

Wendy Flavell

List of Publications by Year in descending order

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101
papers

2,477
citations

270111

25
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46
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103
all docs

103
docs citations

103
times ranked

3798
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of the electronic structure of anatase and rutile TiO ₂ single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. <i>Physical Review B</i> , 2007, 75, .	1.1	249
2	Resonant photoemission of anatase TiO ₂ (101) and (001) single crystals. <i>Physical Review B</i> , 2003, 67, .	1.1	129
3	Oxygen deficient SnO ₂ (110) and TiO ₂ (110): A comparative study by photoemission. <i>Solid State Communications</i> , 1986, 60, 835-838.	0.9	106
4	Efficient carrier multiplication in InP nanoparticles. <i>Physical Review B</i> , 2010, 81, .	1.1	98
5	A greener route to photoelectrochemically active PbS nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 2336.	6.7	93
6	Antimony-doped tin(IV) oxide: Surface composition and electronic structure. <i>Journal of Solid State Chemistry</i> , 1984, 51, 345-354.	1.4	86
7	Near-Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots. <i>Small</i> , 2015, 11, 1548-1554.	5.2	86
8	Ambient-air-stable inorganic Cs ₂ SnI ₆ double perovskite thin films via aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11205-11214.	5.2	85
9	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.	2.2	78
10	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20275.	1.3	76
11	Surface Properties of Nanocrystalline PbS Films Deposited at the Water/Oil Interface: A Study of Atmospheric Aging. <i>Langmuir</i> , 2015, 31, 1445-1453.	1.6	74
12	Time-resolved surface photovoltage measurements at n-type photovoltaic surfaces: Si(111) and ZnO(100). <i>Physical Review B</i> , 2013, 88, .	1.1	61
13	Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS _x Se _{1-x} . <i>Journal of the American Chemical Society</i> , 2011, 133, 5602-5609.	6.6	59
14	Adsorbate-Induced Modification of Surface Electronic Structure: Pyrocatechol Adsorption on the Anatase TiO ₂ (101) and Rutile TiO ₂ (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23515-23525.	1.5	57
15	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.	1.5	50
16	Solid-state and surface chemistry of Sn-doped In ₂ O ₃ ceramics. <i>Journal of Solid State Chemistry</i> , 1987, 68, 340-350.	1.4	42
17	Resonant photoemission of single-crystal RBaCo ₂ O _{5+δ} (R=Gd, Dy). <i>Physical Review B</i> , 2004, 70, .	1.1	41
18	Electronic properties of the interface between p-CuI and anatase-phase n-TiO ₂ single crystal and nanoparticulate surfaces: A photoemission study. <i>Journal of Chemical Physics</i> , 2007, 127, 114703.	1.2	40

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19	H ₂ O adsorption on Bi ₂ Sr ₂ CaCu ₂ O ₈ (001). Physical Review B, 1990, 41, 11623-11626.	1.1	37
20	Adsorption of phenylalanine on single crystal rutile TiO ₂ (110) surface. Surface Science, 2007, 601, 3828-3832.	0.8	37
21	The high-resolution electron-energy-loss spectrum of TiO ₂ (110). Journal of Electron Spectroscopy and Related Phenomena, 1986, 39, 117-126.	0.8	32
22	Photoemission studies of oxide superconductors. Superconductor Science and Technology, 1990, 3, 8-19.	1.8	32
23	Chemical vapour deposition of ZrO ₂ thin films monitored by IR spectroscopy. Journal of Materials Chemistry, 1994, 4, 1815.	6.7	31
24	The passivating effect of cadmium in PbS/CdS colloidal quantum dots probed by nm-scale depth profiling. Nanoscale, 2017, 9, 6056-6067.	2.8	29
25	Parallel valence- and core-level photoemission studies of the metal-to-nonmetal transition in YBa ₂ Cu ₃ O _{7-x} . Physical Review B, 1989, 39, 231-235.	1.1	27
26	Adsorption of bi-isonicotinic acid on anatase TiO ₂ (101) and (001) studied by photoemission and NEXAFS spectroscopy. Surface Science, 2005, 592, 159-168.	0.8	27
27	Atmospheric degradation of YBa ₂ Cu ₃ O ₇ : A study by infrared reflectance, Raman scattering, and X-ray photoelectron spectroscopy. Journal of Solid State Chemistry, 1989, 79, 238-249.	1.4	24
28	Photoemission studies of single crystal CuO(100). Journal of Physics Condensed Matter, 1999, 11, 5021-5043.	0.7	24
29	Charge dynamics at heterojunctions for PbS/ZnO colloidal quantum dot solar cells probed with time-resolved surface photovoltage spectroscopy. Applied Physics Letters, 2016, 108, .	1.5	24
30	Multiple Exciton Generation and Dynamics in InP/CdS Colloidal Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 2099-2107.	1.5	24
31	Observation of surface optical phonons on SnO ₂ (110). Vacuum, 1983, 33, 835-838.	1.6	23
32	Preparation of YBa ₂ Cu ₃ O ₇ surfaces for photoemission studies by in situ oxygen annealing. Superconductor Science and Technology, 1988, 1, 118-122.	1.8	23
33	Adsorption of H ₂ O on single crystal CuO. Surface Science, 1999, 436, 1-8.	0.8	22
34	A NEW XUV BEAMLINER ON A MULTI-POLE WIGGLER IN THE SRS. Surface Review and Letters, 2002, 09, 577-581.	0.5	21
35	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101,0). Faraday Discussions, 2014, 171, 275-298.	1.6	20
36	Surface and interface phonon and plasmon excitations in iii-v semiconductor materials. Journal of Electron Spectroscopy and Related Phenomena, 1987, 45, 177-187.	0.8	19

