

Justin Wells

List of Publications by Year in descending order

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109
papers

2,832
citations

172457

29
h-index

197818

49
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109
all docs

109
docs citations

109
times ranked

4771
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of spin-polarized bulk bands in an inversion-symmetric semiconductor. <i>Nature Physics</i> , 2014, 10, 835-839.	16.7	271
2	Atomic Hydrogen Adsorbate Structures on Graphene. <i>Journal of the American Chemical Society</i> , 2009, 131, 8744-8745.	13.7	255
3	Ubiquitous formation of bulk Dirac cones and topological surface states from a single orbital manifold in transition-metal dichalcogenides. <i>Nature Materials</i> , 2018, 17, 21-28.	27.5	144
4	High-Performance Perovskite Solar Cells Engineered by an Ammonia Modified Graphene Oxide Interfacial Layer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14503-14512.	8.0	120
5	Spin-valley locking in the normal state of a transition-metal dichalcogenide superconductor. <i>Nature Communications</i> , 2016, 7, 11711.	12.8	85
6	Comparing Ullmann Coupling on Noble Metal Surfaces: On-Surface Polymerization of 1,3,6,8-tetrabromopyrene on Cu(111) and Au(111). <i>Chemistry - A European Journal</i> , 2016, 22, 5937-5944.	3.3	84
7	Interfacial Nucleation Seeding for Electroluminescent Manipulation in Blue Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021, 31, 2103870.	14.9	72
8	Nondegenerate Metallic States on Bi(114): A One-Dimensional Topological Metal. <i>Physical Review Letters</i> , 2009, 102, 096802.	7.8	65
9	Surface-sensitive conductance measurements. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 013003.	1.8	65
10	Robust Surface Doping of Bi_2Se_3 by Rubidium Intercalation. <i>ACS Nano</i> , 2012, 6, 7009-7015.	14.6	64
11	Self-assembly of pyrene derivatives on Au(111): substituent effects on intermolecular interactions. <i>Chemical Communications</i> , 2014, 50, 14089-14092.	4.1	61
12	Disentangling Surface, Bulk, and Space-Charge-Layer Conductivity in $\text{Si}(111)\sqrt{7\times 7}$. <i>Physical Review Letters</i> , 2006, 97, 206803.	7.8	52
13	Interfacial electronic structures revealed at the rubrene/ $\text{CH}_3\text{NH}_3\text{PbI}_3$ interface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6546-6553.	2.8	50
14	Exploring the Limits of N-Type Ultra-Shallow Junction Formation. <i>ACS Nano</i> , 2013, 7, 5499-5505.	14.6	44
15	Tunable high aspect ratio polymer nanostructures for cell interfaces. <i>Nanoscale</i> , 2015, 7, 8438-8450.	5.6	44
16	Long-range ordered and atomic-scale control of graphene hybridization by photocycloaddition. <i>Nature Chemistry</i> , 2020, 12, 1035-1041.	13.6	41
17	Thickness dependence of dynamic and static magnetic properties of pulsed laser deposited $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ films on $\text{SrTiO}_3(001)$. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 369, 197-204.	2.3	40
18	On-surface manipulation of atom substitution between cobalt phthalocyanine and the Cu(111) substrate. <i>RSC Advances</i> , 2017, 7, 13827-13835.	3.6	40

