

# Wendy Flavell

## List of Publications by Year in descending order

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101  
papers

2,477  
citations

236925

25  
h-index

223800

46  
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103  
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103  
docs citations

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times ranked

3341  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of hard X-ray photoelectron spectroscopy: Calculating relative sensitivity factors for 1.5-10 keV photons in any instrument geometry. <i>Surface and Interface Analysis</i> , 2022, 54, 442-454.	1.8	10
2	Characterization of buried interfaces using Ga K $\alpha$ hard X-ray photoelectron spectroscopy (HAXPES). <i>Faraday Discussions</i> , 2022, 236, 311-337.	3.2	4
3	Role of Alkali Cations in Stabilizing Mixed-Cation Perovskites to Thermal Stress and Moisture Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43573-43586.	8.0	16
4	Surface band bending and carrier dynamics in colloidal quantum dot solids. <i>Nanoscale</i> , 2021, 13, 17793-17806.	5.6	2
5	Photo- and Electroluminescence from Zn-Doped InN Semiconductor Nanocrystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000604.	7.3	4
6	Visualizing the role of photoinduced ion migration on photoluminescence in halide perovskite grains. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7509-7518.	5.5	14
7	Tuning the Charge Carriers Migration in Epitaxial BaTiO <sub>3</sub> Thin-Film Photoanodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10315-10323.	3.1	10
8	Air-Stable Methylammonium Lead Iodide Perovskite Thin Films Fabricated via Aerosol-Assisted Chemical Vapor Deposition from a Pseudohalide Pb(SCN) <sub>2</sub> Precursor. <i>ACS Applied Energy Materials</i> , 2019, 2, 6012-6022.	5.1	13
9	Spin- and angle-resolved photoemission studies of the electronic structure of Si(110) $\alpha$ -surfaces. <i>Physical Review B</i> , 2019, 100, .		
10	Origin of the two-dimensional electron gas at the CdO (100) surface. <i>Physical Review B</i> , 2019, 99, .	3.2	7
11	Symmetry-breaking and spin-blockage effects on carrier dynamics in single-layer tungsten diselenide. <i>Physical Review B</i> , 2019, 100, .	3.2	3
12	Photocatalytic hydrogen production by biomimetic indium sulfide using Mimosa pudica leaves as template. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2770-2783.	7.1	17
13	Surface and Interface Chemistry in Colloidal Quantum Dots for Solar Applications Studied by X-ray Photoelectron Spectroscopy. <i>Chemical Record</i> , 2019, 19, 1233-1243.	5.8	12
14	Influence of Multistep Surface Passivation on the Performance of PbS Colloidal Quantum Dot Solar Cells. <i>Langmuir</i> , 2018, 34, 8887-8897.	3.5	16
15	Ambient-air-stable inorganic Cs <sub>2</sub> SnI <sub>6</sub> double perovskite thin films via aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11205-11214.	10.3	85
16	Spin-orbit effects at chiral surfaces. <i>Physical Review B</i> , 2018, 97, .	3.2	1
17	Multiple Exciton Generation and Dynamics in InP/CdS Colloidal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2099-2107.	3.1	24
18	The passivating effect of cadmium in PbS/CdS colloidal quantum dots probed by nm-scale depth profiling. <i>Nanoscale</i> , 2017, 9, 6056-6067.	5.6	29

