction of Topographic Information from Time of Flight Secondary Ion Mass Spectrometry Data. <i>Scientific Reports</i> , 2017, 7, 17099.	3.3	21
87	Studies of DNA dumbbells. IV. Preparation and melting of a DNA dumbbell with the 16 base-pair sequence 5'-G-T-A-T-C-C-C-T-C-T-G-G-A-T-A-C-3' linked on the ends by dodecyl chains. <i>Biopolymers</i> , 1993, 33, 1765-1777.	2.4	20
88	Volume labeling with Alexa Fluor dyes and surface functionalization of highly sensitive fluorescent silica (SiO ₂) nanoparticles. <i>Nanoscale</i> , 2013, 5, 10369.	5.6	20
89	Elucidating the potential of crude cell extracts for producing pyruvate from glucose. <i>Synthetic Biology</i> , 2018, 3, ysy006.	2.2	20
90	Advances and perspectives in discovery and functional analysis of small secreted proteins in plants. <i>Horticulture Research</i> , 2021, 8, 130.	6.3	20

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91	Energetics of B-Z junction formation in a sixteen base-pair duplex DNA. <i>Journal of Molecular Biology</i> , 1990, 212, 3-6.	4.2	19
92	Controlling the dimensions of carbon nanofiber structures through the electropolymerization of pyrrole. <i>Synthetic Metals</i> , 2007, 157, 282-289.	3.9	18
93	Tailored transport through vertically aligned carbon nanofibre membranes; controlled synthesis, modelling, and passive diffusion experiments. <i>Nanotechnology</i> , 2005, 16, 3101-3109.	2.6	17
94	Molecular transport in a crowded volume created from vertically aligned carbon nanofibres: a fluorescence recovery after photobleaching study. <i>Nanotechnology</i> , 2006, 17, 5659-5668.	2.6	17
95	Increasing access to microfluidics for studying fungi and other branched biological structures. <i>Fungal Biology and Biotechnology</i> , 2019, 6, 1.	5.1	17
96	Cultivating the Bacterial Microbiota of <i>Populus</i> Roots. <i>MSystems</i> , 2021, 6, e0130620.	3.8	17
97	Modification of an Automated Liquid-Handling System for Reagent-Jet, Nanoliter-Level Dispensing. <i>BioTechniques</i> , 2001, 30, 878-885.	1.8	16
98	Effects of sub-minimum inhibitory concentrations of ciprofloxacin on enteroaggregative <i>Escherichia coli</i> and the role of the surface protein dispersin. <i>International Journal of Antimicrobial Agents</i> , 2011, 38, 27-34.	2.5	16
99	Draft Genome Sequence of <i>Rhizobium</i> sp. Strain PDO1-076, a Bacterium Isolated from <i>Populus deltoides</i> . <i>Journal of Bacteriology</i> , 2012, 194, 2383-2384.	2.2	16
100	Nanopipe fabrication using vertically aligned carbon nanofiber templates. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2730.	1.6	15
101	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
102	Elucidating <i>Duramycin</i> 's Bacterial Selectivity and Mode of Action on the Bacterial Cell Envelope. <i>Frontiers in Microbiology</i> , 2018, 9, 219.	3.5	14
103	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
104	Size-selectivity and anomalous subdiffusion of nanoparticles through carbon nanofiber-based membranes. <i>Nanotechnology</i> , 2008, 19, 415301.	2.6	13
105	An optimized nanoparticle separator enabled by electron beam induced deposition. <i>Nanotechnology</i> , 2010, 21, 165303.	2.6	13
106	Model for biological communication in a nanofabricated cell-mimic driven by stochastic resonance. <i>Nano Communication Networks</i> , 2011, 2, 39-49.	2.9	12
107	Enzyme Reactions in Nanoporous, Picoliter Volume Containers. <i>Analytical Chemistry</i> , 2012, 84, 1092-1097.	6.5	12
108	Label-free time- and space-resolved exometabolite sampling of growing plant roots through nanoporous interfaces. <i>Scientific Reports</i> , 2019, 9, 10272.	3.3	12

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109	Formation, characterization and modeling of emergent synthetic microbial communities. Computational and Structural Biotechnology Journal, 2021, 19, 1917-1927.	4.1	12
110	Chapter 4 Biomineralization at the Nanoscale. Methods in Cell Biology, 2008, 90, 61-86.	1.1	11
111	Characterization of extended channel bioreactors for continuous-flow protein production. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	1.2	11
112	A lysate proteome engineering strategy for enhancing cell-free metabolite production. Metabolic Engineering Communications, 2021, 12, e00162.	3.6	11
113	Metaproteomics reveals insights into microbial structure, interactions, and dynamic regulation in defined communities as they respond to environmental disturbance. BMC Microbiology, 2021, 21, 308.	3.3	11
114	Discontinuous Electrophoresis of DNA: Adjusting DNA Mobility by Trailing Ion Net Mobility. Analytical Biochemistry, 1993, 213, 400-406.	2.4	10
115	Studies of DNA dumbbells. V. A DNA triplex formed between a 28 base-pair DNA dumbbell substrate and a 16 base linear single strand. Biopolymers, 1993, 33, 1779-1789.	2.4	10
116	Positional control of catalyst nanoparticles for the synthesis of high density carbon nanofiber arrays. Carbon, 2008, 46, 1378-1383.	10.3	9
117	Electric field induced bacterial flocculation of enteroaggregative Escherichia coli O42. Applied Physics Letters, 2011, 98, 253701.	3.3	9
118	Microstructured Block Copolymer Surfaces for Control of Microbe Adhesion and Aggregation. Biosensors, 2014, 4, 63-75.	4.7	9
119	The Near-Naked Hairless (Hr) Mutation Disrupts Hair Formation but Is Not Due to a Mutation in the Hairless Coding Region. Journal of Investigative Dermatology, 2007, 127, 1605-1614.	0.7	8
120	Effects of ultramicroelectrode dimensions on the electropolymerization of polypyrrole. Journal of Applied Physics, 2009, 105, 124312.	2.5	8
121	Microstencils to generate defined, multi-species patterns of bacteria. Biomicrofluidics, 2015, 9, 064103.	2.4	8
122	Imaging the Root Hair Morphology of Arabidopsis Seedlings in a Two-layer Microfluidic Platform. Journal of Visualized Experiments, 2017, .	0.3	8
123	Computationally Guided Discovery and Experimental Validation of Indole-3-acetic Acid Synthesis Pathways. ACS Chemical Biology, 2019, 14, 2867-2875.	3.4	8
124	Spin-column isolation of DNA-protein interactions from complex protein mixtures for AFM imaging. Ultramicroscopy, 2001, 86, 139-143.	1.9	7
125	Genomes to Life "Center for Molecular and Cellular Systems": A Research Program for Identification and Characterization of Protein Complexes. OMICS A Journal of Integrative Biology, 2002, 6, 287-303.	2.0	7
126	Nanostructured silicon membranes for control of molecular transport. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6P48-C6P52.	1.2	7