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19	Direct measurement of electrical conductance through a self-assembled molecular layer. Nature Nanotechnology, 2009, 4, 373-376.	31.5	39
20	Low-Temperature Growth of Bismuth Thin Films with (111) Facet on Highly Oriented Pyrolytic Graphite. ACS Applied Materials & Interfaces, 2015, 7, 8525-8532.	8.0	39
21	Hierarchical spin-orbital polarization of a giant Rashba system. Science Advances, 2015, 1, e1500495.	10.3	38
22	Kinks in the Dirac Band of Graphene Induced by Electron-Phonon Coupling. Physical Review Letters, 2013, 111, 216806.	7.8	36
23	Determining the electron-phonon mass enhancement parameter λ on metal surfaces. Applied Physics A: Materials Science and Processing, 2005, 80, 943-949.	2.3	34
24	Iron-mediated growth of epitaxial graphene on SiC and diamond. Carbon, 2012, 50, 5099-5105.	10.3	34
25	Fabrication of NiSe ₂ by direct selenylation of a nickel surface. Applied Surface Science, 2018, 428, 623-629.	6.1	33
26	Growth and morphology of SnPc films on the S-GaAs(001) surface: a combined XPS, AFM and NEXAFS study. Applied Surface Science, 2004, 234, 131-137.	6.1	32
27	The conductivity of Bi(111) investigated with nanoscale four point probes. Journal of Applied Physics, 2008, 104, 053717.	2.5	32
28	Microscopic four-point-probe resistivity measurements of shallow, high density doping layers in silicon. Applied Physics Letters, 2012, 101, .	3.3	32
29	Direct Measurement of the Band Structure of a Buried Two-Dimensional Electron Gas. Physical Review Letters, 2013, 110, 136801.	7.8	30
30	Effects of monolayer Bi on the self-assembly of DBBA on Au(111). Surface Science, 2017, 665, 89-95.	1.9	30
31	Structural and electronic properties of atomically thin Bismuth on Au(111). Surface Science, 2019, 679, 147-153.	1.9	29
32	Strong electron-phonon coupling in the Dirac band of graphene. Physical Review B, 2017, 95, .	3.2	27
33	Surface-sensitive conductivity measurement using a micro multi-point probe approach. Review of Scientific Instruments, 2013, 84, 033901.	1.3	25
34	PbI ₂ /MoS ₂ Heterojunction: van der Waals Epitaxial Growth and Energy Band Alignment. Journal of Physical Chemistry Letters, 2019, 10, 4203-4208.	4.6	25
35	Material properties particularly suited to be measured with helium scattering: selected examples from 2D materials, van der Waals heterostructures, glassy materials, catalytic substrates, topological insulators and superconducting radio frequency materials. Physical Chemistry Chemical Physics, 2021, 23, 7653-7672.	2.8	25
36	Surface stoichiometry of La _{0.7} Sr _{0.3} MnO ₃ during in vacuo preparation; A synchrotron photoemission study. Surface Science, 2012, 606, 1360-1366.	1.9	24

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37	From MoO ₂ @MoS ₂ Core-Shell Nanorods to MoS ₂ Nanobelts. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800254.	1.5	23
38	Fabricating Quasi-Free-Standing Graphene on a SiC(0001) Surface by Steerable Intercalation of Iron. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21484-21492.	3.1	23
39	Synchrotron radiation studies of the growth and beam damage of tin-phthalocyanine on GaAs(001)-1 Å–6 substrates. <i>Applied Surface Science</i> , 2004, 234, 144-148.	6.1	22
40	High-Light-Tolerance Pbl ₂ Boosting the Stability and Efficiency of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24692-24701.	8.0	21
41	Identifying the convergent reaction path from pre-designed assembled structures: Dissymmetrical dehalogenation of Br ₂ Py on Ag(111). <i>Nano Research</i> , 0, , 1.	10.4	20
42	Ullmann coupling of 2,7-dibromopyrene on Au(111) assisted by surface adatoms. <i>Applied Surface Science</i> , 2020, 513, 145797.	6.1	19
43	Electronic properties of interfaces between perylene derivatives and GaAs(001) surfaces. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2679-S2692.	1.8	18
44	A complementary metal-oxide-semiconductor compatible monocantilever 12-point probe for conductivity measurements on the nanoscale. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	18
45	Valley Splitting in a Silicon Quantum Device Platform. <i>Nano Letters</i> , 2014, 14, 1515-1519.	9.1	18
46	Mechanistic Understanding of Size-Dependent Oxygen Reduction Activity and Selectivity over Pt/CNT Nanocatalysts. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3210-3217.	2.0	18
47	Excitation of Coherent Phonons in the One-Dimensional Bi(114) Surface. <i>Physical Review Letters</i> , 2013, 110, 136806.	7.8	17
48	Disentangling phonon and impurity interactions in $\hat{\Gamma}$ -doped Si(001). <i>Applied Physics Letters</i> , 2014, 104, 173108.	3.3	16
49	Surface-sensitive conductance measurements on clean and stepped semiconductor surfaces: Numerical simulations of four point probe measurements. <i>Surface Science</i> , 2008, 602, 1742-1749.	1.9	15
50	Chiral Self-Assembly of Nonplanar 10,10-Dibromo-9,9-bianthryl Molecules on Ag(111). <i>Langmuir</i> , 2017, 33, 2993-2999.	3.5	15
51	Strong-coupling charge density wave in a one-dimensional topological metal. <i>Physical Review B</i> , 2019, 99, .	3.2	15
52	The sub-band structure of atomically sharp dopant profiles in silicon. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	15
53	The structure of Sb(111) determined by photoelectron diffraction. <i>Surface Science</i> , 2007, 601, 2908-2911.	1.9	14
54	Thermal switching of the electrical conductivity of Si(111)/Ag due to a surface phase transition. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 176008.	1.8	13