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37	Electronic structure, reactivity and solid-state chemistry of $\text{La}_{2-x}\text{Sr}_x\text{Ni}_1-y\text{Fe}_y\text{O}_4$. Faraday Discussions, 1996, 105, 337-354.	1.6	19
38	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. Surface Science, 2015, 641, 320-325.	0.8	17
39	Photocatalytic hydrogen production by biomimetic indium sulfide using Mimosa pudica leaves as template. International Journal of Hydrogen Energy, 2019, 44, 2770-2783.	3.8	17
40	Parallel core and valence photoemission studies of nominal $(\text{Bi}_{0.9}\text{Pb}_{0.1})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$. Superconductor Science and Technology, 1989, 2, 185-191.	1.8	16
41	Influence of Multistep Surface Passivation on the Performance of PbS Colloidal Quantum Dot Solar Cells. Langmuir, 2018, 34, 8887-8897.	1.6	16
42	Role of Alkali Cations in Stabilizing Mixed-Cation Perovskites to Thermal Stress and Moisture Conditions. ACS Applied Materials & Interfaces, 2021, 13, 43573-43586.	4.0	16
43	The influence of oxygen deficiency and Sb doping on inverse photoemission spectra of SnO_2 . Surface Science, 1993, 280, 393-397.	0.8	15
44	Surface stability of superconducting oxides. Journal of Alloys and Compounds, 1993, 195, 535-542.	2.8	15
45	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. Superconductor Science and Technology, 1989, 1, 221-226.	1.8	14
46	Anomalous enhancement of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Fermi-level states near the O 2s threshold. Physical Review B, 1991, 44, 878-881.	1.1	14
47	EXAFS studies of $\text{SrSn}_{1-x}\text{Sb}_x\text{O}_3$ and $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$. Journal of Materials Chemistry, 1997, 7, 357-364.	6.7	14
48	Visualizing the role of photoinduced ion migration on photoluminescence in halide perovskite grains. Journal of Materials Chemistry C, 2020, 8, 7509-7518.	2.7	14
49	Electronic structure and surface reactivity of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. Faraday Discussions, 1999, 114, 407-420.	1.6	13
50	Resonance photoemission of $\text{LaCoO}_3(111)$ and $\text{La}_{0.9}\text{Sr}_{0.1}\text{CoO}_3(111)$. Journal of Physics Condensed Matter, 2000, 12, 9259-9279.	0.7	13
51	Air-Stable Methylammonium Lead Iodide Perovskite Thin Films Fabricated via Aerosol-Assisted Chemical Vapor Deposition from a Pseudohalide $\text{Pb}(\text{SCN})_2$ Precursor. ACS Applied Energy Materials, 2019, 2, 6012-6022.	2.5	13
52	X-Ray powder diffraction and EXAFS studies on SnAPO-5 and $\text{Cu}^{\text{II}}\text{SnAPO-5}$. Journal of Materials Chemistry, 2001, 11, 620-627.	6.7	12
53	Surface and Interface Chemistry in Colloidal Quantum Dots for Solar Applications Studied by X-Ray Photoelectron Spectroscopy. Chemical Record, 2019, 19, 1233-1243.	2.9	12
54	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. Superconductor Science and Technology, 1989, 2, 279-283.	1.8	11