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19	In situ investigation of degradation at organometal halide perovskite surfaces by X-ray photoelectron spectroscopy at realistic water vapour pressure. <i>Chemical Communications</i> , 2017, 53, 5231-5234.	4.1	78
20	Domain formation mechanism of the Si(110) $\sqrt{16 \times 16}$ reconstruction. <i>Physical Review B</i> , 2017, 95, .		
21	Charge dynamics at heterojunctions for PbS/ZnO colloidal quantum dot solar cells probed with time-resolved surface photovoltage spectroscopy. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	24
22	Photoluminescence: Near-Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots (Small 13/2015). <i>Small</i> , 2015, 11, 1482-1482.	10.0	0
23	Surface Properties of Nanocrystalline PbS Films Deposited at the Water/Oil Interface: A Study of Atmospheric Aging. <i>Langmuir</i> , 2015, 31, 1445-1453.	3.5	74
24	Growth of nanocrystalline thin films of metal sulfides [CdS, ZnS, CuS and PbS] at the water/oil interface. <i>RSC Advances</i> , 2015, 5, 62291-62299.	3.6	10
25	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. <i>Surface Science</i> , 2015, 641, 320-325.	1.9	17
26	Near-Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots. <i>Small</i> , 2015, 11, 1548-1554.	10.0	86
27	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101,0). <i>Faraday Discussions</i> , 2014, 171, 275-298.	3.2	20
28	Chemical reaction dynamics II and Correlated systems, surfaces and catalysis: general discussion. <i>Faraday Discussions</i> , 2014, 171, 323-356.	3.2	0
29	Adsorption and stability of malonic acid on rutile TiO <sub>2</sub> (110), studied by near edge X-ray absorption fine structure and photoelectron spectroscopy. <i>Surface Science</i> , 2014, 626, 14-20.	1.9	11
30	Time-resolved surface photovoltage measurements at ZnO(100) $\sqrt{10 \times 10}$ type photovoltaic surfaces: Si(111) and ZnO(100) $\sqrt{10 \times 10}$ type photovoltaic surfaces: Si(111) and ZnO(100) $\sqrt{10 \times 10}$ type photovoltaic surfaces. <i>Physical Review B</i> , 2013, 88, .		
31	Determining carrier multiplication efficiencies: Time-resolved terahertz spectroscopy on colloidal quantum dot solutions. , 2013, , .		0
32	Developing terahertz sources with longitudinal polarisation components for the energy modulation of relativistic electrons. , 2013, , .		0
33	Adsorbate-Induced Modification of Surface Electronic Structure: Pyrocatechol Adsorption on the Anatase TiO <sub>2</sub> (101) and Rutile TiO <sub>2</sub> (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23515-23525.	3.1	57
34	Growth and Characterization of Strained and Alloyed Type-II ZnTe/ZnSe Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26898-26907.	3.1	50
35	The chemical analysis and replication of polydimethylsiloxane by-products located within electrical trees. , 2012, , .		0
36	Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS <sub>1-x</sub> Se <sub>x</sub> . <i>Journal of the American Chemical Society</i> , 2011, 133, 5602-5609.	13.7	59

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37	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20275.	2.8	76
38	Comparison of the electronic structure of $\text{LnBaCo}_2\text{O}_{5+\delta}$ (Ln=Gd, Dy; Ln-112) and $\text{LnBaCo}_4\text{O}_7$ (Ln=Yb); Tj ETQq0 0 0 rgBT /Overlock 10 Related Phenomena, 2011, 184, 227-231.	1.7	0
39	A greener route to photoelectrochemically active PbS nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 2336.	6.7	93
40	Efficient carrier multiplication in InP nanoparticles. <i>Physical Review B</i> , 2010, 81, .	3.2	98
41	Developing InP-based solar cells: Time-resolved terahertz measurements of photoconductivity and carrier multiplication efficiencies. , 2010, , .		0
42	Fundamental Interactions at Oxide Surfaces: Understanding Novel Dye-sensitised Solar Cells. , 2009, , .		0
43	Large single crystals of $\text{LnBaCo}_2\text{O}_{5.5}$ : Initial nucleation, growth and study. <i>Journal of Crystal Growth</i> , 2008, 310, 1867-1874.	1.5	7
44	Electronic properties of the interface between p-CuI and anatase-phase n-TiO <sub>2</sub> single crystal and nanoparticulate surfaces: A photoemission study. <i>Journal of Chemical Physics</i> , 2007, 127, 114703.	3.0	40
45	Comparison of the electronic structure of anatase and rutileTiO <sub>2</sub> single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. <i>Physical Review B</i> , 2007, 75, .	3.2	249
46	Adsorption of phenylalanine on single crystal rutile TiO <sub>2</sub> (110) surface. <i>Surface Science</i> , 2007, 601, 3828-3832.	1.9	37
47	4GLS: the UK's fourth generation light source. , 2005, , .		3
48	Sub-liquidus co-crystallization in the $\text{Ln}_2\text{O}_3\text{-BaO-CoO}$ system: growth of large $\text{LnBaCo}_2\text{O}_{5+x}$ (Ln=Eu.) Tj ETQq0 0 0 rgBT /Overlock 1.5	1.5	0
49	Adsorption of bi-isonicotinic acid on anatase TiO <sub>2</sub> (101) and (001) studied by photoemission and NEXAFS spectroscopy. <i>Surface Science</i> , 2005, 592, 159-168.	1.9	27
50	4GLSâ€”the UKâ€™s fourth generation light source at Daresbury: new prospects in biological surface science. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2405-S2412.	1.8	7
51	Resonant photoemission of single-crystal $\text{RBaCo}_2\text{O}_{5+\delta}$ (R=Gd, Dy). <i>Physical Review B</i> , 2004, 70, .	3.2	41
52	Resonant photoemission of anataseTiO <sub>2</sub> (101) and (001) single crystals. <i>Physical Review B</i> , 2003, 67, .	3.2	129
53	Investigations of chemical and electronic inhomogeneities in $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ via highly spatially resolved electron energy loss spectroscopy. <i>Journal of Applied Physics</i> , 2003, 94, 6639-6643.	2.5	2
54	ELECTRONIC STRUCTURE AND REACTIVITY OF TM-DOPED $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ (TM = Ni, Fe) CATALYSTS. <i>Surface Review and Letters</i> , 2002, 09, 277-283.	1.1	2

