Wendy Flavell

List of Publications by Year
in descending order

101 papers	2,477 citations	236925 25 h-index	223800 46 g-index
103 all docs	103 docs citations	103 times ranked	3341 citing authors

#	Article	IF	Citations
1	Comparison of the electronic structure of anatase and rutileTiO2single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. Physical Review B, 2007, 75, .	3.2	249
2	Resonant photoemission of anataseTiO2(101) and (001) single crystals. Physical Review B, 2003, 67, .	3.2	129
3	Oxygen deficient SnO2 (110) and TiO2 (110): A comparative study by photoemission. Solid State Communications, 1986, 60, 835-838.	1.9	106
4	Efficient carrier multiplication in InP nanoparticles. Physical Review B, 2010, 81, .	3.2	98
5	A greener route to photoelectrochemically active PbS nanoparticles. Journal of Materials Chemistry, 2010, 20, 2336.	6.7	93
6	Antimony-doped tin(IV) oxide: Surface composition and electronic structure. Journal of Solid State Chemistry, 1984, 51, 345-354.	2.9	86
7	Nearâ€Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots. Small, 2015, 11, 1548-1554.	10.0	86
8	Ambient-air-stable inorganic Cs₂SnI₆double perovskite thin filmsviaaerosol-assisted chemical vapour deposition. Journal of Materials Chemistry A, 2018, 6, 11205-11214.	10.3	85
9	In situ investigation of degradation at organometal halide perovskite surfaces by X-ray photoelectron spectroscopy at realistic water vapour pressure. Chemical Communications, 2017, 53, 5231-5234.	4.1	78
10	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. Physical Chemistry Chemical Physics, 2011, 13, 20275.	2.8	76
11	Surface Properties of Nanocrystalline PbS Films Deposited at the Waterâ€“Oil Interface: A Study of Atmospheric Aging. Langmuir, 2015, 31, 1445-1453.	3.5	74
12	Time-resolved surface photovoltage measurements at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type photovoltaic surfaces: Si(111) and ZnO(10<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mover) Tj ETQq0 0 0 rgBT /Overlock 10 Review B, 2013, 88, .	3.2	61
13	Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS_xSe_{1â^'x}. Journal of the American Chemical Society, 2011, 133, 5602-5609.	13.7	59
14	Adsorbate-Induced Modification of Surface Electronic Structure: Pyrocatechol Adsorption on the Anatase TiO₂ (101) and Rutile TiO₂ (110) Surfaces. Journal of Physical Chemistry C, 2012, 116, 23515-23525.	3.1	57
15	Growth and Characterization of Strained and Alloyed Type-II ZnTe/ZnSe Coreâ€“Shell Nanocrystals. Journal of Physical Chemistry C, 2012, 116, 26898-26907.	3.1	50
16	Solid-state and surface chemistry of Sn-doped In2O3 ceramics. Journal of Solid State Chemistry, 1987, 68, 340-350.	2.9	42
17	Resonant photoemission of single-crystal RBaCo2O5+Î´ (R=Gd, Dy). Physical Review B, 2004, 70, .	3.2	41
18	Electronic properties of the interface between p-CuI and anatase-phase n-TiO2 single crystal and nanoparticulate surfaces: A photoemission study. Journal of Chemical Physics, 2007, 127, 114703.	3.0	40

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19	H2O adsorption onBi2Sr2CaCu2O8(001). Physical Review B, 1990, 41, 11623-11626.	3.2	37
20	Adsorption of phenylalanine on single crystal rutile TiO2(110) surface. Surface Science, 2007, 601, 3828-3832.	1.9	37
21	The high-resolution electron-energy-loss spectrum of TiO2(110). Journal of Electron Spectroscopy and Related Phenomena, 1986, 39, 117-126.	1.7	32
22	Photoemission studies of oxide superconductors. Superconductor Science and Technology, 1990, 3, 8-19.	3.5	32
23	Chemical vapour deposition of ZrO2 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.	5.6	29
25	Parallel valence- and core-level photoemission studies of the metal-to-nonmetal transition inYBa2Cu3O7âˆ’x. Physical Review B, 1989, 39, 231-235.	3.2	27
26	Adsorption of bi-isonicotinic acid on anatase TiO2(101) and (001) studied by photoemission and NEXAFS spectroscopy. Surface Science, 2005, 592, 159-168.	1.9	27
27	Atmospheric degradation of YBa2Cu3O7: A study by infrared reflectance, Raman scattering, and X-ray photoelectron spectroscopy. Journal of Solid State Chemistry, 1989, 79, 238-249.	2.9	24
28	Photoemission studies of single crystal CuO(100). Journal of Physics Condensed Matter, 1999, 11, 5021-5043.	1.8	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, .	3.3	24
30	Multiple Exciton Generation and Dynamics in InP/CdS Colloidal Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 2099-2107.	3.1	24
31	Observation of surface optical phonons on SnO2 (110). Vacuum, 1983, 33, 835-838.	3.5	23
32	Preparation of YBa2Cu3O7surfaces for photoemission studies by in situ oxygen annealing. Superconductor Science and Technology, 1988, 1, 118-122.	3.5	23
33	Adsorption of H2O on single crystal CuO. Surface Science, 1999, 436, 1-8.	1.9	22
34	A NEW XUV BEAMLINE ON A MULTI-POLE WIGGLER IN THE SRS. Surface Review and Letters, 2002, 09, 577-581.	1.1	21
35	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101Ì„0). Faraday Discussions, 2014, 171, 275-298.	3.2	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.	1.7	19

