James N O'shea

List of Publications by Year
in descending order

71 papers	2,934 citations	186265 28 h-index	168389 53 g-index
73 all docs	73 docs citations	73 times ranked	3752 citing authors

#	Article	IF	Citations
1	An in situ exploration of subsurface defect migration to a liquid waterâ€exposed rutile TiO₂(110) surface by XPS. Surface and Interface Analysis, 2021, 53, 1013-1019.	1.8	5
2	A soft x-ray probe of a titania photoelectrode sensitized with a triphenylamine dye. Journal of Chemical Physics, 2021, 154, 234707.	3.0	2
3	Highly efficient hydrogen evolution reaction, plasmon-enhanced by AuNP-l-TiO2NP photocatalysts. New Journal of Chemistry, 2020, 44, 16491-16500.	2.8	4
4	Ultra-fast charge transfer between fullerenes and a gold surface, as prepared by electrospray deposition. Chemical Physics Letters, 2020, 747, 137309.	2.6	3
5	Modeling Photocathode Performance Using MedeA-VASP Simulation Software. IEEE Transactions on Nuclear Science, 2020, 67, 1987-1992.	2.0	0
6	Direct Synthesis of Multiplexed Metalâ€Nanowireâ€Based Devices by Using Carbon Nanotubes as Vector Templates. Angewandte Chemie, 2019, 131, 10033-10037.	2.0	4
7	Hybrid light emitting diodes based on stable, high brightness all-inorganic CsPbI₃ perovskite nanocrystals and InGaN. Nanoscale, 2019, 11, 13450-13457.	5.6	29
8	Resonant inelastic X-ray scattering of a Ru photosensitizer: Insights from individual ligands to the electronic structure of the complete molecule. Journal of Chemical Physics, 2019, 151, 074701.	3.0	12
9	In situ XPS analysis of the atomic layer deposition of aluminium oxide on titanium dioxide. Physical Chemistry Chemical Physics, 2019, 21, 1393-1398.	2.8	27
10	Direct Synthesis of Multiplexed Metalâ€Nanowireâ€Based Devices by Using Carbon Nanotubes as Vector Templates. Angewandte Chemie - International Edition, 2019, 58, 9928-9932.	13.8	10
11	Ultra-fast intramolecular vibronic coupling revealed by RIXS and RPES maps of an aromatic adsorbate on TiO2(110). Journal of Chemical Physics, 2018, 148, 204705.	3.0	2
12	Resonant core spectroscopies of the charge transfer interactions between C60 and the surfaces of Au(111), Ag(111), Cu(111) and Pt(111). Surface Science, 2017, 657, 69-78.	1.9	10
13	On the suitability of high vacuum electrospray deposition for the fabrication of molecular electronic devices. Chemical Physics Letters, 2017, 682, 15-19.	2.6	7
14	Adsorption and charge transfer interactions of bi-isonicotinic acid on Ag(111). Journal of Chemical Physics, 2017, 147, 054703.	3.0	9
15	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.	3.0	4
16	Faradaic processes beyond Nernst's law: density functional theory assisted modelling of partial electron delocalisation and pseudocapacitance in graphene oxides. Chemical Communications, 2017, 53, 10414-10417.	4.1	26
17	Supramolecular nesting of cyclic polymers. Nature Chemistry, 2015, 7, 317-322.	13.6	110
18	Electrospray deposition in vacuum as method to create functionally active protein immobilization on polymeric substrates. Journal of Colloid and Interface Science, 2015, 453, 252-259.	9.4	9

