

James N O'shea

List of Publications by Year in descending order

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71
papers

2,934
citations

185998

28
h-index

168136

53
g-index

73
all docs

73
docs citations

73
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	Vernier templating and synthesis of a 12-porphyrin nano-ring. <i>Nature</i> , 2011, 469, 72-75.	13.7	393
2	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. <i>Nature</i> , 2002, 418, 620-623.	13.7	346
3	The formation and characterisation of Ni ³⁺ an X-ray photoelectron spectroscopic investigation of potassium-doped Ni(110)O. <i>Surface Science</i> , 1999, 440, L868-L874.	0.8	232
4	Supramolecular nesting of cyclic polymers. <i>Nature Chemistry</i> , 2015, 7, 317-322.	6.6	110
5	Self-assembled aggregates formed by single-molecule magnets on a gold surface. <i>Nature Communications</i> , 2010, 1, 75.	5.8	105
6	Square, Hexagonal, and Row Phases of PTCDA and PTCDI on Ag ¹¹¹ Si(111) Å ⁻¹ R30°. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12167-12174.	1.2	98
7	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO ₂ (110) II: XPS. <i>Surface Science</i> , 2003, 544, 74-86.	0.8	95
8	Two Vernier-Templated Routes to a 24-Porphyrin Nanoring. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6696-6699.	7.2	87
9	Photoemission, resonant photoemission, and x-ray absorption of a Ru(II) complex adsorbed on rutile TiO ₂ (110) prepared by in situ electro spray deposition. <i>Journal of Chemical Physics</i> , 2008, 129, 114701.	1.2	80
10	N ^{1s} x-ray absorption study of the bonding interaction of bi-isonicotinic acid adsorbed on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2000, 112, 3945-3948.	1.2	68
11	Hydrogen-Bond Induced Surface Core-Level Shift in Isonicotinic Acid. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1917-1920.	1.2	61
12	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO ₂ (110) I: XAS and STM. <i>Surface Science</i> , 2003, 540, 39-54.	0.8	52
13	X-ray absorption and photoemission spectroscopy of zinc protoporphyrin adsorbed on rutile TiO ₂ (110) prepared by in situ electro spray deposition. <i>Journal of Chemical Physics</i> , 2010, 132, 084703.	1.2	52
14	Electrospray deposition of fullerenes in ultra-high vacuum: in situ scanning tunneling microscopy and photoemission spectroscopy. <i>Nanotechnology</i> , 2007, 18, 455304.	1.3	50
15	Conformation and Packing of Porphyrin Polymer Chains Deposited Using Electrospray on a Gold Surface. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9136-9139.	7.2	50
16	Hydrogen-bond induced surface core-level shift in pyridine carboxylic acids. <i>Surface Science</i> , 2001, 486, 157-166.	0.8	49
17	Excited-state charge transfer dynamics in systems of aromatic adsorbates on TiO ₂ studied with resonant core techniques. <i>Journal of Chemical Physics</i> , 2003, 119, 12462-12472.	1.2	48
18	Electrospray Deposition of C ₆₀ on a Hydrogen-Bonded Supramolecular Network. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7706-7709.	1.5	48