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37	Electronic structure, reactivity and solid-state chemistry of La2 â€“xSrxNi1 â€“yFeyO4 +Î´. Faraday Discussions, 1996, 105, 337-354.	3.2	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.	1.9	17
39	Photocatalytic hydrogen production by biomimetic indium sulfide using Mimosa pudica leaves as template. International Journal of Hydrogen Energy, 2019, 44, 2770-2783.	7.1	17
40	Parallel core and valence photoemission studies of nominal (Bi0.9Pb0.1)2Sr2Ca2Cu3O10+x. Superconductor Science and Technology, 1989, 2, 185-191.	3.5	16
41	Influence of Multistep Surface Passivation on the Performance of PbS Colloidal Quantum Dot Solar Cells. Langmuir, 2018, 34, 8887-8897.	3.5	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.	8.0	16
43	The influence of oxygen deficiency and Sb doping on inverse photoemission spectra of SnO2. Surface Science, 1993, 280, 393-397.	1.9	15
44	Surface stability of superconducting oxides. Journal of Alloys and Compounds, 1993, 195, 535-542.	5.5	15
45	Preparation of Bi4(Sr, Ca)6Cu4O16+xsurfaces for photoemission studies by in situ oxygen annealing. Superconductor Science and Technology, 1989, 1, 221-226.	3.5	14
46	Anomalous enhancement ofBi2Sr2CaCu2O8Fermi-level states near the O 2sthreshold. Physical Review B, 1991, 44, 878-881.	3.2	14
47	EXAFS studies of SrSn1â^'xSbxO3 and BaPb1â^'xBixO3. 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.	5.5	14
49	Electronic structure and surface reactivity of La1-xSrxCoO3. Faraday Discussions, 1999, 114, 407-420.	3.2	13
50	Resonance photoemission of LaCoO3(111) and La0.9Sr0.1CoO3(111). Journal of Physics Condensed Matter, 2000, 12, 9259-9279.	1.8	13
51	Air-Stable Methylammonium Lead Iodide Perovskite Thin Films Fabricated via Aerosol-Assisted Chemical Vapor Deposition from a Pseudohalide Pb(SCN)₂ Precursor. ACS Applied Energy Materials, 2019, 2, 6012-6022.	5.1	13
52	X-Ray powder diffraction and EXAFS studies on SnAPO-5 and Cuâ^¶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 Xâ€Ray Photoelectron Spectroscopy. Chemical Record, 2019, 19, 1233-1243.	5.8	12
54	Nondestructive preparation of thin-film Bi2(Sr,Ca)3Cu2O8+xsurfaces for photoemission studies by in situ oxygen annealing. Superconductor Science and Technology, 1989, 2, 279-283.	3.5	11

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55	Resonant Photoemission from Complex Cuprates and Nickelates. Journal of Synchrotron Radiation, 1995, 2, 264-271.	2.4	11
56	Adsorption and stability of malonic acid on rutile TiO2 (110), studied by near edge X-ray absorption fine structure and photoelectron spectroscopy. Surface Science, 2014, 626, 14-20.	1.9	11
57	Potentials for B-metal compounds: The stannates ASnO₃ (A = Ca, Sr or Ba) and SnO₂. 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.	4.4	10
59	Growth of nanocrystalline thin films of metal sulfides [CdS, ZnS, CuS and PbS] at the waterâ€“oil interface. RSC Advances, 2015, 5, 62291-62299.	3.6	10
60	Tuning the Charge Carriers Migration in Epitaxial BaTiO₃ Thin-Film Photoanodes. Journal of Physical Chemistry C, 2020, 124, 10315-10323.	3.1	10
61	Quantification of hard Xâ€ray photoelectron spectroscopy: Calculating relative sensitivity factors for 1.5â€•to 10â€keV photons in any instrument geometry. Surface and Interface Analysis, 2022, 54, 442-454.	1.8	10
62	Is the surface of YBa2Cu3O7-x intrinsically non-metallic?. European Physical Journal B, 1989, 74, 279-282.	1.5	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 SrSn1â^'xSbxO3 in methanol oxidation. Catalysis Letters, 1996, 39, 97-104.	2.6	9
67	Domain formation mechanism of the Si(110) â€œ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>16</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>2</mml:mn> â€•reconstruction. Physical Review B, 2017, 95, .	3.7	9
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 SnO2 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 BaPb1-xBixO3. Superconductor Science and Technology, 1992, 5, 648-653.	3.5	7
71	Surface electronic structure of the SrSn1â^'xSbxO3 perovskite system. Surface Science, 1994, 311, 181-188.	1.9	7
72	4GLSâ€"the UKÂs fourth generation light source at Daresbury: new prospects in biological surface science. Journal of Physics Condensed Matter, 2004, 16, S2405-S2412.	1.8	7

