

John Joyce

List of Publications by Year in descending order

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70
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2,839
citations

126907
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70
docs citations

70
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative analysis of synchrotron radiation photoemission core level data. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1989, 49, 31-45.	1.7	147
2	Electronic structure of $\hat{t}\pm$ - and \hat{t} -Pu from photoelectron spectroscopy. <i>Physical Review B</i> , 2000, 62, 1773-1779.	3.2	132
3	Temperature-invariant photoelectron spectra in cerium heavy-fermion compounds: Inconsistencies with the Kondo model. <i>Physical Review Letters</i> , 1992, 68, 236-239.	7.8	126
4	Fermi-surface topology of $\text{YBa}_2\text{Cu}_3\text{O}_x$ with varied oxygen stoichiometry: A photoemission study. <i>Physical Review B</i> , 1992, 46, 11056-11068.	3.2	122
5	Effect of spin-orbit coupling on the actinide dioxides AnO_2 ($\text{An}=\text{Th, Pa, U, Np, Pu, and Am}$): A screened hybrid density functional study. <i>Journal of Chemical Physics</i> , 2012, 137, 154707.	3.0	108
6	Interdiffusion and reaction at the Fe/GaAs(110) interface. <i>Physical Review B</i> , 1986, 33, 7029-7035.	3.2	100
7	Reexamination of the Electronic Structure of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ and $\text{Bi}_2\text{Sr}_2\text{Cu}_1\text{O}_{6+\delta}$: Electronlike Portions of the Fermi Surface and Depletion of Spectral Weight near M^+ . <i>Physical Review Letters</i> , 1999, 83, 3717-3720.	7.8	99
8	Electronic structure near EF in $\text{YBa}_2\text{Cu}_3\text{O}_x$ for $6.35 \leq x \leq 6.9$: A photoemission study. <i>Physical Review B</i> , 1992, 45, 5614-5621.	3.2	94
9	Photoemission and the Electronic Structure of PuCoGa_5 . <i>Physical Review Letters</i> , 2003, 91, 176401.	7.8	94
10	Epitaxy, overlayer growth, and surface segregation for Co/GaAs(110) and Co/GaAs(100)-c(82). <i>Physical Review B</i> , 1987, 35, 2375-2384.	3.2	89
11	Cluster-Induced Reactions at a Metal-Semiconductor Interface: Ce on Si(111). <i>Physical Review Letters</i> , 1984, 53, 2331-2334.	7.8	77
12	High-resolution photoemission study of Co/Si(111) interface formation. <i>Physical Review B</i> , 1987, 35, 4216-4220.	3.2	77
13	Photoemission of surface oxides and hydrides of delta plutonium. <i>Surface Science</i> , 2004, 571, 74-82.	1.9	76
14	Evidence for possible 4f bands at $T \approx 100$ K in the heavy-fermion single crystal CePt_2+x . <i>Physical Review B</i> , 1995, 51, 3277-3280.	3.2	74
15	A novel electronic configuration of the 5f states in \hat{t} -plutonium as revealed by the photo-electron spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 135, 163-166.	1.7	74
16	Photoelectron spectroscopy of strongly correlated Yb compounds. <i>Physical Review B</i> , 1996, 54, 17515-17535.	3.2	67
17	Dispersion in the Mott insulator UO_2 : A comparison of photoemission spectroscopy and screened hybrid density functional theory. <i>Journal of Computational Chemistry</i> , 2008, 29, 2288-2294.	3.3	65
18	Imaging the Three-Dimensional Fermi-Surface Pairing near the Hidden-Order Transition in CePt_2+x . <i>Physical Review Letters</i> , 2013, 111, 127002.	7.8	64