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55	A NEW XUV BEAMLINE ON A MULTI-POLE WIGGLER IN THE SRS. <i>Surface Review and Letters</i> , 2002, 09, 577-581.	1.1	21
56	The effect of chemisorbed dyes on the $\nu$ tunnel characteristics of nanocrystalline anatase TiO <sub>2</sub> observed in scanning tunnelling spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 148, 145-151.	3.9	3
57	The effect of chemisorbed dyes on $\nu$ characteristics of mesoporous TiO <sub>2</sub> observed in scanning tunnelling spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 224-228.	2.7	2
58	X-Ray powder diffraction and EXAFS studies on SnAPO-5 and Cu <sup>2+</sup> /SnAPO-5. <i>Journal of Materials Chemistry</i> , 2001, 11, 620-627.	6.7	12
59	Resonance photoemission of LaCoO <sub>3</sub> (111) and La <sub>0.9</sub> Sr <sub>0.1</sub> CoO <sub>3</sub> (111). <i>Journal of Physics Condensed Matter</i> , 2000, 12, 9259-9279.	1.8	13
60	Photoemission studies of single crystal CuO(100). <i>Journal of Physics Condensed Matter</i> , 1999, 11, 5021-5043.	1.8	24
61	Electronic structure and surface reactivity of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> . <i>Faraday Discussions</i> , 1999, 114, 407-420.	3.2	13
62	Adsorption of H <sub>2</sub> O on single crystal CuO. <i>Surface Science</i> , 1999, 436, 1-8.	1.9	22
63	Review of Applications of High-Temperature Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1998, 11, 209-213.	0.5	8
64	Catalytically enhanced absorption of sulphur species from odorous air streams: A new technology for odour abatement. <i>Catalysis Today</i> , 1998, 40, 289-296.	4.4	10
65	EXAFS studies of SrSn <sub>1-x</sub> Sb <sub>x</sub> O <sub>3</sub> and BaPb <sub>1-x</sub> Bi <sub>x</sub> O <sub>3</sub> . <i>Journal of Materials Chemistry</i> , 1997, 7, 357-364.	6.7	14
66	Electronic structure, reactivity and solid-state chemistry of La <sub>2-x</sub> Sr <sub>x</sub> Ni <sub>1-y</sub> FeyO <sub>4</sub> . <i>Faraday Discussions</i> , 1996, 105, 337-354.	3.2	19
67	Potentials for B-metal compounds: The stannates ASnO <sub>3</sub> (A = Ca, Sr or Ba) and SnO <sub>2</sub> . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996, 73, 33-39.	0.6	10
68	Catalytic properties of SrSn <sub>1-x</sub> Sb <sub>x</sub> O <sub>3</sub> in methanol oxidation. <i>Catalysis Letters</i> , 1996, 39, 97-104.	2.6	9
69	Resonant Photoemission from Complex Cuprates and Nickelates. <i>Journal of Synchrotron Radiation</i> , 1995, 2, 264-271.	2.4	11
70	Angle-resolved-photoemission study of the BaPb <sub>0.81</sub> Bi <sub>0.19</sub> O <sub>3</sub> (001) surface. <i>Physical Review B</i> , 1994, 49, 595-599.	3.2	4
71	High-resolution XPS studies of superconducting Ag/(Bi <sub>0.9</sub> Pb <sub>0.1</sub> ) <sub>2</sub> Sr <sub>2</sub> OCa <sub>1.9</sub> Cu <sub>3</sub> O <sub>10+x</sub> tapes and wires. <i>Surface and Interface Analysis</i> , 1994, 21, 764-770.	1.8	4
72	A photoemission study of Bi <sub>3.6</sub> Pb <sub>0.4</sub> Sr <sub>3</sub> Ca <sub>2.4</sub> Er <sub>0.7</sub> Cu <sub>4</sub> O <sub>16</sub> in normal and superconducting states. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 222, 105-110.	1.2	1

