Daniel E Barlow

List of Publications by Year
in descending order

36 papers	2,087 citations	304368 22 h-index	360668 35 g-index
36 all docs	36 docs citations	36 times ranked	2332 citing authors

#	Article	IF	Citations
1	Comparison of two diphenyl polyenes as acidâ€sensitive additives during the biodegradation of a thermoset polyester polyurethane coating. Journal of Applied Microbiology, 2022, 132, 351-364.	1.4	5
2	Colonization and degradation of polyurethane coatings by Pseudomonas protegens biofilms is promoted by PueA and PueB hydrolases. International Biodeterioration and Biodegradation, 2021, 156, 105121.	1.9	14
3	Differential detection of immune cell activation by label-free radiation pressure force. Analyst, The, 2021, 146, 5150-5159.	1.7	0
4	Current progress towards understanding the biodegradation of synthetic condensation polymers with active hydrolases. Polymer International, 2020, 70, 977.	1.6	9
5	Stabilization of reduced copper on ceria aerogels for CO oxidation. Nanoscale Advances, 2020, 2, 4547-4556.	2.2	12
6	Edge-Localized Biodeterioration and Secondary Microplastic Formation by Papiliotrema laurentii Unsaturated Biofilm Cells on Polyurethane Films. Langmuir, 2020, 36, 1596-1607.	1.6	29
7	Flow-Through Optical Chromatography in Combination with Confocal Raman Microspectroscopy: A Novel Label-Free Approach To Detect Responses of Live Macrophages to Environmental Stimuli. ACS Omega, 2019, 4, 12938-12947.	1.6	2
8	The biodegradation of polyester and polyester polyurethane coatings using Papiliotrema laurentii. International Biodeterioration and Biodegradation, 2019, 139, 34-43.	1.9	30
9	High-performance nanomaterials formed by rigid yet extensible cyclic Î²-peptide polymers. Nature Communications, 2018, 9, 4090.	5.8	15
10	Imaging Active Surface Processes in Barnacle Adhesive Interfaces. Langmuir, 2016, 32, 541-550.	1.6	31
11	Carbon Catabolite Repression and Impranil Polyurethane Degradation in Pseudomonas protegens Strain Pf-5. Applied and Environmental Microbiology, 2016, 82, 6080-6090.	1.4	93
12	Molecular Mechanisms Contributing to the Growth and Physiology of an Extremophile Cultured with Dielectric Heating. Applied and Environmental Microbiology, 2016, 82, 6233-6246.	1.4	3
13	The importance of correcting for variable probeâ€“sample interactions in AFM-IR spectroscopy: AFM-IR of dried bacteria on a polyurethane film. Analyst, The, 2016, 141, 4848-4854.	1.7	40
14	The applicability of ImpranilÂ®DLN for gauging the biodegradation of polyurethanes. Polymer Degradation and Stability, 2015, 120, 178-185.	2.7	50
15	Differences in Physical and Biochemical Properties of Thermus scotoductus SA-01 Cultured with Dielectric or Convection Heating. Applied and Environmental Microbiology, 2015, 81, 6285-6293.	1.4	7
16	Growth and development of the barnacleAmphibalanus amphitrite: time and spatially resolved structure and chemistry of the base plate. Biofouling, 2014, 30, 799-812.	0.8	55
17	A direct quantitative agar-plate based assay for analysis of Pseudomonas protegens Pf-5 degradation of polyurethane films. International Biodeterioration and Biodegradation, 2014, 95, 311-319.	1.9	24
18	The impact of culture medium on the development and physiology of biofilms ofPseudomonas fluorescensformed on polyurethane paint. Biofouling, 2013, 29, 601-615.	0.8	8

#	Article	IF	Citations
19	High-Density Amine-Terminated Monolayers Formed on Fluorinated CVD-Grown Graphene. Langmuir, 2012, 28, 7957-7961.	1.6	67
20	Optical Spectroscopy of Marine Bioadhesive Interfaces. Annual Review of Analytical Chemistry, 2012, 5, 229-251.	2.8	17
21	Barnacle Balanus amphitrite Adheres by a Stepwise Cementing Process. Langmuir, 2012, 28, 13364-13372.	1.6	54
22	Characterization of the Adhesive Plaque of the Barnacle Balanus amphitrite: Amyloid-Like Nanofibrils Are a Major Component. Langmuir, 2010, 26, 6549-6556.	1.6	178
23	In situATRâ€“FTIR characterization of primary cement interfaces of the barnacleBalanus amphitrite. Biofouling, 2009, 25, 359-366.	0.8	60
24	The Assembly of Single-Layer Graphene Oxide and Graphene Using Molecular Templates. Nano Letters, 2008, 8, 3141-3145.	4.5	145
25	Site-Specific Chemistry of Ethylene on Si(114)-(2 Ã— 1). Journal of Physical Chemistry C, 2008, 112, 3349-3357.	1.5	1
26	Semiconductor Surface-Induced 1,3-Hydrogen Shift:Â The Role of Covalent vs Zwitterionic Character. Journal of the American Chemical Society, 2006, 128, 11054-11061.	6.6	12
27	Chemical Structure and Orientation of Ethylene on Si(114)â˜'(2Ã—1)/c(2Ã—2). Journal of Physical Chemistry B, 2006, 110, 6841-6847.	1.2	6
28	Adsorption of Acrylonitrile on Diamond and Silicon (001)â˜'(2 Ã— 1) Surfaces:Â Effects of Dimer Structure on Reaction Pathways and Product Distributions. Journal of the American Chemical Society, 2005, 127, 8348-8354.	6.6	24
29	Scanning Tunneling Microscopy Study of the Structure and Orbital-Mediated Tunneling Spectra of Cobalt(II) Phthalocyanine and Cobalt(II) Tetraphenylporphyrin on Au(111):Â Mixed Composition Films. Langmuir, 2004, 20, 4413-4421.	1.6	160
30	Scanning tunneling microscopy of 1, 2, and 3 layers of electroactive compounds. Ultramicroscopy, 2003, 97, 47-53.	0.8	29
31	A Self-Organized Two-Dimensional Bimolecular Structure. Journal of Physical Chemistry B, 2003, 107, 2903-2909.	1.2	124
32	Scanning Tunneling Microscopy, Orbital-Mediated Tunneling Spectroscopy, and Ultraviolet Photoelectron Spectroscopy of Nickel(II) Octaethylporphyrin Deposited from Vapor. Journal of Physical Chemistry B, 2002, 106, 996-1003.	1.2	133
33	Scanning Tunneling Microscopy, Orbital-Mediated Tunneling Spectroscopy, and Ultraviolet Photoelectron Spectroscopy of Metal(II) Tetraphenylporphyrins Deposited from Vapor. Journal of the American Chemical Society, 2001, 123, 4073-4080.	6.6	246
34	Physical Properties and Metal Ion Specific Scanning Tunneling Microscopy Images of Metal(II) Tetraphenylporphyrins Deposited from Vapor onto Gold (111). Journal of Physical Chemistry B, 2000, 104, 11899-11905.	1.2	198
35	Orbital Mediated Tunneling in Vanadyl Phthalocyanine Observed in both Tunnel Diode and STM Environments. Journal of Physical Chemistry B, 2000, 104, 2444-2447.	1.2	75
36	A Scanning Tunneling Microscopy and Spectroscopy Study of Vanadyl Phthalocyanine on Au(111):Â the Effect of Oxygen Binding and Orbital Mediated Tunneling on the Apparent Corrugation. Journal of Physical Chemistry B, 2000, 104, 5993-6000.	1.2	131