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55	Resonant Photoemission from Complex Cuprates and Nickelates. Journal of Synchrotron Radiation, 1995, 2, 264-271.	1.0	11
56	Adsorption and stability of malonic acid on rutile TiO ₂ (110), studied by near edge X-ray absorption fine structure and photoelectron spectroscopy. Surface Science, 2014, 626, 14-20.	0.8	11
57	Potentials for B-metal compounds: The stannates ASnO ₃ (A = Ca, Sr or Ba) and SnO ₂ . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1996, 73, 33-39.	0.6	10
58	Catalytically enhanced absorption of sulphur species from odorous air streams: A new technology for odour abatement. Catalysis Today, 1998, 40, 289-296.	2.2	10
59	Growth of nanocrystalline thin films of metal sulfides [CdS, ZnS, CuS and PbS] at the water-oil interface. RSC Advances, 2015, 5, 62291-62299.	1.7	10
60	Tuning the Charge Carriers Migration in Epitaxial BaTiO ₃ Thin-Film Photoanodes. Journal of Physical Chemistry C, 2020, 124, 10315-10323.	1.5	10
61	Quantification of hard X-ray photoelectron spectroscopy: Calculating relative sensitivity factors for 1.5-10 keV photons in any instrument geometry. Surface and Interface Analysis, 2022, 54, 442-454.	0.8	10
62	Is the surface of YBa ₂ Cu ₃ O _{7-x} intrinsically non-metallic?. European Physical Journal B, 1989, 74, 279-282.	0.6	9
63	Surface segregation of Sr in doped MgO. comparison between X-ray photoelectron spectroscopy and atomistic ionic model simulations. Journal of Materials Chemistry, 1991, 1, 785.	6.7	9
64	Metal-to-non-metal transitions in high-temperature oxide superconductors monitored by photoelectron spectroscopy. Journal of Materials Chemistry, 1991, 1, 63.	6.7	9
65	Photoemission in the study of oxide superconductors. Journal of Materials Chemistry, 1991, 1, 489.	6.7	9
66	Catalytic properties of SrSn _{1-x} Sb _x O ₃ in methanol oxidation. Catalysis Letters, 1996, 39, 97-104.	1.4	9
67	Domain formation mechanism of the Si(110) $\sqrt{16 \times 16}$ reconstruction. Physical Review B, 2017, 95, .		
68	Review of Applications of High-Temperature Superconductors. Journal of Superconductivity and Novel Magnetism, 1998, 11, 209-213.	0.5	8
69	Infrared reflectance spectra of Sb-doped SnO ₂ ceramics. Journal of Materials Chemistry, 1991, 1, 451.	6.7	7
70	Influence of the metal-to-non-metal transition on the surface degradation of BaPb _{1-x} Bi _x O ₃ . Superconductor Science and Technology, 1992, 5, 648-653.	1.8	7
71	Surface electronic structure of the SrSn _{1-x} Sb _x O ₃ perovskite system. Surface Science, 1994, 311, 181-188.	0.8	7
72	4GLS—the UK's fourth generation light source at Daresbury: new prospects in biological surface science. Journal of Physics Condensed Matter, 2004, 16, S2405-S2412.	0.7	7