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19	Vernier-templated Synthesis, Crystal Structure, and Supramolecular Chemistry of a 12-porphyrin Nanoring. <i>Chemistry - A European Journal</i> , 2014, 20, 12826-12834.	1.7	46
20	Alignment of valence photoemission, x-ray absorption, and substrate density of states for an adsorbate on a semiconductor surface. <i>Physical Review B</i> , 2003, 67, .	1.1	43
21	Electrospray deposition in vacuum. <i>Applied Surface Science</i> , 2006, 252, 5622-5626.	3.1	43
22	Electrospray deposition of carbon nanotubes in vacuum. <i>Nanotechnology</i> , 2007, 18, 035707.	1.3	40
23	Mechanical Stiffening of Porphyrin Nanorings through Supramolecular Columnar Stacking. <i>Nano Letters</i> , 2013, 13, 3391-3395.	4.5	34
24	Charge transfer dynamics of model charge transfer centers of a multicenter water splitting dye complex on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2011, 134, 054705.	1.2	30
25	Alkali metal reactions with Ni(110)-O and NiO(100) surfaces. <i>Surface Science</i> , 2000, 454-456, 141-146.	0.8	29
26	Oxidation states at alkali-metal-doped Ni(110)-O surfaces. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 274-281.	1.3	29
27	Hybrid light emitting diodes based on stable, high brightness all-inorganic CsPbI ₃ perovskite nanocrystals and InGaN. <i>Nanoscale</i> , 2019, 11, 13450-13457.	2.8	29
28	Charge-Transfer Dynamics at Model Metal-Organic Solar Cell Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16646-16655.	1.5	28
29	<i>In situ</i> XPS analysis of the atomic layer deposition of aluminium oxide on titanium dioxide. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1393-1398.	1.3	27
30	Faradaic processes beyond Nernst's law: density functional theory assisted modelling of partial electron delocalisation and pseudocapacitance in graphene oxides. <i>Chemical Communications</i> , 2017, 53, 10414-10417.	2.2	26
31	Adsorption of a Ru(II) dye complex on the Au(111) surface: Photoemission and scanning tunneling microscopy. <i>Journal of Chemical Physics</i> , 2009, 130, 164704.	1.2	25
32	Single molecule magnets on a gold surface: <i>in situ</i> electro-spray deposition, x-ray absorption and photoemission. <i>Nanotechnology</i> , 2011, 22, 075704.	1.3	24
33	Charge transfer between the Au(111) surface and adsorbed C60: Resonant photoemission and new core-hole decay channels. <i>Journal of Chemical Physics</i> , 2010, 133, 094705.	1.2	23
34	X-ray photoelectron spectroscopy of low surface concentration mass-selected Ag clusters. <i>Journal of Chemical Physics</i> , 2000, 113, 9233-9238.	1.2	22
35	Phase and molecular orientation in metal-free phthalocyanine films on conducting glass: Characterization of two deposition methods. <i>Thin Solid Films</i> , 2005, 493, 13-19.	0.8	22
36	Adsorption and charge transfer dynamics of bi-isonicotinic acid on Au(111). <i>Journal of Chemical Physics</i> , 2007, 127, 134707.	1.2	21

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37	Adsorption of PTCDI on Au(111): Photoemission and scanning tunnelling microscopy. <i>Surface Science</i> , 2009, 603, 3094-3098.	0.8	20
38	Colloidal particle foams: Templates for Au nanowire networks?. <i>Applied Physics Letters</i> , 2002, 81, 5039-5041.	1.5	19
39	Adsorption of Dipyrin-Based Dye Complexes on a Rutile TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18184-18192.	1.5	19
40	X-ray photoelectron spectroscopy of fluorescein adsorbed on model solar-cell surfaces. <i>Surface Science</i> , 2004, 548, 317-323.	0.8	17
41	Bulk and surface charge states of C ₆₀ . <i>Physical Review B</i> , 2005, 71, .	1.1	17
42	Charge transfer from an adsorbed ruthenium-based photosensitizer through an ultra-thin aluminium oxide layer and into a metallic substrate. <i>Journal of Chemical Physics</i> , 2014, 140, 234708.	1.2	17
43	Intramolecular vibronic dynamics in molecular solids: C ₆₀ . <i>Physical Review B</i> , 2005, 72, .	1.1	16
44	Charge transfer interactions of a Ru(II) dye complex and related ligand molecules adsorbed on Au(111). <i>Journal of Chemical Physics</i> , 2011, 135, 164702.	1.2	14
45	Resonant inelastic X-ray scattering of a Ru photosensitizer: Insights from individual ligands to the electronic structure of the complete molecule. <i>Journal of Chemical Physics</i> , 2019, 151, 074701.	1.2	12
46	Molecular ordering in isonicotinic acid on rutile TiO ₂ (110) investigated with valence band photoemission. <i>Journal of Chemical Physics</i> , 2004, 121, 10203-10208.	1.2	11
47	A single centre water splitting dye complex adsorbed on rutile TiO ₂ (110): Photoemission, x-ray absorption, and optical spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 114703.	1.2	11
48	Single molecule magnets with protective ligand shells on gold and titanium dioxide surfaces: In situ electrospray deposition and x-ray absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2013, 139, 154708.	1.2	11
49	Competing interactions of noble metals and fullerenes with the Si(111)7 $\sqrt{3}\times\sqrt{3}$ surface. <i>Journal of Chemical Physics</i> , 2003, 119, 13046-13052.	1.2	10
50	Molecular damage in bi-isonicotinic acid adsorbed on rutile TiO ₂ (110). <i>Surface Science</i> , 2008, 602, 1693-1698.	0.8	10
51	Resonant core spectroscopies of the charge transfer interactions between C ₆₀ and the surfaces of Au(111), Ag(111), Cu(111) and Pt(111). <i>Surface Science</i> , 2017, 657, 69-78.	0.8	10
52	Direct Synthesis of Multiplexed Metal Nanowire-Based Devices by Using Carbon Nanotubes as Vector Templates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9928-9932.	7.2	10
53	Height dependent molecular trapping in stacked cyclic porphyrin nanorings. <i>Chemical Communications</i> , 2014, 50, 7332-7335.	2.2	9
54	Electrospray deposition in vacuum as method to create functionally active protein immobilization on polymeric substrates. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 252-259.	5.0	9