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55	Observation and origin of the $\hat{\Gamma}$ manifold in Si:P $\hat{\Gamma}$ layers. <i>Physical Review B</i> , 2020, 101, .	3.2	13
56	A matrix approach to resolution enhancement of XPS spectra by a modified maximum entropy method. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2006, 152, 37-43.	1.7	12
57	Hole doping of graphene supported on Ir(111) by AlBr ₃ . <i>Applied Physics Letters</i> , 2013, 102, 061601.	3.3	12
58	One-dimensional spin texture of Bi(441): Quantum spin Hall properties without a topological insulator. <i>Physical Review B</i> , 2015, 91, .	3.2	12
59	Photoelectron spectroscopy study of the electronic structures at CoPc/Bi(111) interface. <i>Surface Science</i> , 2017, 661, 34-41.	1.9	12
60	Probing dimensionality using a simplified 4-probe method. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 394008.	1.8	12
61	Epitaxial Growth of Free-Standing Bismuth Film on Graphene Embedded with Nontrivial Properties. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1817-1824.	4.3	12
62	Determining the Electronic Confinement of a Subsurface Metallic State. <i>ACS Nano</i> , 2014, 8, 10223-10228.	14.6	11
63	Graphene coatings for chemotherapy: avoiding silver-mediated degradation. <i>2D Materials</i> , 2015, 2, 025004.	4.4	11
64	Hierarchically Manipulated Charge Recombination for Mitigating Energy Loss in CsPbI ₂ Br Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41596-41604.	8.0	11
65	Phonon-mediated superconductivity in doped monolayer materials. <i>Physical Review B</i> , 2020, 101, .	3.2	11
66	An XPS study of the interaction between tin(II) phthalocyanine and polycrystalline iron. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 141, 67-72.	1.7	10
67	Structural Transformation of 2,7-Dibromopyrene on Au(111) Mediated by Halogen-Bonding Motifs. <i>ChemPhysChem</i> , 2019, 20, 2376-2381.	2.1	10
68	Controlling the growth of epitaxial graphene on metalized diamond (111) surface. <i>Applied Physics Letters</i> , 2015, 107, 181603.	3.3	9
69	XAFS and SRGI-XRD studies of the local structure of tellurium corrosion of Ni-18%Cr alloy. <i>Nuclear Science and Techniques/Hewuli</i> , 2019, 30, 1.	3.4	9
70	Interaction of the Cation and Vacancy in Hybrid Perovskites Induced by Light Illumination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42369-42377.	8.0	9
71	Initiating Ullmann-like coupling of Br ₂ Py by a semimetal surface. <i>Scientific Reports</i> , 2021, 11, 3414.	3.3	9
72	The layer-by-layer stoichiometry of La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ thin films and interfaces. <i>Surface and Interface Analysis</i> , 2013, 45, 1144-1147.	1.8	8

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73	Emerging Characterizing Techniques in the Fine Structure Observation of Metal Halide Perovskite Crystal. <i>Crystals</i> , 2018, 8, 232.	2.2	8
74	Electronic and structural properties of the natural dyes curcumin, bixin and indigo. <i>RSC Advances</i> , 2021, 11, 14169-14177.	3.6	8
75	Enhanced dissociation activation of CO ₂ on the Bi/Cu(1 1 1) interface by the synergistic effect. <i>Journal of Catalysis</i> , 2022, 410, 1-9.	6.2	8
76	Suppression of the Ag/Si surface conductivity transition temperature by organic adsorbates. <i>Applied Physics Letters</i> , 2011, 98, 052106.	3.3	7
77	Performance Improvement of CH ₃ NH ₃ PbI ₃ Perovskite Solar Cell by CH ₃ SH Doping. <i>Nanomaterials and Nanotechnology</i> , 2016, 6, 24.	3.0	7
78	<i>In Situ</i> Patterning of Ultrasharp Dopant Profiles in Silicon. <i>ACS Nano</i> , 2017, 11, 1683-1688.	14.6	7
79	Simultaneous Conduction and Valence Band Quantization in Ultrashallow High-Density Doping Profiles in Semiconductors. <i>Physical Review Letters</i> , 2018, 120, 046403.	7.8	7
80	Soft x-ray photoelectron spectroscopy of tin-phthalocyanine/GaAs(001)-1 Å–6 interface formation. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2741-S2748.	1.8	6
81	Adsorbate-Induced Modification of the Confining Barriers in a Quantum Box Array. <i>ACS Nano</i> , 2018, 12, 768-778.	14.6	6
82	Recent Progress with In Situ Characterization of Interfacial Structures under a Solid-Gas Atmosphere by HP-STM and AP-XPS. <i>Materials</i> , 2019, 12, 3674.	2.9	6
83	Low-Temperature Growth of Graphene on a Semiconductor. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4243-4252.	3.1	6
84	Resonant photoemission spectroscopy for intermediate band materials. <i>Applied Physics Letters</i> , 2015, 107, 192104.	3.3	5
85	Degradation of the chemotherapy drug 5-fluorouracil on medical-grade silver surfaces. <i>Applied Surface Science</i> , 2018, 435, 1213-1219.	6.1	5
86	Phonon-induced linewidths of graphene electronic states. <i>Physical Review B</i> , 2018, 98, .	3.2	5
87	Microstructure Evolution of a Co/MnO Catalyst for Fischer-Tropsch Synthesis Revealed by <i>In Situ</i> XAFS Studies. <i>ChemCatChem</i> , 2019, 11, 2187-2194.	3.7	5
88	A wavelength-dispersive X-ray spectrometer for in/ex situ resonant inelastic X-ray scattering studies. <i>X-Ray Spectrometry</i> , 2020, 49, 251-259.	1.4	5
89	The occupied electronic structure of ultrathin boron doped diamond. <i>Nanoscale Advances</i> , 2020, 2, 1358-1364.	4.6	5
90	Extracting the near surface stoichiometry of BiFe _{0.5} Mn _{0.5} O ₃ thin films; a finite element maximum entropy approach. <i>Surface Science</i> , 2012, 606, 1771-1776.	1.9	4