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19	Momentum-dependent effects in 4fphotoemission spectra from strongly correlatedCeBe13. Physical Review B, 1996, 53, 3317-3326.	3.2	59
20	Silicide formation at the Ti/Si(111) interface: Room-temperature reaction and Schottky-barrier formation. Physical Review B, 1987, 35, 6213-6221.	3.2	55
21	Temperature-invariant valence-band 4fphotoemission features in the heavy-fermion compoundYbAl3. Physical Review B, 1993, 48, 9497-9507.	3.2	54
22	Controlling Oxidation States in Uranium Oxides through Epitaxial Stabilization. Advanced Materials, 2007, 19, 3559-3563.	21.0	53
23	Modeling a heterogeneous metal/semiconductor interface: Ce on Si(111). Physical Review B, 1984, 30, 7370-7373.	3.2	49
24	Growth morphology and electronic structure of the Bi/GaAs(110) interface. Physical Review B, 1989, 40, 10412-10419.	3.2	44
25	Critical development stages for the reactive Cr-GaAs(110) interface. Physical Review B, 1985, 31, 5348-5354.	3.2	43
26	Strongly correlated electron systems: Photoemission and the single-impurity model. Physical Review B, 1997, 56, R7041-R7044.	3.2	42
27	Reactions at a rare-earth-GaAs interface: Ce/GaAs(110). Physical Review B, 1985, 31, 5290-5296.	3.2	41
28	Adatom aggregation, reaction, and chemical trapping at the Sm/GaAs(110) interface. Physical Review B, 1985, 32, 962-968.	3.2	40
29	Core-level binding-energy shifts, thermodynamic predictions, and morphologies for metal-Si and metal-Ge interfaces. Physical Review B, 1987, 36, 4761-4768.	3.2	39
30	Disruption, segregation, and passivation for Pd and noble-metal overlayers on YBa ₂ Cu ₃ O _{6.9} . Physical Review B, 1988, 38, 232-239.	3.2	39
31	Photoemission spectra ofCeAl3,CeBe13,CeSi2, andCeCu2Si2: Weights and widths of the 4femission features. Physical Review B, 1993, 47, 15460-15471.	3.2	36
32	Thermal work function shifts for polycrystalline metal surfaces. Surface Science, 2001, 478, 72-82.	1.9	36
33	Photoemission study of the development of the Ti/GaAs(110) interface. Physical Review B, 1986, 33, 2191-2197.	3.2	33
34	Asymmetries in atomic intermixing at Au/Ge and Ge/Au interfaces. Physical Review B, 1986, 34, 5118-5124.	3.2	30
35	Joyce and Arko reply. Physical Review Letters, 1993, 70, 1181-1182.	7.8	30
36	Direct Observation of Itinerant Magnetism in the5f-Electron System UTe. Physical Review Letters, 2004, 93, 267205.	7.8	29

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37	Photoemission and the lack of a Kondo scale. <i>Physical Review Letters</i> , 1994, 72, 1774-1774.	7.8	28	
38	Cluster formation and atomic intermixing at the reactive V/Ge(111) interface. <i>Physical Review B</i> , 1985, 32, 5149-5155.	3.2	26	
39	Bulk electronic structure of YblnCu4 from photoemission: A unique test of the single impurity model. <i>Physical Review B</i> , 2000, 62, 16492-16499.	3.2	23	
40	4f photoemission from Ce clusters and disordered reaction products at Ce/Si and Ce/GaAs interfaces. <i>Physical Review B</i> , 1985, 31, 8291-8294.	3.2	21	
41	Observation of a kink in the dispersion of f-electrons. <i>Europhysics Letters</i> , 2008, 84, 37003.	2.0	21	
42	The 5f band structure of antiferromagnetic USb ₂ from angle-resolved photoemission spectroscopy: Application to heavy fermions. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997, 75, 603-610.	0.6	20	
43	Chemical bonding in ordered Ce overlayers on Si(111). <i>Physical Review B</i> , 1987, 36, 1075-1079.	3.2	19	
44	Modeling homogeneous and heterogeneous metal/semiconductor interface reactions with photoemission and angle-resolved auger spectroscopy. <i>Surface Science</i> , 1986, 168, 309-322.	1.9	18	
45	A comparison of hybrid density functional theory with photoemission of surface oxides of $\hat{\gamma}$ -plutonium. <i>Surface Science</i> , 2006, 600, 1637-1640.	1.9	17	
46	Synchrotron-radiation photoemission studies of interface formation between metals and superconductors: Al and In on YBa ₂ Cu ₃ O _{6.9} . <i>Physical Review B</i> , 1988, 37, 3741-3744.	3.2	15	
47	Photoemission in YbCu ₂ Si ₂ : problems with the Kondo impurity model. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 108, 215-216.	2.3	15	
48	A tunable bench top light source for photoelectron spectroscopy: first results for alpha and delta Pu. <i>Journal of Alloys and Compounds</i> , 1999, 286, 14-19.	5.5	15	
49	Preparation of Epitaxial Uranium Dicarbide Thin Films by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2013, 25, 4373-4377.	6.7	15	
50	Crystal fields, linewidths and temperature dependence in the photoelectron spectra of heavy fermion Ce and Yb compounds. <i>Solid State Communications</i> , 1992, 83, 551-554.	1.9	14	
51	Intrinsic Photoemission Spectra for YbB ₁₂ . <i>Physical Review Letters</i> , 1997, 78, 1831-1831.	7.8	13	
52	Electronic structure of single crystal UPd ₃ , UGe ₂ , and USb ₂ from hard X-ray and angle-resolved photoelectron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 517-524.	1.7	13	
53	Photoemission and the electronic properties of heavy fermions – limitations of the Kondo model. <i>Physica B: Condensed Matter</i> , 1995, 205, 365-370.	2.7	12	
54	Comment on "Evidence of a Kondo scale from the temperature dependence of inverse photoemission spectroscopy of CePd ₃ ". <i>Physical Review Letters</i> , 1992, 69, 3418-3418.	7.8	11	