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55	Adsorption and charge transfer interactions of bi-isonicotinic acid on Ag(111). Journal of Chemical Physics, 2017, 147, 054703.	1.2	9
56	Beamline-induced chromium structure in carbon K-edge absorption spectra. Nuclear Instruments & Methods in Physics Research B, 2001, 184, 609-614.	0.6	8
57	APPLIED PHYSICS: Enhanced: Molecular Orbitals Tell the Story. Science, 2005, 310, 453-454.	6.0	8
58	Experimental observation of sub-femtosecond charge transfer in a model water splitting dye-sensitized solar cell. Journal of Chemical Physics, 2012, 137, 224706.	1.2	7
59	On the suitability of high vacuum electro spray deposition for the fabrication of molecular electronic devices. Chemical Physics Letters, 2017, 682, 15-19.	1.2	7
60	Insulating surface layer on single crystal K MnF_3 . European Physical Journal B, 2004, 41, 435-438.	0.6	6
61	$(\text{C}_6\text{H}_5)_5\text{C}_6\text{O}$ on Si(111) and Ag:Si(111) surfaces. Physical Review B, 2005, 72, .	1.1	6
62	Bulk electronic structure of $\text{K}_3\text{C}_6\text{O}_8$ revealed by soft x-rays. Physical Review B, 2007, 75, .	1.1	6
63	Charge Transfer from an Aromatic Adsorbate to a Semiconductor TiO_2 Surface Probed on the Femtosecond Time Scale with Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2012, 109, 017401.	2.9	6
64	An in situ exploration of subsurface defect migration to a liquid water-exposed rutile $\text{TiO}_2(110)$ surface by XPS. Surface and Interface Analysis, 2021, 53, 1013-1019.	0.8	5
65	Exploring ultra-fast charge transfer and vibronic coupling with N 1s RIXS maps of an aromatic molecule coupled to a semiconductor. Journal of Chemical Physics, 2017, 147, 134705.	1.2	4
66	Direct Synthesis of Multiplexed Metal Nanowire-Based Devices by Using Carbon Nanotubes as Vector Templates. Angewandte Chemie, 2019, 131, 10033-10037.	1.6	4
67	Highly efficient hydrogen evolution reaction, plasmon-enhanced by AuNP-I-TiO ₂ NP photocatalysts. New Journal of Chemistry, 2020, 44, 16491-16500.	1.4	4
68	Ultra-fast charge transfer between fullerenes and a gold surface, as prepared by electro spray deposition. Chemical Physics Letters, 2020, 747, 137309.	1.2	3
69	Ultra-fast intramolecular vibronic coupling revealed by RIXS and RPES maps of an aromatic adsorbate on $\text{TiO}_2(110)$. Journal of Chemical Physics, 2018, 148, 204705.	1.2	2
70	A soft x-ray probe of a titania photoelectrode sensitized with a triphenylamine dye. Journal of Chemical Physics, 2021, 154, 234707.	1.2	2
71	Modeling Photocathode Performance Using MedeA-VASP Simulation Software. IEEE Transactions on Nuclear Science, 2020, 67, 1987-1992.	1.2	0