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19	Charge transfer from an adsorbed ruthenium-based photosensitizer through an ultra-thin aluminium oxide layer and into a metallic substrate. Journal of Chemical Physics, 2014, 140, 234708.	3.0	17
20	Height dependent molecular trapping in stacked cyclic porphyrin nanorings. Chemical Communications, 2014, 50, 7332-7335.	4.1	9
21	Vernierâ€templated Synthesis, Crystal Structure, and Supramolecular Chemistry of a 12â€Porphyrin Nanoring. Chemistry - A European Journal, 2014, 20, 12826-12834.	3.3	46
22	Single molecule magnets with protective ligand shells on gold and titanium dioxide surfaces: In situ electrospray deposition and x-ray absorption spectroscopy. Journal of Chemical Physics, 2013, 139, 154708.	3.0	11
23	Mechanical Stiffening of Porphyrin Nanorings through Supramolecular Columnar Stacking. Nano Letters, 2013, 13, 3391-3395.	9.1	34
24	Experimental observation of sub-femtosecond charge transfer in a model water splitting dye-sensitized solar cell. Journal of Chemical Physics, 2012, 137, 224706.	3.0	7
25	Adsorption of Dipyrrin-Based Dye Complexes on a Rutile TiO₂(110) Surface. Journal of Physical Chemistry C, 2012, 116, 18184-18192.	3.1	19
26	Two Vernierâ€templated Routes to a 24â€Porphyrin Nanoring. Angewandte Chemie - International Edition, 2012, 51, 6696-6699.	13.8	87
27	Charge Transfer from an Aromatic Adsorbate to a SemiconductorTiO2Surface Probed on the Femtosecond Time Scale with Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2012, 109, 017401.	7.8	6
28	Charge transfer interactions of a Ru(II) dye complex and related ligand molecules adsorbed on Au(111). Journal of Chemical Physics, 2011, 135, 164702.	3.0	14
29	Single molecule magnets on a gold surface:in situelectrospray deposition, x-ray absorption and photoemission. Nanotechnology, 2011, 22, 075704.	2.6	24
30	Vernier templating and synthesis of a 12-porphyrin nano-ring. Nature, 2011, 469, 72-75.	27.8	393
31	Charge transfer dynamics of model charge transfer centers of a multicenter water splitting dye complex on rutile TiO2(110). Journal of Chemical Physics, 2011, 134, 054705.	3.0	30
32	A single centre water splitting dye complex adsorbed on rutile TiO2(110): Photoemission, x-ray absorption, and optical spectroscopy. Journal of Chemical Physics, 2011, 135, 114703.	3.0	11
33	Conformation and Packing of Porphyrin Polymer Chains Deposited Using Electrospray on a Gold Surface. Angewandte Chemie - International Edition, 2010, 49, 9136-9139.	13.8	50
34	Charge transfer between the Au(111) surface and adsorbed C60: Resonant photoemission and new core-hole decay channels. Journal of Chemical Physics, 2010, 133, 094705.	3.0	23
35	X-ray absorption and photoemission spectroscopy of zinc protoporphyrin adsorbed on rutile TiO2(110) prepared by in situ electrospray deposition. Journal of Chemical Physics, 2010, 132, 084703.	3.0	52
36	Self-assembled aggregates formed by single-molecule magnets on a gold surface. Nature Communications, 2010, 1, 75.	12.8	105

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37	Adsorption of a Ru(II) dye complex on the Au(111) surface: Photoemission and scanning tunneling microscopy. Journal of Chemical Physics, 2009, 130, 164704.	3.0	25
38	Adsorption of PTCDI on Au(111): Photoemission and scanning tunnelling microscopy. Surface Science, 2009, 603, 3094-3098.	1.9	20
39	Molecular damage in bi-isonicotinic acid adsorbed on rutile TiO2(110). Surface Science, 2008, 602, 1693-1698.	1.9	10
40	Electrospray Deposition of C60 on a Hydrogen-Bonded Supramolecular Network. Journal of Physical Chemistry C, 2008, 112, 7706-7709.	3.1	48
41	Photoemission, resonant photoemission, and x-ray absorption of a Ru(II) complex adsorbed on rutile TiO2(110) prepared by in situ electrospray deposition. Journal of Chemical Physics, 2008, 129, 114701.	3.0	80
42	Adsorption and charge transfer dynamics of bi-isonicotinic acid on Au(111). Journal of Chemical Physics, 2007, 127, 134707.	3.0	21
43	Bulk electronic structure ofK3C60as revealed by soft x-rays. Physical Review B, 2007, 75, .	3.2	6
44	Electrospray deposition of carbon nanotubes in vacuum. Nanotechnology, 2007, 18, 035707.	2.6	40
45	Electrospray deposition of fullerenes in ultra-high vacuum:in situscanning tunneling microscopy and photoemission spectroscopy. Nanotechnology, 2007, 18, 455304.	2.6	50
46	Charge-Transfer Dynamics at Model Metalâ"Organic Solar Cell Surfaces. Journal of Physical Chemistry C, 2007, 111, 16646-16655.	3.1	28
47	Electrospray deposition in vacuum. Applied Surface Science, 2006, 252, 5622-5626.	6.1	43
48	Phase and molecular orientation in metal-free phthalocyanine films on conducting glass: Characterization of two deposition methods. Thin Solid Films, 2005, 493, 13-19.	1.8	22
49	Bulk and surface charge states ofK3C60. Physical Review B, 2005, 71, .	3.2	17
50	(C6H5)5C60HatSi(111)â€(7Ã—7)andAg:Si(111)â€(3Ã—3)R30Â°surfaces. Physical Review B, 2005, 72, .	3.2	6
51	Intramolecular vibronic dynamics in molecular solids:C60. Physical Review B, 2005, 72, .	3.2	16
52	APPLIED PHYSICS: Enhanced: Molecular Orbitals Tell the Story. Science, 2005, 310, 453-454.	12.6	8
53	Square, Hexagonal, and Row Phases of PTCDA and PTCDI on Agâ"Si(111) Ã— R30Â°. Journal of Physical Chemistry B, 2005, 109, 12167-12174.	2.6	98
54	Molecular ordering in isonicotinic acid on rutile TiO2(110) investigated with valence band photoemission. Journal of Chemical Physics, 2004, 121, 10203-10208.	3.0	11

