

Anthony P Malanoski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/570918/publications.pdf>

Version: 2024-02-01

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	Understanding enzymatic acceleration at nanoparticle interfaces: Approaches and challenges. <i>Nano Today</i> , 2014, 9, 102-131.	11.9	187
2	Application of cyclic voltammetry to investigate enhanced catalytic current generation by biofilm-modified anodes of <i>Geobacter sulfurreducens</i> strain DL1 vs. variant strain KN400. <i>Energy and Environmental Science</i> , 2011, 4, 896-913.	30.8	183
3	Comparative genomic analyses identify the <i>Vibrio harveyi</i> genome sequenced strains BAA-1116 and HY01 as <i>Vibrio campbellii</i> . <i>Environmental Microbiology Reports</i> , 2010, 2, 81-89.	2.4	153
4	Functional Nanocomposites Prepared by Self-Assembly and Polymerization of Diacetylene Surfactants and Silicic Acid. <i>Journal of the American Chemical Society</i> , 2003, 125, 1269-1277.	13.7	135
5	Broad-spectrum respiratory tract pathogen identification using resequencing DNA microarrays. <i>Genome Research</i> , 2006, 16, 527-535.	5.5	130
6	Assembly of a Concentric Förster Resonance Energy Transfer Relay on a Quantum Dot Scaffold: Characterization and Application to Multiplexed Protease Sensing. <i>ACS Nano</i> , 2012, 6, 11044-11058.	14.6	115
7	Using a Resequencing Microarray as a Multiple Respiratory Pathogen Detection Assay. <i>Journal of Clinical Microbiology</i> , 2007, 45, 443-452.	3.9	103
8	Shape Selection in Chiral Self-Assembly. <i>Physical Review Letters</i> , 2004, 93, 158103.	7.8	99
9	Multiplexed Tracking of Protease Activity Using a Single Color of Quantum Dot Vector and a Time-Gated Förster Resonance Energy Transfer Relay. <i>Analytical Chemistry</i> , 2012, 84, 10136-10146.	6.5	97
10	A Previously Uncharacterized, Nonphotosynthetic Member of the Chromatiaceae Is the Primary CO ₂ -Fixing Constituent in a Self-Regenerating Biocathode. <i>Applied and Environmental Microbiology</i> , 2015, 81, 699-712.	3.1	89
11	Identifying Influenza Viruses with Resequencing Microarrays. <i>Emerging Infectious Diseases</i> , 2006, 12, 638-646.	4.3	73
12	Toward understanding long-distance extracellular electron transport in an electroautotrophic microbial community. <i>Energy and Environmental Science</i> , 2016, 9, 3544-3558.	30.8	69
13	Investigating the Interface of Superhydrophobic Surfaces in Contact with Water. <i>Langmuir</i> , 2005, 21, 7805-7811.	3.5	65
14	Application of a Broad-Range Resequencing Array for Detection of Pathogens in Desert Dust Samples from Kuwait and Iraq. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4285-4292.	3.1	62
15	Probing the Enzymatic Activity of Alkaline Phosphatase within Quantum Dot Bioconjugates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2208-2221.	3.1	62
16	The high density equation of state and solid-fluid equilibrium in systems of freely jointed chains of tangent hard spheres. <i>Journal of Chemical Physics</i> , 1997, 107, 6899-6907.	3.0	58
17	Metatranscriptomics Supports the Mechanism for Biocathode Electroautotrophy by <i>Candidatus Tenderia electrophaga</i> . <i>MSystems</i> , 2017, 2, .	3.8	54
18	' <i>Candidatus Tenderia electrophaga</i> ', an uncultivated electroautotroph from a biocathode enrichment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 2178-2185.	1.7	54

