

Daniel B Dougherty

List of Publications by Year in descending order

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49
papers

1,127
citations

471509

17
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

2191
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of domain boundaries at metal-organic interfaces. Journal of Chemical Physics, 2021, 154, 124704.	3.0	1
2	Timescales of excited state relaxation in $\text{Ru}(\text{bpy})_3^{3+}$ observed by time-resolved two-photon photoemission spectroscopy. Physical Review B, 2021, 103, .	3.2	1
3	Band Edge Control of Quasi-2D Metal Halide Perovskites for Blue Light-Emitting Diodes with Enhanced Performance. Advanced Functional Materials, 2021, 31, 2103299.	14.9	28
4	An interface-controlled Mott memristor in RuCl_3 . Applied Physics Letters, 2020, 116, 183501.	3.3	2
5	Direct molecular quantification of electronic disorder in Technology B:Nanotechnology and Microelectronics, 2020, 38, 053401.	1.2	3
6	Growth-temperature dependence of conductivity at the $\text{LaCrO}_3/\text{SrTiO}_3$ (001) interface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	5
7	Suppression of dynamic disorder in fullerenes at metal-organic interfaces. Journal of Chemical Physics, 2019, 151, 214706.	3.0	1
8	Spatially Uniform Shallow Trap Distribution in an Ultrathin Organic Transistor. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800486.	2.4	6
9	Tunable Optical and Photocatalytic Properties of Low-Dimensional Copper(I)-Iodide Hybrids Using Coordinating Organic Ligands. Crystal Growth and Design, 2018, 18, 5406-5416.	3.0	16
10	Temperature controlled interlayer disorder in ultrathin films of 1,3,6 -sexithiophene. Thin Solid Films, 2017, 642, 182-187.	1.8	2
11	Monitoring Charge Separation Processes in Quasi-One-Dimensional Organic Crystalline Structures. Nano Letters, 2017, 17, 6056-6061.	9.1	5
12	Tuning interfacial spin filters from metallic to resistive within a single organic semiconductor family. Physical Review B, 2017, 95, .	3.2	8
13	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. ACS Applied Materials & Interfaces, 2017, 9, 43886-43892.	8.0	40
14	Coverage dependent molecular assembly of anthraquinone on Au(111). Journal of Chemical Physics, 2017, 147, 184701.	3.0	3
15	Significantly Increasing the Ductility of High Performance Polymer Semiconductors through Polymer Blending. ACS Applied Materials & Interfaces, 2016, 8, 14037-14045.	8.0	68
16	Morphological, Optical, and Electronic Consequences of Coexisting Crystal Orientations in Cu^2+ -Copper Phthalocyanine Thin Films. Journal of Physical Chemistry C, 2016, 120, 18616-18621.	3.1	15
17	Intrinsic Charge Trapping Observed as Surface Potential Variations in diF-TES-ADT Films. ACS Applied Materials & Interfaces, 2016, 8, 21490-21496.	8.0	2
18	$\text{CuNb}_x\text{Ta}_{1-x}\text{O}_3$ ($x \approx 0.25$) solid solutions: impact of Ta substitution and Cu deficiency on their structure, photocatalytic, and photoelectrochemical properties. Journal of Materials Chemistry A, 2016, 4, 3115-3126.	10.3	28