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91	Tautomerization of Thymine Using Ultraviolet Light. Langmuir, 2017, 33, 9666-9672.	3.5	4
92	Design of wide-range energy material beamline at the Shanghai Synchrotron Radiation Facility. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	4
93	Electron-magnon coupling and quasiparticle lifetimes on the surface of a topological insulator. Physical Review B, 2021, 104, .	3.2	4
94	Exploring the CO ₂ reduction reaction mechanism on Pt/TiO ₂ with the ambient-pressure X-ray photoelectron spectroscopy. Applied Surface Science, 2021, 568, 150933.	6.1	4
95	Interfacial Nucleation Seeding for Electroluminescent Manipulation in Blue Perovskite Light-Emitting Diodes (Adv. Funct. Mater. 45/2021). Advanced Functional Materials, 2021, 31, 2170331.	14.9	4
96	Thermal migration of alloying agents in aluminium. Materials Research Express, 2016, 3, 116501.	1.6	3
97	Revealing the Adsorption and Decomposition of EP-PTCDI on a Cerium Oxide Surface. ACS Omega, 2019, 4, 17939-17946.	3.5	3
98	Direct Synthesis of Semimetal Phthalocyanines on a Surface with Insights into Interfacial Properties. Journal of Physical Chemistry C, 2020, 124, 8247-8256.	3.1	3
99	Symmetrical dehalogenation of 2, 7-dibromopyrene on Cu(1 1 1) with tunable intermediates and reaction paths. Applied Surface Science, 2021, 566, 150663.	6.1	3
100	Initial growth behavior of bismuth on Ag(111) and Au(111). Wuli Xuebao/Acta Physica Sinica, 2022, 71, 026101.	0.5	3
101	Diamond (111) surface reconstruction and epitaxial graphene interface. Physical Review B, 2022, 105, .	3.2	3
102	Publisher's Note: Kinks in the $\frac{1}{2}$ Band of Graphene Induced by Electron-Phonon Coupling [Phys. Rev. Lett. 111, 216806 (2013)]. Physical Review Letters, 2013, 111, .	7.8	2
103	Robust p-type doping of copper oxide using nitrogen implantation. Materials Research Express, 2017, 4, 075905.	1.6	2
104	Accelerated ageing of molybdenum oxide. Materials Research Express, 2017, 4, 115502.	1.6	2
105	Exploring the Adsorption Mechanism of Tetracene on Ag(110) by STM and Dispersion-Corrected DFT. Crystals, 2020, 10, 13.	2.2	2
106	Avoiding degradation of chemotherapy drugs: is graphene the answer?. Nanomedicine, 2015, 10, 3307-3310.	3.3	1
107	Unveiling orbital coupling at the CoPc/Bi(111) surface by ab initio calculations and photoemission spectroscopy. RSC Advances, 2017, 7, 52143-52150.	3.6	1
108	In Situ Investigations of Structures Evolution of Mg Doped Zn ₄ Sb ₃ . Key Engineering Materials, 0, 727, 178-184.	0.4	0

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109	A Simplified Method for Patterning Graphene on Dielectric Layers. ACS Applied Materials & Interfaces, 2021, 13, 37510-37516.	8.0	0