

Colin J Murphy

List of Publications by Year in descending order

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31
papers

1,117
citations

471509

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434195

31
g-index

31
all docs

31
docs citations

31
times ranked

1868
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Temperature-Programmed Desorption. Nano Letters, 2021, 21, 353-359.	9.1	6
2	Visualizing and Understanding Ordered Surface Phases during the Ullmann Coupling Reaction. Journal of Physical Chemistry C, 2021, 125, 7675-7685.	3.1	2
3	Controlling Molecular Switching via Chemical Functionality: Ethyl vs Methoxy Rotors. Journal of Physical Chemistry C, 2019, 123, 23738-23746.	3.1	9
4	Chirality at two-dimensional surfaces: A perspective from small molecule alcohol assembly on Au(111). Journal of Chemical Physics, 2018, 149, 034703.	3.0	9
5	Water-ice Analogues of Polycyclic Aromatic Hydrocarbons: Water Nanoclusters on Cu(111). Journal of the American Chemical Society, 2017, 139, 6403-6410.	13.7	32
6	Selective Formic Acid Dehydrogenation on Pt-Cu Single-Atom Alloys. ACS Catalysis, 2017, 7, 413-420.	11.2	143
7	Controlling selectivity in the Ullmann reaction on Cu(111). Chemical Communications, 2017, 53, 7816-7819.	4.1	22
8	The interplay of covalency, hydrogen bonding, and dispersion leads to a long range chiral network: The example of 2-butanol. Journal of Chemical Physics, 2016, 144, 094703.	3.0	19
9	Charge-Transfer-Induced Magic Cluster Formation of Azaborine Heterocycles on Noble Metal Surfaces. Journal of Physical Chemistry C, 2016, 120, 6020-6030.	3.1	23
10	Atomic-Scale Picture of the Composition, Decay, and Oxidation of Two-Dimensional Radioactive Films. ACS Nano, 2016, 10, 2152-2158.	14.6	5
11	Squeezing and stretching Pd thin films: A high-resolution STM study of Pd/Au(111) and Pd/Cu(111) bimetallics. Surface Science, 2016, 646, 1-4.	1.9	9
12	Collective effects in physisorbed molecular hydrogen on Ni/Au(111). Physical Review B, 2015, 92, .	3.2	9
13	Impact of branching on the supramolecular assembly of thioethers on Au(111). Journal of Chemical Physics, 2015, 142, 101915.	3.0	10
14	Ullmann coupling mediated assembly of an electrically driven altitudinal molecular rotor. Physical Chemistry Chemical Physics, 2015, 17, 31931-31937.	2.8	11
15	Enhancement of low-energy electron emission in 2D radioactive films. Nature Materials, 2015, 14, 904-907.	27.5	30
16	Effect of BN/CC Isosterism on the Thermodynamics of Surface and Bulk Binding: 1,2-Dihydro-1,2-azaborine vs Benzene. Journal of Physical Chemistry C, 2015, 119, 14624-14631.	3.1	11
17	Microscopic View of the Active Sites for Selective Dehydrogenation of Formic Acid on Cu(111). ACS Catalysis, 2015, 5, 7371-7378.	11.2	42
18	Structure and energetics of hydrogen-bonded networks of methanol on close packed transition metal surfaces. Journal of Chemical Physics, 2014, 141, 014701.	3.0	26

#	ARTICLE	IF	CITATIONS
19	Development of an Electrically Driven Molecular Motor. <i>Chemical Record</i> , 2014, 14, 834-840.	5.8	8
20	Hydrogen Dissociation, Spillover, and Desorption from Cu-Supported Co Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3380-3385.	4.6	34
21	Nanoscale insight into C-C coupling on cobalt nanoparticles. <i>Chemical Communications</i> , 2014, 50, 10035.	4.1	15
22	Atomic-scale insight into the formation, mobility and reaction of Ullmann coupling intermediates. <i>Chemical Communications</i> , 2014, 50, 1006-1008.	4.1	52
23	Segregation of Fischer-Tropsch reactants on cobalt nanoparticle surfaces. <i>Chemical Communications</i> , 2014, 50, 6537-6539.	4.1	12
24	Controlling a spillover pathway with the molecular cork effect. <i>Nature Materials</i> , 2013, 12, 523-528.	27.5	119
25	Molecular-Scale Perspective of Water-Catalyzed Methanol Dehydrogenation to Formaldehyde. <i>ACS Nano</i> , 2013, 7, 6181-6187.	14.6	67
26	Visualization of Compression and Spillover in a Coadsorbed System: Syngas on Cobalt Nanoparticles. <i>ACS Nano</i> , 2013, 7, 4384-4392.	14.6	24
27	Quantum Tunneling Enabled Self-Assembly of Hydrogen Atoms on Cu(111). <i>ACS Nano</i> , 2012, 6, 10115-10121.	14.6	45
28	Hydrogen Bonding and Chirality in Functionalized Thioether Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14992-14997.	3.1	13
29	Dissociative Hydrogen Adsorption on Close-Packed Cobalt Nanoparticle Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25868-25873.	3.1	35
30	Experimental demonstration of a single-molecule electric motor. <i>Nature Nanotechnology</i> , 2011, 6, 625-629.	31.5	246
31	Regular Scanning Tunneling Microscope Tips can be Intrinsically Chiral. <i>Physical Review Letters</i> , 2011, 106, 010801.	7.8	29