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	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
2	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
3	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
4	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
5	The Assembly of Single-Layer Graphene Oxide and Graphene Using Molecular Templates. Nano Letters, 2008, 8, 3141-3145.	4.5	145
6	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
7	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
8	A Self-Organized Two-Dimensional Bimolecular Structure. Journal of Physical Chemistry B, 2003, 107, 2903-2909.	1.2	124
9	Carbon Catabolite Repression and Impranil Polyurethane Degradation in Pseudomonas protegens Strain Pf-5. Applied and Environmental Microbiology, 2016, 82, 6080-6090.	1.4	93
10	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
11	High-Density Amine-Terminated Monolayers Formed on Fluorinated CVD-Grown Graphene. Langmuir, 2012, 28, 7957-7961.	1.6	67
12	In situATRâ€“FTIR characterization of primary cement interfaces of the barnacleBalanus amphitrite. Biofouling, 2009, 25, 359-366.	0.8	60
13	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
14	Barnacle Balanus amphitrite Adheres by a Stepwise Cementing Process. Langmuir, 2012, 28, 13364-13372.	1.6	54
15	The applicability of ImpranilÂ®DLN for gauging the biodegradation of polyurethanes. Polymer Degradation and Stability, 2015, 120, 178-185.	2.7	50
16	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
17	Imaging Active Surface Processes in Barnacle Adhesive Interfaces. Langmuir, 2016, 32, 541-550.	1.6	31
18	The biodegradation of polyester and polyester polyurethane coatings using Papiliotrema laurentii. International Biodeterioration and Biodegradation, 2019, 139, 34-43.	1.9	30

#	Article	IF	Citations
19	Scanning tunneling microscopy of 1, 2, and 3 layers of electroactive compounds. Ultramicroscopy, 2003, 97, 47-53.	0.8	29
20	Edge-Localized Biodeterioration and Secondary Microplastic Formation by Papiliotrema laurentii Unsaturated Biofilm Cells on Polyurethane Films. Langmuir, 2020, 36, 1596-1607.	1.6	29
21	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
22	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
23	Optical Spectroscopy of Marine Bioadhesive Interfaces. Annual Review of Analytical Chemistry, 2012, 5, 229-251.	2.8	17
24	High-performance nanomaterials formed by rigid yet extensible cyclic Î²-peptide polymers. Nature Communications, 2018, 9, 4090.	5.8	15
25	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
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	Stabilization of reduced copper on ceria aerogels for CO oxidation. Nanoscale Advances, 2020, 2, 4547-4556.	2.2	12
28	Current progress towards understanding the biodegradation of synthetic condensation polymers with active hydrolases. Polymer International, 2020, 70, 977.	1.6	9
29	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
30	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
31	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
32	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
33	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
34	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
35	Site-Specific Chemistry of Ethylene on Si(114)-(2 Ã— 1). Journal of Physical Chemistry C, 2008, 112, 3349-3357.	1.5	1
36	Differential detection of immune cell activation by label-free radiation pressure force. Analyst, The, 2021, 146, 5150-5159.	1.7	0