

# Colin J Murphy

## List of Publications by Year in descending order

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31  
papers

1,117  
citations

471509

17  
h-index

434195

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1868  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental demonstration of a single-molecule electric motor. <i>Nature Nanotechnology</i> , 2011, 6, 625-629.	31.5	246
2	Selective Formic Acid Dehydrogenation on Pt-Cu Single-Atom Alloys. <i>ACS Catalysis</i> , 2017, 7, 413-420.	11.2	143
3	Controlling a spillover pathway with the molecular cork effect. <i>Nature Materials</i> , 2013, 12, 523-528.	27.5	119
4	Molecular-Scale Perspective of Water-Catalyzed Methanol Dehydrogenation to Formaldehyde. <i>ACS Nano</i> , 2013, 7, 6181-6187.	14.6	67
5	Atomic-scale insight into the formation, mobility and reaction of Ullmann coupling intermediates. <i>Chemical Communications</i> , 2014, 50, 1006-1008.	4.1	52
6	Quantum Tunneling Enabled Self-Assembly of Hydrogen Atoms on Cu(111). <i>ACS Nano</i> , 2012, 6, 10115-10121.	14.6	45
7	Microscopic View of the Active Sites for Selective Dehydrogenation of Formic Acid on Cu(111). <i>ACS Catalysis</i> , 2015, 5, 7371-7378.	11.2	42
8	Dissociative Hydrogen Adsorption on Close-Packed Cobalt Nanoparticle Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25868-25873.	3.1	35
9	Hydrogen Dissociation, Spillover, and Desorption from Cu-Supported Co Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3380-3385.	4.6	34
10	Water-ice Analogues of Polycyclic Aromatic Hydrocarbons: Water Nanoclusters on Cu(111). <i>Journal of the American Chemical Society</i> , 2017, 139, 6403-6410.	13.7	32
11	Enhancement of low-energy electron emission in 2D radioactive films. <i>Nature Materials</i> , 2015, 14, 904-907.	27.5	30
12	Regular Scanning Tunneling Microscope Tips can be Intrinsically Chiral. <i>Physical Review Letters</i> , 2011, 106, 010801.	7.8	29
13	Structure and energetics of hydrogen-bonded networks of methanol on close packed transition metal surfaces. <i>Journal of Chemical Physics</i> , 2014, 141, 014701.	3.0	26
14	Visualization of Compression and Spillover in a Coadsorbed System: Syngas on Cobalt Nanoparticles. <i>ACS Nano</i> , 2013, 7, 4384-4392.	14.6	24
15	Charge-Transfer-Induced Magic Cluster Formation of Azaborine Heterocycles on Noble Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6020-6030.	3.1	23
16	Controlling selectivity in the Ullmann reaction on Cu(111). <i>Chemical Communications</i> , 2017, 53, 7816-7819.	4.1	22
17	The interplay of covalency, hydrogen bonding, and dispersion leads to a long range chiral network: The example of 2-butanol. <i>Journal of Chemical Physics</i> , 2016, 144, 094703.	3.0	19
18	Nanoscale insight into C-C coupling on cobalt nanoparticles. <i>Chemical Communications</i> , 2014, 50, 10035.	4.1	15

#	ARTICLE	IF	CITATIONS
19	Hydrogen Bonding and Chirality in Functionalized Thioether Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14992-14997.	3.1	13
20	Segregation of Fischer-Tropsch reactants on cobalt nanoparticle surfaces. <i>Chemical Communications</i> , 2014, 50, 6537-6539.	4.1	12
21	Ullmann coupling mediated assembly of an electrically driven altitudinal molecular rotor. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31931-31937.	2.8	11
22	Effect of BN/CC Isosterism on the Thermodynamics of Surface and Bulk Binding: 1,2-Dihydro-1,2-azaborine vs Benzene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14624-14631.	3.1	11
23	Impact of branching on the supramolecular assembly of thioethers on Au(111). <i>Journal of Chemical Physics</i> , 2015, 142, 101915.	3.0	10
24	Collective effects in physisorbed molecular hydrogen on Ni/Au(111). <i>Physical Review B</i> , 2015, 92, .	3.2	9
25	Squeezing and stretching Pd thin films: A high-resolution STM study of Pd/Au(111) and Pd/Cu(111) bimetallics. <i>Surface Science</i> , 2016, 646, 1-4.	1.9	9
26	Chirality at two-dimensional surfaces: A perspective from small molecule alcohol assembly on Au(111). <i>Journal of Chemical Physics</i> , 2018, 149, 034703.	3.0	9
27	Controlling Molecular Switching via Chemical Functionality: Ethyl vs Methoxy Rotors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23738-23746.	3.1	9
28	Development of an Electrically Driven Molecular Motor. <i>Chemical Record</i> , 2014, 14, 834-840.	5.8	8
29	Plasmonic Temperature-Programmed Desorption. <i>Nano Letters</i> , 2021, 21, 353-359.	9.1	6
30	Atomic-Scale Picture of the Composition, Decay, and Oxidation of Two-Dimensional Radioactive Films. <i>ACS Nano</i> , 2016, 10, 2152-2158.	14.6	5
31	Visualizing and Understanding Ordered Surface Phases during the Ullmann Coupling Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7675-7685.	3.1	2