# James N O'shea

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Vernier templating and synthesis of a 12-porphyrin nano-ring. Nature, 2011, 469, 72-75. | 27.8 | 393 |
| 2 | Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. Nature, 2002, 418, 620-623. | 27.8 | 346 |
| 3 | 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 |
| 4 | Supramolecular nesting of cyclic polymers. Nature Chemistry, 2015, 7, 317-322. | 13.6 | 110 |
| 5 | Self-assembled aggregates formed by single-molecule magnets on a gold surface. Nature Communications, 2010, 1, 75. | 12.8 | 105 |
| 6 | 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 |
| 7 | 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 |
| 8 | Two Vernierâ€Templated Routes to a 24â€Porphyrin Nanoring. Angewandte Chemie - International Edition, 2012, 51, 6696-6699. | 13.8 | 87 |
| 9 | 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 |
| 10 | 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 |
| 11 | Hydrogen-Bond Induced Surface Core-Level Shift in Isonicotinic Acid. Journal of Physical Chemistry B, 2001, 105, 1917-1920. | 2.6 | 61 |
| 12 | 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 |
| 13 | 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 |
| 14 | Electrospray deposition of fullerenes in ultra-high vacuum:in situscanning tunneling microscopy and photoemission spectroscopy. Nanotechnology, 2007, 18, 455304. | 2.6 | 50 |
| 15 | 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 |
| 16 | Hydrogen-bond induced surface core-level shift in pyridine carboxylic acids. Surface Science, 2001, 486, 157-166. | 1.9 | 49 |
| 17 | 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 |
| 18 | Electrospray Deposition of C60 on a Hydrogen-Bonded Supramolecular Network. Journal of Physical Chemistry C, 2008, 112, 7706-7709. | 3.1 | 48 |

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|---|---|---|---|
| 19 | Vernierâ€Templated Synthesis, Crystal Structure, and Supramolecular Chemistry of a 12â€Porphyrin Nanoring. Chemistry - A European Journal, 2014, 20, 12826-12834. | 3.3 | 46 |
| 20 | 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 |
| 21 | Electrospray deposition in vacuum. Applied Surface Science, 2006, 252, 5622-5626. | 6.1 | 43 |
| 22 | Electrospray deposition of carbon nanotubes in vacuum. Nanotechnology, 2007, 18, 035707. | 2.6 | 40 |
| 23 | Mechanical Stiffening of Porphyrin Nanorings through Supramolecular Columnar Stacking. Nano Letters, 2013, 13, 3391-3395. | 9.1 | 34 |
| 24 | 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 |
| 25 | Alkali metal reactions with Ni(110)â€“O and NiO(100) surfaces. Surface Science, 2000, 454-456, 141-146. | 1.9 | 29 |
| 26 | Oxidation states at alkali-metal-doped Ni(110)â€“O surfaces. Physical Chemistry Chemical Physics, 2001, 3, 274-281. | 2.8 | 29 |
| 27 | Hybrid light emitting diodes based on stable, high brightness all-inorganic CsPbI<sub>3</sub> perovskite nanocrystals and InGaN. Nanoscale, 2019, 11, 13450-13457. | 5.6 | 29 |
| 28 | Charge-Transfer Dynamics at Model Metalâ^'Organic Solar Cell Surfaces. Journal of Physical Chemistry C, 2007, 111, 16646-16655. | 3.1 | 28 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Single molecule magnets on a gold surface:in situelectrospray deposition, x-ray absorption and photoemission. Nanotechnology, 2011, 22, 075704. | 2.6 | 24 |
| 33 | 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 |
| 34 | X-ray photoelectron spectroscopy of low surface concentration mass-selected Ag clusters. Journal of Chemical Physics, 2000, 113, 9233-9238. | 3.0 | 22 |
| 35 | 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 |
| 36 | Adsorption and charge transfer dynamics of bi-isonicotinic acid on Au(111). Journal of Chemical Physics, 2007, 127, 134707. | 3.0 | 21 |