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19	Growth of thermally stable crystalline C ₆₀ films on flat-lying copper phthalocyanine. Journal of Materials Chemistry A, 2016, 4, 1028-1032.	10.3	2
20	Indirect coupling of an organic semiconductor to a d -orbital surface state. Physical Review B, 2015, 92, .	3.2	1
21	Disruption of Molecular Ordering over Several Layers near the Au/2,8-Difluoro-5,11-bis(triethylsilylethynyl) Anthradithiophene Interface. Crystal Growth and Design, 2015, 15, 822-828.	3.0	3
22	Coverage-dependent surface magnetism of iron phthalocyanine on an O-Fe(110) surface. Physical Review B, 2014, 90, .	3.2	7
23	Coexisting Bi and Se surface terminations of cleaved Bi ₂ Se ₃ single crystals. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	1.2	25
24	Toward Single-Crystal Hybrid-Carbon Electronics: Impact of Graphene Substrate Defect Density on Copper Phthalocyanine Film Growth. Crystal Growth and Design, 2014, 14, 4394-4401.	3.0	7
25	Copper Deficiency in the p-Type Semiconductor Cu _{1-x} Nb ₃ O ₈ . Chemistry of Materials, 2014, 26, 2095-2104.	6.7	35
26	Optical second-harmonic generation induced by electric current in graphene on Si and SiC substrates. Physical Review B, 2014, 89, .	3.2	64
27	Extrinsic origins of electronic disorder in 2D organic crystals. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	1.2	5
28	Iron(ii) spin crossover films on Au(111): scanning probe microscopy and photoelectron spectroscopy. Chemical Communications, 2013, 49, 10446.	4.1	69
29	Improved graphene growth in UHV: Pit-free surfaces by selective Si etching of SiC(0001) with atomic hydrogen. Surface Science, 2013, 611, 25-31.	1.9	15
30	Modification of Molecular Spin Crossover in Ultrathin Films. Nano Letters, 2013, 13, 1429-1434.	9.1	83
31	Smooth MgO films grown on graphite and graphene by pulsed laser deposition. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	1.2	6
32	Effect of p-type doping on the oxidation of H ₂ Si(111) studied by second-harmonic generation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 040603.	2.1	6
33	Complex Materials for Molecular Spintronics Applications: Cobalt Bis(dioxolene) Valence Tautomers, from Molecules to Polymers. Journal of Physical Chemistry B, 2012, 116, 13141-13148.	2.6	42
34	Band Formation in a Molecular Quantum Well via 2D Superatom Orbital Interactions. Physical Review Letters, 2012, 109, 266802.	7.8	42
35	Role of Fluorine Interactions in the Self-Assembly of a Functionalized Anthradithiophene Monolayer on Au(111). Journal of Physical Chemistry C, 2012, 116, 21465-21471.	3.1	9
36	Multiple coexisting intercalation structures of sodium in epitaxial graphene-SiC interfaces. Physical Review B, 2012, 85, .	3.2	46

#	ARTICLE	IF	CITATIONS
37	Scanning tunneling microscopy of a disordered Alq ₃ metal interface. <i>Organic Electronics</i> , 2011, 12, 1920-1926.	2.6	3
38	Modeling the constant-current distance-voltage mode of scanning tunneling spectroscopy. <i>Physical Review B</i> , 2011, 84, .	3.2	28
39	Gold adatom as a key structural component in self-assembled monolayers of organosulfur molecules on Au(111). <i>Progress in Surface Science</i> , 2010, 85, 206-240.	8.3	249
40	Incomplete screening by epitaxial graphene on the Si face of 6H-SiC(0001). <i>Applied Physics Letters</i> , 2010, 97, 113104.	3.3	15
41	Impact of Local Molecular Environment on the Decay of Image Potential States. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2613-2617.	4.6	7
42	Striped domains at the pentacene:C60 interface. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	26
43	C ₆₀ Pentacene Network Formation by 2-D Co-Crystallization. <i>Langmuir</i> , 2009, 25, 9857-9862.	3.5	20
44	Molecular self-assembly guided by surface reconstruction: CH ₃ SH monolayer on the Au(111) surface. <i>Surface Science</i> , 2008, 602, 2017-2024.	1.9	19
45	Self-assembly of 2,6-dimethylpyridine on Cu(110) directed by weak hydrogen bonding. <i>Surface Science</i> , 2007, 601, L91-L94.	1.9	7
46	Assembly of Linear Clusters of Iodobenzene Dimers on Cu(110). <i>Journal of Physical Chemistry B</i> , 2006, 110, 20077-20080.	2.6	12
47	Chemisorbed Benzoate-to-Benzene Conversion via Phenyl Radicals on Cu(110): Kinetic Observation of Conformational Effects. <i>Journal of the American Chemical Society</i> , 2006, 128, 6008-6009.	13.7	13
48	Edge-On Bonding of Benzene Molecules in the Second Adsorbed Layer on Cu(110). <i>Journal of Physical Chemistry B</i> , 2006, 110, 15645-15649.	2.6	10
49	Phenyl Species Formation and Preferential Hydrogen Abstraction in the Decomposition of Chemisorbed Benzoate on Cu(110). <i>Journal of Physical Chemistry B</i> , 2006, 110, 9939-9946.	2.6	11