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55	Comparative study of the formation of Cr/Ge and Ge/Cr thin-film interfaces. <i>Physical Review B</i> , 1986, 33, 8039-8047.	3.2	9
56	Photoemission and electronic structure studies of YBa ₂ Cu ₃ O _x . <i>Journal of Physics and Chemistry of Solids</i> , 1991, 52, 1437-1445.	4.0	9
57	Electronic structure of layered uranium compounds from photoemission spectroscopy. <i>Surface Science</i> , 2006, 600, 1632-1636.	1.9	9
58	CeSi ₂ Photoemission Spectra at 5 meV Resolution. <i>Physical Review Letters</i> , 1998, 81, 1348-1348.	7.8	8
59	Chemical trapping and modification of the Au/GaAs(110) interface using Sm interlayers. <i>Physical Review B</i> , 1987, 36, 1605-1611.	3.2	7
60	Electronic structure studies of YBa ₂ Cu ₃ O _x (6.2 Å—6.9) using angle-resolved photoemission. <i>Surface Science Reports</i> , 1993, 19, 121-142.	7.2	7
61	Valence-band photoemission and Auger-line-shape study of Au _x Pd _{1-x} . <i>Physical Review B</i> , 1994, 49, 16149-16155.	3.2	7
62	The electronic structure of La _{0.66} Ca _{0.33} MnO ₃ and La _{1.2} Sr _{1.8} Mn ₂ O ₇ studied by angle resolved photoemission. <i>Journal of Applied Physics</i> , 2000, 88, 786-789.	2.5	7
63	He discharge lamp for photoemission experiments with radioactive materials. <i>Review of Scientific Instruments</i> , 2002, 73, 3750-3753.	1.3	6
64	Notes on the Dual Nature of 5f Electrons. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 39-40.	1.6	6
65	Surface energy calculation “metals with 1 and 2 delocalized electrons per atom. <i>Chemical Physics</i> , 2002, 278, 111-117.	1.9	5
66	Inconsistencies with the single-impurity Anderson model in photoelectron spectra of cerium heavy fermion compounds. <i>Journal of Alloys and Compounds</i> , 1992, 181, 161-169.	5.5	3
67	Photoemission and x-ray studies of metal hydrides and hydride formation at metal/hydride interfaces. <i>Solid State Communications</i> , 1985, 55, 1089-1091.	1.9	1
68	Soft-x-ray photoemission study of Cr-Ge intermixing on crystalline and amorphous Ge surfaces. <i>Physical Review B</i> , 1986, 34, 4010-4016.	3.2	1
69	Localized and Itinerant States in Pu Materials. <i>Materials Research Society Symposia Proceedings</i> , 2005, 893, 1.	0.1	1
70	Band-bending model for the ideal Bi/InP(110) interface. <i>Physical Review B</i> , 1992, 46, 12818-12821.	3.2	0