#	ARTICLE	IF	CITATIONS
19	Testing and Validation of High Density Resequencing Microarray for Broad Range Biothreat Agents Detection. PLoS ONE, 2009, 4, e6569.	2.5	52
20	Solid-fluid equilibrium in molecular models of n-alkanes. Journal of Chemical Physics, 1999, 110, 664-675.	3.0	50
21	Automated identification of multiple micro-organisms from resequencing DNA microarrays. Nucleic Acids Research, 2006, 34, 5300-5311.	14.5	50
22	In-Situ X-ray Scattering Study of Continuous Silica-Surfactant Self-Assembly during Steady-State Dip Coating. Journal of Physical Chemistry B, 2003, 107, 7683-7688.	2.6	48
23	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
24	Probing the kinetics of quantum dot-based proteolytic sensors. Analytical and Bioanalytical Chemistry, 2015, 407, 7307-7318.	3.7	37
25	PepVAE: Variational Autoencoder Framework for Antimicrobial Peptide Generation and Activity Prediction. Frontiers in Microbiology, 2021, 12, 725727.	3.5	37
26	Enabling methods for community health mapping in developing countries. International Journal of Health Geographics, 2010, 9, 56.	2.5	36
27	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
28	Universal Detection and Identification of Avian Influenza Virus by Use of Resequencing Microarrays. Journal of Clinical Microbiology, 2009, 47, 988-993.	3.9	34
29	Imprinted Nanoporous Organosilicas for Selective Adsorption of Nitroenergetic Targets. Langmuir, 2008, 24, 9024-9029.	3.5	33
30	Application of Broad-Spectrum, Sequence-Based Pathogen Identification in an Urban Population. PLoS ONE, 2007, 2, e419.	2.5	33
31	Resequencing microarray probe design for typing genetically diverse viruses: human rhinoviruses and enteroviruses. BMC Genomics, 2008, 9, 577.	2.8	31
32	Engineered living conductive biofilms as functional materials. MRS Communications, 2019, 9, 505-517.	1.8	31
33	Relative abundance of <i>Candidatus Tenderia electrophaga</i> ™ is linked to cathodic current in an aerobic biocathode community. Microbial Biotechnology, 2018, 11, 98-111.	4.2	30
34	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
35	Dynamics of the acousto-optic effect in a nematic liquid crystal. Liquid Crystals, 2005, 32, 933-941.	2.2	27
36	Theory of the acoustic realignment of nematic liquid crystals. Physical Review E, 2004, 69, 021705.	2.1	26

#	ARTICLE	IF	CITATIONS
37	Fluorescent Silicate Materials for the Detection of Paraoxon. <i>Sensors</i> , 2010, 10, 2315-2331.	3.8	26
38	Porphyrin-Embedded Silicate Materials for Detection of Hydrocarbon Solvents. <i>Sensors</i> , 2011, 11, 886-904.	3.8	26
39	Development of a Genetic System for <i>Marinobacter atlanticus</i> CP1 (sp. nov.), a Wax Ester Producing Strain Isolated From an Autotrophic Biocathode. <i>Frontiers in Microbiology</i> , 2018, 9, 3176.	3.5	26
40	Single Assay for Simultaneous Detection and Differential Identification of Human and Avian Influenza Virus Types, Subtypes, and Emergent Variants. <i>PLoS ONE</i> , 2010, 5, e8995.	2.5	25
41	Considerations in the selection of healthcare providers for mothers and children in Bo, Sierra Leone: reputation, cost and location. <i>International Health</i> , 2012, 4, 307-313.	2.0	24
42	Impact of cranberry on <i>Escherichia coli</i> cellular surface characteristics. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 992-994.	2.1	23
43	Iron chelation by cranberry juice and its impact on <i>Escherichia coli</i> growth. <i>BioFactors</i> , 2011, 37, 121-130.	5.4	22
44	Methods for Determining the Uncertainty of Population Estimates Derived from Satellite Imagery and Limited Survey Data: A Case Study of Bo City, Sierra Leone. <i>PLoS ONE</i> , 2014, 9, e112241.	2.5	22
45	Contact angles on surfaces using mean field theory: nanodroplets vs. nanoroughness. <i>Nanoscale</i> , 2014, 6, 5260-5269.	5.6	21
46	Kinetic enhancement in high-activity enzyme complexes attached to nanoparticles. <i>Nanoscale Horizons</i> , 2017, 2, 241-252.	8.0	21
47	Presumptive self-diagnosis of malaria and other febrile illnesses in Sierra Leone. <i>Pan African Medical Journal</i> , 2013, 15, 34.	0.8	20
48	Lattice density functional theory investigation of pore shape effects. II. Adsorption in collections of noninterconnected pores. <i>Physical Review E</i> , 2002, 66, 041603.	2.1	18
49	Sunlight-catalyzed conversion of cyclic organics with novel mesoporous organosilicas. <i>Catalysis Communications</i> , 2007, 8, 1052-1056.	3.3	18
50	Cowpea mosaic virus nanoscaffold as signal enhancement for DNA microarrays. <i>Biosensors and Bioelectronics</i> , 2009, 25, 48-54.	10.1	18
51	Lattice density functional theory investigation of pore shape effects. I. Adsorption in single nonperiodic pores. <i>Physical Review E</i> , 2002, 66, 041602.	2.1	17
52	Discrimination between biothreat agents and "near neighbor"™ species using a resequencing array. <i>FEMS Immunology and Medical Microbiology</i> , 2008, 54, 356-364.	2.7	17
53	Water quality associated public health risk in Bo, Sierra Leone. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 241-251.	2.7	16
54	Adsorption of organophosphates from solution by porous organosilicates: Capillary phase-separation. <i>Microporous and Mesoporous Materials</i> , 2014, 195, 154-160.	4.4	16

