Anthony P Malanoski

List of Publications by Year
in descending order

99 papers	3,077 citations	159585 30 h-index	175258 52 g-index
105 all docs	105 docs citations	105 times ranked	3502 citing authors

#	Article	IF	Citations
1	Promoter Identification and Optimization for the Response of Lactobacillus plantarum WCFS1 to the Gram-Negative Pathogen-Associated Molecule N-3-Oxododecanoyl Homoserine Lactone. ACS Biomaterials Science and Engineering, 2023, 9, 5111-5122.	5.2	2
2	Covalently attached liquids as protective coatings. Polymer International, 2021, 70, 701-709.	3.1	5
3	PepVAE: Variational Autoencoder Framework for Antimicrobial Peptide Generation and Activity Prediction. Frontiers in Microbiology, 2021, 12, 725727.	3.5	37
4	Marinobacter atlanticus electrode biofilms differentially regulate gene expression depending on electrode potential and lifestyle. Biofilm, 2021, 3, 100051.	3.8	8
5	Metagenomic and Metatranscriptomic Characterization of a Microbial Community That Catalyzes Both Energy-Generating and Energy-Storing Electrode Reactions. Applied and Environmental Microbiology, 2021, 87, e0167621.	3.1	10
6	A bacterial membrane sculpting protein with BAR domain-like activity. ELife, 2021, 10, .	6.0	6
7	Field Demonstration of a Distributed Microsensor Network for Chemical Detection. Sensors, 2020, 20, 5424.	3.8	1
8	Development of a Colorimetric Sensor for Autonomous, Networked, Real-Time Application. Sensors, 2020, 20, 5857.	3.8	7
9	Environmental Chemical and Biological Sensing Using Colorimetric Arrays. ECS Meeting Abstracts, 2020, MA2020-01, 2268-2268.	0.0	0
10	Engineered living conductive biofilms as functional materials. MRS Communications, 2019, 9, 505-517.	1.8	31
11	Multiplexed, Optical Reflectance Data in Chemical Detection. , 2019, , .		0
12	Complete Genome Sequence of Leisingera aquamixtae R2C4, Isolated from a Self-Regenerating Biocathode Consortium. Microbiology Resource Announcements, 2019, 8, .	0.6	0
13	Relative abundance of â€˜Candidatus Tenderia electrophagaâ€™ is linked to cathodic current in an aerobic biocathode community. Microbial Biotechnology, 2018, 11, 98-111.	4.2	30
14	Development of a Genetic System for Marinobacter atlanticus CP1 (sp. nov.), a Wax Ester Producing Strain Isolated From an Autotrophic Biocathode. Frontiers in Microbiology, 2018, 9, 3176.	3.5	26
15	Redox-gradient driven electron transport in a mixed community anodic biofilm. FEMS Microbiology Ecology, 2018, 94, .	2.7	16
16	Metatranscriptomics Supports the Mechanism for Biocathode Electroautotrophy by â€œ Candidatus Tenderia electrophagaâ€• MSystems, 2017, 2, .	3.8	54
17	Kinetic enhancement in high-activity enzyme complexes attached to nanoparticles. Nanoscale Horizons, 2017, 2, 241-252.	8.0	21
18	Reflectance-based detection for long term environmental monitoring. Heliyon, 2017, 3, e00312.	3.2	4