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73	Large single crystals of LnBaCo ₂ O _{5.5} : Initial nucleation, growth and study. Journal of Crystal Growth, 2008, 310, 1867-1874.	0.7	7
74	Origin of the two-dimensional electron gas at the CdO (100) surface. Physical Review B, 2019, 99, .	1.1	7
75	Sub-liquidus co-crystallization in the Ln ₂ O ₃ -BaO-CoO system: growth of large LnBaCo ₂ O _{5+x} (Ln=Eu, Tj ETQg1.1 0.784314 rgB	0.7	6
76	Observation of electronic Raman scattering in Y ₂ BaCuO ₅ . Solid State Communications, 1989, 69, 631-633.	0.9	4
77	Resonance photoemission from single crystalline Bi ₂ Sr ₂ CaCu ₂ O ₈ at the Cu 3p absorption edge. Physica C: Superconductivity and Its Applications, 1992, 193, 309-313.	0.6	4
78	Angle-resolved-photoemission study of theBaPb _{0.81} Bi _{0.19} O ₃ (001) surface. Physical Review B, 1994, 49, 595-599.	1.1	4
79	High-resolution XPS studies of superconducting Ag/(Bi _{0.9} Pb _{0.1}) _{2.3} Sr _{2.0} Ca _{1.9} Cu _{3.0} O _{10+x} tapes and wires. Surface and Interface Analysis, 1994, 21, 764-770.	0.8	4
80	Photo- and Electroluminescence from Zn-Doped In Semiconductor Nanocrystals. Advanced Optical Materials, 2020, 8, 2000604.	3.6	4
81	Characterization of buried interfaces using Ga K α hard X-ray photoelectron spectroscopy (HAXPES). Faraday Discussions, 2022, 236, 311-337.	1.6	4
82	The effect of chemisorbed dyes on the I-V tunnel characteristics of nanocrystalline anatase TiO ₂ observed in scanning tunnelling spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 145-151.	2.0	3
83	4GLS: the UK's fourth generation light source. , 2005, , .		3
84	Symmetry-breaking and spin-blockage effects on carrier dynamics in single-layer tungsten diselenide. Physical Review B, 2019, 100, .	1.1	3
85	Sr segregation in doped MgO. Journal of Physics Condensed Matter, 1989, 1, SB237-SB238.	0.7	2
86	Materials chemistry communications. Pb and Bi Valencies in BaPb _{1-x} Bi _x O ₃ . Journal of Materials Chemistry, 1992, 2, 1209-1210.	6.7	2
87	ELECTRONIC STRUCTURE AND REACTIVITY OF TM-DOPED La _{1-x} Sr _x CoO ₃ (TM = Ni, Fe) CATALYSTS. Surface Review and Letters, 2002, 09, 277-283.	0.5	2
88	The effect of chemisorbed dyes on I-V characteristics of mesoporous TiO ₂ observed in scanning tunnelling spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 224-228.	1.3	2
89	Investigations of chemical and electronic inhomogeneities in BaPb _{1-x} Bi _x O ₃ via highly spatially resolved electron energy loss spectroscopy. Journal of Applied Physics, 2003, 94, 6639-6643.	1.1	2
90	Surface band bending and carrier dynamics in colloidal quantum dot solids. Nanoscale, 2021, 13, 17793-17806.	2.8	2

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91	A photoemission study of Bi _{3.6} Pb _{0.4} Sr ₃ Ca _{2.4} Er _{0.7} Cu ₄ O ₁₆ in normal and superconducting states. Physica C: Superconductivity and Its Applications, 1994, 222, 105-110.	0.6	1
92	Spin-orbit effects at chiral surfaces. Physical Review B, 2018, 97, .	1.1	1
93	Spin- and angle-resolved photoemission studies of the electronic structure of Si(110) \hat{e} surfaces. Physical Review B, 2019, 100, .		
94	Fundamental Interactions at Oxide Surfaces: Understanding Novel Dye-sensitised Solar Cells. , 2009, , .		0
95	Developing InP-based solar cells: Time-resolved terahertz measurements of photoconductivity and carrier multiplication efficiencies. , 2010, , .		0
96	Comparison of the electronic structure of LnBaCo ₂ O ₅ + \hat{r} (Ln=Gd, Dy; Ln-112) and LnBaCo ₄ O ₇ (Ln=Yb); Tj ETQq0 0 0 rgBT /Overlock 10 Related Phenomena, 2011, 184, 227-231.	0.8	0
97	The chemical analysis and replication of polydimethylsiloxane by-products located within electrical trees. , 2012, , .		0
98	Determining carrier multiplication efficiencies: Time-resolved terahertz spectroscopy on colloidal quantum dot solutions. , 2013, , .		0
99	Developing terahertz sources with longitudinal polarisation components for the energy modulation of relativistic electrons. , 2013, , .		0
100	Chemical reaction dynamics II and Correlated systems, surfaces and catalysis: general discussion. Faraday Discussions, 2014, 171, 323-356.	1.6	0
101	Photoluminescence: Near-Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots (Small 13/2015). Small, 2015, 11, 1482-1482.	5.2	0