#	ARTICLE	IF	CITATIONS
55	Redox-gradient driven electron transport in a mixed community anodic biofilm. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	16
56	Monte Carlo Simulation of Amphiphile Self-Assembly during Dip Coating. <i>Materials Research Society Symposia Proceedings</i> , 2000, 636, 121.	0.1	15
57	Macroporous silica for concentration of nitroenergetic targets. <i>Talanta</i> , 2010, 81, 1454-1460.	5.5	15
58	Complete Genome Sequence of <i>Marinobacter</i> sp. CP1, Isolated from a Self-Regenerating Biocathode Biofilm. <i>Genome Announcements</i> , 2015, 3, .	0.8	14
59	The phase behavior of a hard sphere chain model of a binaryn-alkane mixture. <i>Journal of Chemical Physics</i> , 2000, 112, 2870-2877.	3.0	12
60	A model of base-call resolution on broad-spectrum pathogen detection resequencing DNA microarrays. <i>Nucleic Acids Research</i> , 2008, 36, 3194-3201.	14.5	12
61	Target amplification for broad spectrum microbial diagnostics and detection. <i>Future Microbiology</i> , 2010, 5, 191-203.	2.0	11
62	Miniaturized reflectance devices for chemical sensing. <i>Measurement Science and Technology</i> , 2014, 25, 095101.	2.6	11
63	Home birth and hospital birth trends in Bo, Sierra Leone. <i>Acta Obstetricia Et Gynecologica Scandinavica</i> , 2012, 91, 750-753.	2.8	10
64	Metagenomic and Metatranscriptomic Characterization of a Microbial Community That Catalyzes Both Energy-Generating and Energy-Storing Electrode Reactions. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0167621.	3.1	10
65	Reflectance-based detection of oxidizers in ambient air. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 399-402.	7.8	9
66	An application of cell theory to molecular models of n-alkane solids. <i>Molecular Physics</i> , 2000, 98, 363-370.	1.7	8
67	Visualizing chiral self-assembly. <i>Chaos</i> , 2004, 14, S3-S3.	2.5	8
68	<i>Marinobacter atlanticus</i> electrode biofilms differentially regulate gene expression depending on electrode potential and lifestyle. <i>Biofilm</i> , 2021, 3, 100051.	3.8	8
69	Media acidification by <i>Escherichia coli</i> in the presence of cranberry juice. <i>BMC Research Notes</i> , 2009, 2, 226.	1.4	7
70	Application of resequencing microarrays in microbial detection and characterization. <i>Future Microbiology</i> , 2012, 7, 625-637.	2.0	7
71	Porphyrin-modified antimicrobial peptide indicators for detection of bacteria. <i>Sensing and Bio-Sensing Research</i> , 2016, 8, 1-7.	4.2	7
72	Development of a Colorimetric Sensor for Autonomous, Networked, Real-Time Application. <i>Sensors</i> , 2020, 20, 5857.	3.8	7