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19	Improving Sorbents for Glycerol Capture in Biodiesel Refinement. Materials, 2017, 10, 682.	2.9	5
20	Development of a Detection Algorithm for Use with Reflectance-Based, Real-Time Chemical Sensing. Sensors, 2016, 16, 1927.	3.8	4
21	Toward understanding long-distance extracellular electron transport in an electroautotrophic microbial community. Energy and Environmental Science, 2016, 9, 3544-3558.	30.8	69
22	Molecular Mechanisms Contributing to the Growth and Physiology of an Extremophile Cultured with Dielectric Heating. Applied and Environmental Microbiology, 2016, 82, 6233-6246.	3.1	3
23	Complete Genome Sequence of Labrenzia sp. Strain CP4, Isolated from a Self-Regenerating Biocathode Biofilm. Genome Announcements, 2016, 4, .	0.8	1
24	Reflectance-based detection of oxidizers in ambient air. Sensors and Actuators B: Chemical, 2016, 227, 399-402.	7.8	9
25	Porphyrin-modified antimicrobial peptide indicators for detection of bacteria. Sensing and Bio-Sensing Research, 2016, 8, 1-7.	4.2	7
26	Quantum dot based enzyme activity sensors present deviations from Michaelis-Menten kinetic model. , 2016, , .		0
27	â€˜Candidatus Tenderia electrophaga', an uncultivated electroautotroph from a biocathode enrichment. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 2178-2185.	1.7	54
28	Complete Genome Sequence of Marinobacter sp. CP1, Isolated from a Self-Regenerating Biocathode Biofilm. Genome Announcements, 2015, 3, .	0.8	14
29	Nanoparticle-Surface Interactions in Geometrical Separation Devices. Chromatography (Basel), 2015, 2, 567-579.	1.2	0
30	Probing the Enzymatic Activity of Alkaline Phosphatase within Quantum Dot Bioconjugates. Journal of Physical Chemistry C, 2015, 119, 2208-2221.	3.1	62
31	A Previously Uncharacterized, Nonphotosynthetic Member of the Chromatiaceae Is the Primary CO ₂ -Fixing Constituent in a Self-Regenerating Biocathode. Applied and Environmental Microbiology, 2015, 81, 699-712.	3.1	89
32	Metaproteomic evidence of changes in protein expression following a change in electrode potential in a robust biocathode microbiome. Proteomics, 2015, 15, 3486-3496.	2.2	28
33	Modified kinetics of enzymes interacting with nanoparticles. , 2015, , .		1
34	Probing the kinetics of quantum dot-based proteolytic sensors. Analytical and Bioanalytical Chemistry, 2015, 407, 7307-7318.	3.7	37
35	Understanding enzymatic acceleration at nanoparticle interfaces: Approaches and challenges. Nano Today, 2014, 9, 102-131.	11.9	187
36	Adsorption of organophosphates from solution by porous organosilicates: Capillary phase-separation. Microporous and Mesoporous Materials, 2014, 195, 154-160.	4.4	16

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37	Contact angles on surfaces using mean field theory: nanodroplets vs. nanoroughness. Nanoscale, 2014, 6, 5260-5269.	5.6	21
38	Miniaturized reflectance devices for chemical sensing. Measurement Science and Technology, 2014, 25, 095101.	2.6	11
39	Methods for Determining the Uncertainty of Population Estimates Derived from Satellite Imagery and Limited Survey Data: A Case Study of Bo City, Sierra Leone. PLoS ONE, 2014, 9, e112241.	2.5	22
40	Evolving Gene Targets and Technology in Influenza Detection. Molecular Diagnosis and Therapy, 2013, 17, 273-286.	3.8	4
41	Water quality associated public health risk in Bo, Sierra Leone. Environmental Monitoring and Assessment, 2013, 185, 241-251.	2.7	16
42	Extraction of Perchlorate Using Porous Organosilicate Materials. Materials, 2013, 6, 1403-1419.	2.9	2
43	Presumptive self-diagnosis of malaria and other febrile illnesses in Sierra Leone. Pan African Medical Journal, 2013, 15, 34.	0.8	20
44	Considerations in the selection of healthcare providers for mothers and children in Bo, Sierra Leone: reputation, cost and location. International Health, 2012, 4, 307-313.	2.0	24
45	Assembly of a Concentric FÃ¶rster Resonance Energy Transfer Relay on a Quantum Dot Scaffold: Characterization and Application to Multiplexed Protease Sensing. ACS Nano, 2012, 6, 11044-11058.	14.6	115
46	Multiplexed Tracking of Protease Activity Using a Single Color of Quantum Dot Vector and a Time-Gated FÃ¶rster Resonance Energy Transfer Relay. Analytical Chemistry, 2012, 84, 10136-10146.	6.5	97
47	Leapfrog diagnostics: Demonstration of a broad spectrum pathogen identification platform in a resource-limited setting. Health Research Policy and Systems, 2012, 10, 22.	2.8	5
48	Application of resequencing microarrays in microbial detection and characterization. Future Microbiology, 2012, 7, 625-637.	2.0	7
49	Home birth and hospital birth trends in Bo, Sierra Leone. Acta Obstetricia Et Gynecologica Scandinavica, 2012, 91, 750-753.	2.8	10
50	Porphyrin-Embedded Silicate Materials for Detection of Hydrocarbon Solvents. Sensors, 2011, 11, 886-904.	3.8	26
51	Application of cyclic voltammetry to investigate enhanced catalytic current generation by biofilm-modified anodes of Geobacter sulfurreducens strain DL1vs. variant strain KN400. Energy and Environmental Science, 2011, 4, 896-913.	30.8	183
52	Massively multiplexed microbial identification using resequencing DNA microarrays for outbreak investigation. Proceedings of SPIE, 2011, , .	0.8	1
53	Iron chelation by cranberry juice and its impact on Escherichia coli growth. BioFactors, 2011, 37, 121-130.	5.4	22
54	Evaluating the impact of adding energy storage on the performance of a hybrid power system. Energy Conversion and Management, 2011, 52, 2604-2610.	9.2	36