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73	Large single crystals of LnBaCo2O5.5: Initial nucleation, growth and study. Journal of Crystal Growth, 2008, 310, 1867-1874.	1.5	7
74	Origin of the two-dimensional electron gas at the CdO (100) surface. Physical Review B, 2019, 99, .	3.2	7
75	Sub-liquidus co-crystallization in the Ln2O3â€“BaOâ€“CoO system: growth of large LnBaCo2O5+x (Ln=Eu,) Tj ETQq1 1 0.784314 rgBT	1.5	6
76	Observation of electronic Raman scattering in Y2BaCuO5. Solid State Communications, 1989, 69, 631-633.	1.9	4
77	Resonance photoemission from single crystalline Bi2Sr2CaCu2O8 at the Cu 3p absorption edge. Physica C: Superconductivity and Its Applications, 1992, 193, 309-313.	1.2	4
78	Angle-resolved-photoemission study of theBaPb0.81Bi0.19O3(001) surface. Physical Review B, 1994, 49, 595-599.	3.2	4
79	High-resolution XPS studies of superconducting Ag/(Bi0.9Pb0.1)2.3Sr2.0Ca1.9Cu3.0O10+x tapes and wires. Surface and Interface Analysis, 1994, 21, 764-770.	1.8	4
80	Photoâ€•and Electroluminescence from Znâ€Ðoped InN Semiconductor Nanocrystals. Advanced Optical Materials, 2020, 8, 2000604.	7.3	4
81	Characterization of buried interfaces using Ga KÎ± hard X-ray photoelectron spectroscopy (HAXPES). Faraday Discussions, 2022, 236, 311-337.	3.2	4
82	The effect of chemisorbed dyes on the Iâ€“V tunnel characteristics of nanocrystalline anatase TiO2 observed in scanning tunnelling spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 145-151.	3.9	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, .	3.2	3
85	Sr segregation in doped MgO. Journal of Physics Condensed Matter, 1989, 1, SB237-SB238.	1.8	2
86	Materials chemistry communications. Pb and Bi Valencies in BaPb1 â€“xBixO3. Journal of Materials Chemistry, 1992, 2, 1209-1210.	6.7	2
87	ELECTRONIC STRUCTURE AND REACTIVITY OF TM-DOPED La1-xSrxCoO3 (TM = Ni, Fe) CATALYSTS. Surface Review and Letters, 2002, 09, 277-283.	1.1	2
88	The effect of chemisorbed dyes on Iâ€“V characteristics of mesoporous TiO2 observed in scanning tunnelling spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 224-228.	2.7	2
89	Investigations of chemical and electronic inhomogeneities in BaPb1â^'xBixO3 via highly spatially resolved electron energy loss spectroscopy. Journal of Applied Physics, 2003, 94, 6639-6643.	2.5	2
90	Surface band bending and carrier dynamics in colloidal quantum dot solids. Nanoscale, 2021, 13, 17793-17806.	5.6	2

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91	A photoemission study of Bi3.6Pb0.4Sr3Ca2.4Er0.7Cu4O16 in normal and superconducting states. Physica C: Superconductivity and Its Applications, 1994, 222, 105-110.	1.2	1
92	Spin-orbit effects at chiral surfaces. Physical Review B, 2018, 97, .	3.2	1
93	Spin- and angle-resolved photoemission studies of the electronic structure of Si(110)â€œ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>16</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math>â€•surfaces. Physical Review B, 2019, 100, .	3.2	1
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 LnBaCo2O5+Î´ (Ln=Gd, Dy; Ln-112) and LnBaCo4O7 (Ln=Yb;) Tj ETQq0 0 0 rgBT /Overlock 10 Related Phenomena, 2011, 184, 227-231.	1.7	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.	3.2	0
101	Photoluminescence: Nearâ€Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots (Small 13/2015). Small, 2015, 11, 1482-1482.	10.0	0