#	ARTICLE	IF	CITATIONS
73	A bacterial membrane sculpting protein with BAR domain-like activity. <i>ELife</i> , 2021, 10, .	6.0	6
74	Leapfrog diagnostics: Demonstration of a broad spectrum pathogen identification platform in a resource-limited setting. <i>Health Research Policy and Systems</i> , 2012, 10, 22.	2.8	5
75	Improving Sorbents for Glycerol Capture in Biodiesel Refinement. <i>Materials</i> , 2017, 10, 682.	2.9	5
76	Covalently attached liquids as protective coatings. <i>Polymer International</i> , 2021, 70, 701-709.	3.1	5
77	Resequencing Arrays for Diagnostics of Respiratory Pathogens. <i>Methods in Molecular Biology</i> , 2009, 529, 231-257.	0.9	5
78	Solid-liquid equilibrium for organic molecules: understanding the link between molecular structure and phase diagrams. <i>Fluid Phase Equilibria</i> , 2005, 228-229, 75-82.	2.5	4
79	Evolving Gene Targets and Technology in Influenza Detection. <i>Molecular Diagnosis and Therapy</i> , 2013, 17, 273-286.	3.8	4
80	Development of a Detection Algorithm for Use with Reflectance-Based, Real-Time Chemical Sensing. <i>Sensors</i> , 2016, 16, 1927.	3.8	4
81	Reflectance-based detection for long term environmental monitoring. <i>Heliyon</i> , 2017, 3, e00312.	3.2	4
82	Molecular Mechanisms Contributing to the Growth and Physiology of an Extremophile Cultured with Dielectric Heating. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6233-6246.	3.1	3
83	Analysis of dust samples from the Middle East using high-density resequencing micro-array RPM-TEI. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
84	Extraction of Perchlorate Using Porous Organosilicate Materials. <i>Materials</i> , 2013, 6, 1403-1419.	2.9	2
85	Promoter Identification and Optimization for the Response of <i>Lactobacillus plantarum</i> WCFS1 to the Gram-Negative Pathogen-Associated Molecule <i>N</i> -3-Oxododecanoyl Homoserine Lactone. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 5111-5122.	5.2	2
86	A Parametric Study of Sample Lysis and DNA Purification Techniques for Use in Automated Devices. <i>Analytical Letters</i> , 2008, 41, 1701-1719.	1.8	1
87	Porphyrim-embedded organosilicas for detection and decontamination. , 2009, , .		1
88	Massively multiplexed microbial identification using resequencing DNA microarrays for outbreak investigation. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
89	Modified kinetics of enzymes interacting with nanoparticles. , 2015, , .		1
90	Complete Genome Sequence of <i>Labrenzia</i> sp. Strain CP4, Isolated from a Self-Regenerating Biocathode Biofilm. <i>Genome Announcements</i> , 2016, 4, .	0.8	1

#	ARTICLE	IF	CITATIONS
91	Field Demonstration of a Distributed Microsensor Network for Chemical Detection. <i>Sensors</i> , 2020, 20, 5424.	3.8	1
92	Broad-spectrum identification and discrimination between biothreat agents and near-neighbor species. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
93	Modeling Gas Separation Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2000, 651, 1.	0.1	0
94	Functional and Functionalized Silicate Materials. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1306, 1.	0.1	0
95	Nanoparticle-Surface Interactions in Geometrical Separation Devices. <i>Chromatography (Basel)</i> , 2015, 2, 567-579.	1.2	0
96	Quantum dot based enzyme activity sensors present deviations from Michaelis-Menten kinetic model. , 2016, , .		0
97	Multiplexed, Optical Reflectance Data in Chemical Detection. , 2019, , .		0
98	Complete Genome Sequence of <i>Leisingera aquamixtae</i> R2C4, Isolated from a Self-Regenerating Biocathode Consortium. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	0
99	Environmental Chemical and Biological Sensing Using Colorimetric Arrays. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2268-2268.	0.0	0