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55	Application of a Broad-Range Resequencing Array for Detection of Pathogens in Desert Dust Samples from Kuwait and Iraq. Applied and Environmental Microbiology, 2011, 77, 4285-4292.	3.1	62
56	Functional and Functionalized Silicate Materials. Materials Research Society Symposia Proceedings, 2011, 1306, 1.	0.1	0
57	Comparative genomic analyses identify the Vibrio harveyi genome sequenced strains BAAâ€1116 and HY01 as Vibrio campbellii. Environmental Microbiology Reports, 2010, 2, 81-89.	2.4	153
58	Broad Spectrum Respiratory Pathogen Analysis of Throat Swabs from Military Recruits Reveals Interference Between Rhinoviruses and Adenoviruses. Microbial Ecology, 2010, 59, 623-634.	2.8	43
59	Enabling methods for community health mapping in developing countries. International Journal of Health Geographics, 2010, 9, 56.	2.5	36
60	Single Assay for Simultaneous Detection and Differential Identification of Human and Avian Influenza Virus Types, Subtypes, and Emergent Variants. PLoS ONE, 2010, 5, e8995.	2.5	25
61	Fluorescent Silicate Materials for the Detection of Paraoxon. Sensors, 2010, 10, 2315-2331.	3.8	26
62	Target amplification for broad spectrum microbial diagnostics and detection. Future Microbiology, 2010, 5, 191-203.	2.0	11
63	Analysis of dust samples from the Middle East using high-density resequencing micro-array RPM-TEI. Proceedings of SPIE, 2010, , .	0.8	2
64	Macroporous silica for concentration of nitroenergetic targets. Talanta, 2010, 81, 1454-1460.	5.5	15
65	Universal Detection and Identification of Avian Influenza Virus by Use of Resequencing Microarrays. Journal of Clinical Microbiology, 2009, 47, 988-993.	3.9	34
66	Media acidification by Escherichia coli in the presence of cranberry juice. BMC Research Notes, 2009, 2, 226.	1.4	7
67	Cowpea mosaic virus nanoscaffold as signal enhancement for DNA microarrays. Biosensors and Bioelectronics, 2009, 25, 48-54.	10.1	18
68	Porphyrin-embedded organosilicas for detection and decontamination. , 2009, , .		1
69	Resequencing Arrays for Diagnostics of Respiratory Pathogens. Methods in Molecular Biology, 2009, 529, 231-257.	0.9	5
70	Testing and Validation of High Density Resequencing Microarray for Broad Range Biothreat Agents Detection. PLoS ONE, 2009, 4, e6569.	2.5	52
71	Broad-spectrum identification and discrimination between biothreat agents and near-neighbor species. Proceedings of SPIE, 2009, , .	0.8	1
72	Discrimination between biothreat agents and â€˜near neighborâ€™ species using a resequencing array. FEMS Immunology and Medical Microbiology, 2008, 54, 356-364.	2.7	17