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127	Enteroaggregative Escherichia coli: surface protein dispersin increases bacterial uptake of ciprofloxacin. International Journal of Antimicrobial Agents, 2013, 42, 462-465.	2.5	7
128	Fabrication of nanoporous membranes for tuning microbial interactions and biochemical reactions. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 06FM03.	1.2	7
129	While-you-wait proteins? Producing biomolecules at the point of need. Expert Review of Proteomics, 2016, 13, 707-709.	3.0	7
130	Optimized beadmilling of tissues for high-throughput RNA production and microarray-based analyses. Analytical Biochemistry, 2004, 332, 100-108.	2.4	6
131	Layer-by-Layer Templated Assembly of Silica at the Nanoscale. Langmuir, 2013, 29, 2193-2199.	3.5	6
132	A carotenoid-deficient mutant of the plant-associated microbe Pantoea sp. YR343 displays an altered membrane proteome. Scientific Reports, 2020, 10, 14985.	3.3	6
133	Automated High-Throughput Probe Production for DNA Microarray Analysis. BioTechniques, 2003, 34, 402-407.	1.8	5
134	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
135	Cell free translation in engineered picoliter volume containers. , 2009, 2009, 1-4.		5
136	Electrophoresis and detection of tin-labeled DNAs on open-faced gels. Electrophoresis, 1992, 13, 521-528.	2.4	4
137	A Comparison of Hybridization Efficiency between Flat Glass and Channel Glass Solid Supports. Molecular Biotechnology, 2008, 38, 71-80.	2.4	4
138	Targeted Growth Medium Dropouts Promote Aromatic Compound Synthesis in Crude <i>E. coli</i> Cell-Free Systems. ACS Synthetic Biology, 2020, 9, 2986-2997.	3.8	4
139	Identifying sequence similarities between DNA molecules. Ultramicroscopy, 2000, 82, 237-244.	1.9	3
140	Microreactors: Toward Microfluidic Reactors for Cell-Free Protein Synthesis at the Point-of-Care (Small 6/2016). Small, 2016, 12, 690-690.	10.0	3
141	Channel Glass-based Detection of Human Short Insertion/Deletion Polymorphisms by Tandem Hybridization. Molecular Biotechnology, 2008, 38, 145-153.	2.4	2
142	An in vivo imaging-based assay for detecting protein interactions over a wide range of binding affinities. Analytical Biochemistry, 2009, 395, 166-177.	2.4	2
143	Research Highlights: Shear-activated nanotherapeutics. Nanomedicine, 2012, 7, 1653-1655.	3.3	2
144	Nanofluidic interfaces in microfluidic networks. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 06FM01.	1.2	2

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145	Optical melting as a tool for optimizing sequencing by hybridization (SBH) analysis of DNA. , 1995, , .		1
146	<title>Detection and analysis of polymerase chain reaction products by mass spectrometry</title>. , 1997, 2985, 120.		1
147	Instrumentation for continuous array genotyping of short insertion/deletion polymorphisms. , 2003, 4966, 138.		1
148	Reagent Jetting Based Deposition Technologies for Array Construction. Biological and Medical Physics Series, 2005, , 63-72.	0.4	1
149	Automated Image Analysis of Fluorescence Microscopic Images to Identify Protein-protein Interactions. , 2005, 2006, 797-800.		1
150	Adhesion and Formation of Microbial Biofilms in Complex Microfluidic Devices. , 2012, , .		1
151	Using Raman spectroscopy and SERS for in situ studies of rhizosphere bacteria. , 2015, 9550, .		1
152	Nano-Enabled Approaches to Chemical Imaging in Biosystems. Annual Review of Analytical Chemistry, 2018, 11, 351-373.	5.4	1
153	Detection of Bacterial DNA Polymerase Chain Reaction Products by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 377-382.	1.5	1
154	<title>Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels</title>. , 1993, 1891, 27.		0
155	Mapping site-specific endonuclease binding to DNA by direct imaging with atomic force microscopy (AFM). , 1995, , .		0
156	Microbial Cell Imaging Using Atomic Force Microscopy. , 2011, , 45-70.		0
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