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73	Surface electronic structure of the $\text{SrSn}_{1-x}\text{Sb}_x\text{O}_3$ perovskite system. <i>Surface Science</i> , 1994, 311, 181-188.	1.9	7
74	Chemical vapour deposition of $\text{ZrO}_2$ thin films monitored by IR spectroscopy. <i>Journal of Materials Chemistry</i> , 1994, 4, 1815.	6.7	31
75	The influence of oxygen deficiency and Sb doping on inverse photoemission spectra of $\text{SnO}_2$ . <i>Surface Science</i> , 1993, 280, 393-397.	1.9	15
76	Surface stability of superconducting oxides. <i>Journal of Alloys and Compounds</i> , 1993, 195, 535-542.	5.5	15
77	Influence of the metal-to-non-metal transition on the surface degradation of $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ . <i>Superconductor Science and Technology</i> , 1992, 5, 648-653.	3.5	7
78	Materials chemistry communications. Pb and Bi Valencies in $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ . <i>Journal of Materials Chemistry</i> , 1992, 2, 1209-1210.	6.7	2
79	Resonance photoemission from single crystalline $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ at the Cu 3p absorption edge. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 193, 309-313.	1.2	4
80	Surface segregation of Sr in doped $\text{MgO}$ . comparison between X-ray photoelectron spectroscopy and atomistic ionic model simulations. <i>Journal of Materials Chemistry</i> , 1991, 1, 785.	6.7	9
81	Metal-to-non-metal transitions in high-temperature oxide superconductors monitored by photoelectron spectroscopy. <i>Journal of Materials Chemistry</i> , 1991, 1, 63.	6.7	9
82	Infrared reflectance spectra of Sb-doped $\text{SnO}_2$ ceramics. <i>Journal of Materials Chemistry</i> , 1991, 1, 451.	6.7	7
83	Photoemission in the study of oxide superconductors. <i>Journal of Materials Chemistry</i> , 1991, 1, 489.	6.7	9
84	Anomalous enhancement of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Fermi-level states near the O 2s threshold. <i>Physical Review B</i> , 1991, 44, 878-881.	3.2	14
85	Photoemission studies of oxide superconductors. <i>Superconductor Science and Technology</i> , 1990, 3, 8-19.	3.5	32
86	$\text{H}_2\text{O}$ adsorption on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8(001)$ . <i>Physical Review B</i> , 1990, 41, 11623-11626.	3.2	37
87	Parallel valence- and core-level photoemission studies of the metal-to-nonmetal transition in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . <i>Physical Review B</i> , 1989, 39, 231-235.	3.2	27
88	Preparation of $\text{Bi}_4(\text{Sr}, \text{Ca})_6\text{Cu}_4\text{O}_{16+x}$ surfaces for photoemission studies by in situ oxygen annealing. <i>Superconductor Science and Technology</i> , 1989, 1, 221-226.	3.5	14
89	Parallel core and valence photoemission studies of nominal $(\text{Bi}_{0.9}\text{Pb}_{0.1})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$ . <i>Superconductor Science and Technology</i> , 1989, 2, 185-191.	3.5	16
90	Nondestructive preparation of thin-film $\text{Bi}_2(\text{Sr}, \text{Ca})_3\text{Cu}_2\text{O}_8+x$ surfaces for photoemission studies by in situ oxygen annealing. <i>Superconductor Science and Technology</i> , 1989, 2, 279-283.	3.5	11

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91	Is the surface of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> intrinsically non-metallic?. European Physical Journal B, 1989, 74, 279-282.	1.5	9
92	Observation of electronic Raman scattering in Y <sub>2</sub> BaCuO <sub>5</sub> . Solid State Communications, 1989, 69, 631-633.	1.9	4
93	Atmospheric degradation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> : A study by infrared reflectance, Raman scattering, and X-ray photoelectron spectroscopy. Journal of Solid State Chemistry, 1989, 79, 238-249.	2.9	24
94	Sr segregation in doped MgO. Journal of Physics Condensed Matter, 1989, 1, SB237-SB238.	1.8	2
95	Preparation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> surfaces for photoemission studies by in situ oxygen annealing. Superconductor Science and Technology, 1988, 1, 118-122.	3.5	23
96	Solid-state and surface chemistry of Sn-doped In <sub>2</sub> O <sub>3</sub> ceramics. Journal of Solid State Chemistry, 1987, 68, 340-350.	2.9	42
97	Surface and interface phonon and plasmon excitations in iii-v semiconductor materials. Journal of Electron Spectroscopy and Related Phenomena, 1987, 45, 177-187.	1.7	19
98	Oxygen deficient SnO <sub>2</sub> (110) and TiO <sub>2</sub> (110): A comparative study by photoemission. Solid State Communications, 1986, 60, 835-838.	1.9	106
99	The high-resolution electron-energy-loss spectrum of TiO <sub>2</sub> (110). Journal of Electron Spectroscopy and Related Phenomena, 1986, 39, 117-126.	1.7	32
100	Antimony-doped tin(IV) oxide: Surface composition and electronic structure. Journal of Solid State Chemistry, 1984, 51, 345-354.	2.9	86
101	Observation of surface optical phonons on SnO <sub>2</sub> (110). Vacuum, 1983, 33, 835-838.	3.5	23