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73	Resequencing microarray probe design for typing genetically diverse viruses: human rhinoviruses and enteroviruses. BMC Genomics, 2008, 9, 577.	2.8	31
74	Impact of cranberry on Escherichia coli cellular surface characteristics. Biochemical and Biophysical Research Communications, 2008, 377, 992-994.	2.1	23
75	A model of base-call resolution on broad-spectrum pathogen detection resequencing DNA microarrays. Nucleic Acids Research, 2008, 36, 3194-3201.	14.5	12
76	Imprinted Nanoporous Organosilicas for Selective Adsorption of Nitroenergetic Targets. Langmuir, 2008, 24, 9024-9029.	3.5	33
77	A Parametric Study of Sample Lysis and DNA Purification Techniques for Use in Automated Devices. Analytical Letters, 2008, 41, 1701-1719.	1.8	1
78	Using a Resequencing Microarray as a Multiple Respiratory Pathogen Detection Assay. Journal of Clinical Microbiology, 2007, 45, 443-452.	3.9	103
79	Sunlight-catalyzed conversion of cyclic organics with novel mesoporous organosilicas. Catalysis Communications, 2007, 8, 1052-1056.	3.3	18
80	Application of Broad-Spectrum, Sequence-Based Pathogen Identification in an Urban Population. PLoS ONE, 2007, 2, e419.	2.5	33
81	Broad-spectrum respiratory tract pathogen identification using resequencing DNA microarrays. Genome Research, 2006, 16, 527-535.	5.5	130
82	Identifying Influenza Viruses with Resequencing Microarrays. Emerging Infectious Diseases, 2006, 12, 638-646.	4.3	73
83	Automated identification of multiple micro-organisms from resequencing DNA microarrays. Nucleic Acids Research, 2006, 34, 5300-5311.	14.5	50
84	Solidâ€“fluid equilibrium for organic molecules: understanding the link between molecular structure and phase diagrams. Fluid Phase Equilibria, 2005, 228-229, 75-82.	2.5	4
85	Dynamics of the acoustoâ€optic effect in a nematic liquid crystal. Liquid Crystals, 2005, 32, 933-941.	2.2	27
86	Investigating the Interface of Superhydrophobic Surfaces in Contact with Water. Langmuir, 2005, 21, 7805-7811.	3.5	65
87	Visualizing chiral self-assembly. Chaos, 2004, 14, S3-S3.	2.5	8
88	Theory of the acoustic realignment of nematic liquid crystals. Physical Review E, 2004, 69, 021705.	2.1	26
89	Shape Selection in Chiral Self-Assembly. Physical Review Letters, 2004, 93, 158103.	7.8	99
90	In-Situ X-ray Scattering Study of Continuous Silicaâ^'Surfactant Self-Assembly during Steady-State Dip Coating. Journal of Physical Chemistry B, 2003, 107, 7683-7688.	2.6	48

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91	Functional Nanocomposites Prepared by Self-Assembly and Polymerization of Diacetylene Surfactants and Silicic Acid. Journal of the American Chemical Society, 2003, 125, 1269-1277.	13.7	135
92	Lattice density functional theory investigation of pore shape effects. I. Adsorption in single nonperiodic pores. Physical Review E, 2002, 66, 041602.	2.1	17
93	Lattice density functional theory investigation of pore shape effects. II. Adsorption in collections of noninterconnected pores. Physical Review E, 2002, 66, 041603.	2.1	18
94	Monte Carlo Simulation of Amphiphile Self-Assembly during Dip Coating. Materials Research Society Symposia Proceedings, 2000, 636, 121.	0.1	15
95	Modeling Gas Separation Membranes. Materials Research Society Symposia Proceedings, 2000, 651, 1.	0.1	0
96	The phase behavior of a hard sphere chain model of a binaryn-alkane mixture. Journal of Chemical Physics, 2000, 112, 2870-2877.	3.0	12
97	An application of cell theory to molecular models of n-alkane solids. Molecular Physics, 2000, 98, 363-370.	1.7	8
98	Solid-fluid equilibrium in molecular models of n-alkanes. Journal of Chemical Physics, 1999, 110, 664-675.	3.0	50
99	The high density equation of state and solid-fluid equilibrium in systems of freely jointed chains of tangent hard spheres. Journal of Chemical Physics, 1997, 107, 6899-6907.	3.0	58