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55	Insulating surface layer on single crystal K $mathsf{_{3}}mathsf{C}mathsf{_{60}}$. European Physical Journal B, 2004, 41, 435-438.	1.5	6
56	X-ray photoelectron spectroscopy of fluorescein adsorbed on model solar-cell surfaces. Surface Science, 2004, 548, 317-323.	1.9	17
57	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO2(110) II: XPS. Surface Science, 2003, 544, 74-86.	1.9	95
58	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO2(110) I: XAS and STM. Surface Science, 2003, 540, 39-54.	1.9	52
59	Alignment of valence photoemission, x-ray absorption, and substrate density of states for an adsorbate on a semiconductor surface. Physical Review B, 2003, 67, .	3.2	43
60	Excited-state charge transfer dynamics in systems of aromatic adsorbates on TiO2 studied with resonant core techniques. Journal of Chemical Physics, 2003, 119, 12462-12472.	3.0	48
61	Competing interactions of noble metals and fullerenes with the Si(111)7Ã—7 surface. Journal of Chemical Physics, 2003, 119, 13046-13052.	3.0	10
62	Colloidal particle foams: Templates for Au nanowire networks?. Applied Physics Letters, 2002, 81, 5039-5041.	3.3	19
63	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. Nature, 2002, 418, 620-623.	27.8	346
64	Hydrogen-bond induced surface core-level shift in pyridine carboxylic acids. Surface Science, 2001, 486, 157-166.	1.9	49
65	Oxidation states at alkali-metal-doped Ni(110)â€“O surfaces. Physical Chemistry Chemical Physics, 2001, 3, 274-281.	2.8	29
66	Hydrogen-Bond Induced Surface Core-Level Shift in Isonicotinic Acid. Journal of Physical Chemistry B, 2001, 105, 1917-1920.	2.6	61
67	Beamline-induced chromium structure in carbon K-edge absorption spectra. Nuclear Instruments & Methods in Physics Research B, 2001, 184, 609-614.	1.4	8
68	Nâ€Š1s x-ray absorption study of the bonding interaction of bi-isonicotinic acid adsorbed on rutile TiO2(110). Journal of Chemical Physics, 2000, 112, 3945-3948.	3.0	68
69	X-ray photoelectron spectroscopy of low surface concentration mass-selected Ag clusters. Journal of Chemical Physics, 2000, 113, 9233-9238.	3.0	22
70	Alkali metal reactions with Ni(110)â€“O and NiO(100) surfaces. Surface Science, 2000, 454-456, 141-146.	1.9	29
71	The formation and characterisation of Ni3+ â€” an X-ray photoelectron spectroscopic investigation of potassium-doped Ni(110)â€“O. Surface Science, 1999, 440, L868-L874.	1.9	232