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|---|---|---|---|
| 37 | Adsorption of PTCDI on Au(111): Photoemission and scanning tunnelling microscopy. Surface Science, 2009, 603, 3094-3098. | 1.9 | 20 |
| 38 | Colloidal particle foams: Templates for Au nanowire networks?. Applied Physics Letters, 2002, 81, 5039-5041. | 3.3 | 19 |
| 39 | Adsorption of Dipyrrin-Based Dye Complexes on a Rutile TiO<sub>2</sub>(110) Surface. Journal of Physical Chemistry C, 2012, 116, 18184-18192. | 3.1 | 19 |
| 40 | X-ray photoelectron spectroscopy of fluorescein adsorbed on model solar-cell surfaces. Surface Science, 2004, 548, 317-323. | 1.9 | 17 |
| 41 | Bulk and surface charge states ofK3C60. Physical Review B, 2005, 71, . | 3.2 | 17 |
| 42 | 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 |
| 43 | Intramolecular vibronic dynamics in molecular solids:C60. Physical Review B, 2005, 72, . | 3.2 | 16 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | Molecular damage in bi-isonicotinic acid adsorbed on rutile TiO2(110). Surface Science, 2008, 602, 1693-1698. | 1.9 | 10 |
| 51 | 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 |
| 52 | 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 |
| 53 | Height dependent molecular trapping in stacked cyclic porphyrin nanorings. Chemical Communications, 2014, 50, 7332-7335. | 4.1 | 9 |
| 54 | 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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|---|---|---|---|
| 55 | Adsorption and charge transfer interactions of bi-isonicotinic acid on Ag(111). Journal of Chemical Physics, 2017, 147, 054703. | 3.0 | 9 |
| 56 | Beamline-induced chromium structure in carbon K-edge absorption spectra. Nuclear Instruments & Methods in Physics Research B, 2001, 184, 609-614. | 1.4 | 8 |
| 57 | APPLIED PHYSICS: Enhanced: Molecular Orbitals Tell the Story. Science, 2005, 310, 453-454. | 12.6 | 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. | 3.0 | 7 |
| 59 | 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 |
| 60 | Insulating surface layer on single crystal K $mathsf{_{3}}mathsf{C}mathsf{_{60}}$. European Physical Journal B, 2004, 41, 435-438. | 1.5 | 6 |
| 61 | (C6H5)5C60HatSi(111)â€(7Ã—7)andAg:Si(111)â€(3Ã—3)R30Â°surfaces. Physical Review B, 2005, 72, . | 3.2 | 6 |
| 62 | Bulk electronic structure ofK3C60as revealed by soft x-rays. Physical Review B, 2007, 75, . | 3.2 | 6 |
| 63 | 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 |
| 64 | An in situ exploration of subsurface defect migration to a liquid waterâ€exposed rutile TiO<sub>2</sub>(110) surface by XPS. Surface and Interface Analysis, 2021, 53, 1013-1019. | 1.8 | 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. | 3.0 | 4 |
| 66 | Direct Synthesis of Multiplexed Metalâ€Nanowireâ€Based Devices by Using Carbon Nanotubes as Vector Templates. Angewandte Chemie, 2019, 131, 10033-10037. | 2.0 | 4 |
| 67 | Highly efficient hydrogen evolution reaction, plasmon-enhanced by AuNP-l-TiO2NP photocatalysts. New Journal of Chemistry, 2020, 44, 16491-16500. | 2.8 | 4 |
| 68 | Ultra-fast charge transfer between fullerenes and a gold surface, as prepared by electrospray deposition. Chemical Physics Letters, 2020, 747, 137309. | 2.6 | 3 |
| 69 | 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 |
| 70 | A soft x-ray probe of a titania photoelectrode sensitized with a triphenylamine dye. Journal of Chemical Physics, 2021, 154, 234707. | 3.0 | 2 |
| 71 | Modeling Photocathode Performance Using MedeA-VASP Simulation Software. IEEE Transactions on Nuclear Science, 2020, 67, 1987-1992. | 2.0 | 0 |