

# Jonathan D Denlinger

## List of Publications by Year in descending order

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108  
papers

5,716  
citations

101543

36  
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74163

75  
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111  
all docs

111  
docs citations

111  
times ranked

8632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of tunable band gap and anisotropic Dirac semimetal state in black phosphorus. <i>Science</i> , 2015, 349, 723-726.	12.6	749
2	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe <sub>2</sub> . <i>Nature Physics</i> , 2016, 12, 1105-1110.	16.7	663
3	Crystallographic alignment of high-density gallium nitride nanowire arrays. <i>Nature Materials</i> , 2004, 3, 524-528.	27.5	454
4	Fermi arcs in a doped pseudospin-1/2 Heisenberg antiferromagnet. <i>Science</i> , 2014, 345, 187-190.	12.6	261
5	Observation of a d-wave gap in electron-doped $\text{Sr}_2\text{IrO}_4$ . <i>Nature Physics</i> , 2016, 12, 37-41.	16.7	246
6	Structure and electronic properties of InN and In-rich group III-nitride alloys. <i>Journal Physics D: Applied Physics</i> , 2006, 39, R83-R99.	2.8	229
7	Photoelectron spin-flipping and texture manipulation in a topological insulator. <i>Nature Physics</i> , 2013, 9, 293-298.	16.7	176
8	Prominent Quasiparticle Peak in the Photoemission Spectrum of the Metallic Phase of $\text{V}_2\text{O}_3$ . <i>Physical Review Letters</i> , 2003, 90, 186403.	7.8	143
9	Beyond triplet: Unconventional superconductivity in a spin-3/2 topological semimetal. <i>Science Advances</i> , 2018, 4, eaao4513.	10.3	130
10	Ultrafast Core-Hole-Induced Dynamics in Water Probed by X-Ray Emission Spectroscopy. <i>Physical Review Letters</i> , 2005, 94, 227401.	7.8	117
11	Direct Observation of Complete Fermi Surface, Imperfect Nesting, and Gap Anisotropy in the High-Temperature Incommensurate Charge-Density-Wave Compound $\text{SmTe}_3$ . <i>Physical Review Letters</i> , 1998, 81, 886-889.	7.8	113
12	Soft X-ray Induced Decomposition of Phenylalanine and Tyrosine: A Comparative Study. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4557-4565.	2.5	102
13	Non-Fermi-Liquid Single Particle Line Shape of the Quasi-One-Dimensional Non-CDW Metal $\text{Li}_{0.9}\text{Mo}_6\text{O}_{17}$ : Comparison to the Luttinger Liquid. <i>Physical Review Letters</i> , 1999, 82, 2540-2543.	7.8	93
14	Bulk Band Gaps in Divalent Hexaborides. <i>Physical Review Letters</i> , 2002, 89, 157601.	7.8	90
15	A novel quasi-one-dimensional topological insulator in bismuth iodide $\text{Bi}_2\text{I}_4$ . <i>Nature Materials</i> , 2016, 15, 154-158.	27.5	90
16	Key electronic states in lithium battery materials probed by soft X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 64-74.	1.7	89
17	Realization of a Type-II Nodal-Line Semimetal in $\text{Mg}_3\text{Bi}_2$ . <i>Advanced Science</i> , 2019, 6, 1800897.	11.2	84
18	Solid and liquid spectroscopic analysis (SALSA) – a soft x-ray spectroscopy endstation with a novel flow-through liquid cell. <i>Review of Scientific Instruments</i> , 2009, 80, 123102.	1.3	77

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19	Depth-resolved band gap in Cu(In,Ga)(S,Se) <sub>2</sub> thin films. Applied Physics Letters, 2008, 93, .	3.3	72
20	In Situ Control of Separate Electronic Phases on SrTiO <sub>3</sub> Surfaces by Oxygen Dosing. Advanced Materials, 2016, 28, 7443-7449.	21.0	69
21	Growth kinetics of CaF <sub>2</sub> /Si(111) heteroepitaxy: An x-ray photoelectron diffraction study. Physical Review B, 1995, 51, 5352-5365.	3.2	62
22	Highly mismatched crystalline and amorphous GaN <sub>1-x</sub> As <sub>x</sub> alloys in the whole composition range. Journal of Applied Physics, 2009, 106, .	2.5	61
23	Low Energy Band Structure and Symmetries of UTe <sub>2</sub> Angle-Resolved Photoemission Spectroscopy. Physical Review Letters. 2020. 124. 076401.	7.8	59
24	Soft X-ray Spectroscopy Study of the Electronic Structure of Oxidized and Partially Oxidized Magnetite Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 21994-22001.	3.1	57
25	Orbitally Driven Spin-Singlet Dimerization in Sr <sub>1-x</sub> La <sub>4x</sub> Ru <sub>2</sub> O <sub>10</sub> . Physical Review Letters, 2006, 96, 256402.	7.8	54
26	Photoemission study of (V <sub>1-x</sub> M <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> (M=Cr,Ti). Physical Review B, 2006, 74, .	3.2	53
27	First results from the SpectroMicroscopy Beamline at the Advanced Light Source. Review of Scientific Instruments, 1995, 66, 1342-1345.	1.3	49
28	Probing hydrogen bonding orbitals: resonant inelastic soft X-ray scattering of aqueous NH <sub>3</sub> . Physical Chemistry Chemical Physics, 2015, 17, 27145-27153.	2.8	49
29	Experimental Observation of Hidden Berry Curvature in Inversion-Symmetric Bulk H <sub>2</sub> . Physical Review Letters. 2018. 121. 186401.	7.8	48
30	A setup for extreme-ultraviolet ultrafast angle-resolved photoelectron spectroscopy at 50-kHz repetition rate. Review of Scientific Instruments, 2019, 90, 023105.	1.3	48
31	Holographic atomic images from surface and bulk W(110) photoelectron diffraction data. Physical Review B, 1999, 59, 5857-5870.	3.2	45
32	Spectroscopic evidence for negative electronic compressibility in a quasi-three-dimensional spin-orbit correlated metal. Nature Materials, 2015, 14, 577-582.	27.5	43
33	Termination-dependent surface in-gap states in a potential mixed-valent topological insulator: SmB <sub>6</sub> . Physical Review B, 2014, 90, .	3.2	42
34	Evolution of the Kondo lattice electronic structure above the transport coherence temperature. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23467-23476.	7.1	40
35	Characterization of Protein Immobilization at Silver Surfaces by Near Edge X-ray Absorption Fine Structure Spectroscopy. Langmuir, 2006, 22, 7719-7725.	3.5	39
36	Fermi level stabilization and band edge energies in Cd <sub>x</sub> Zn <sub>1-x</sub> O alloys. Journal of Applied Physics, 2014, 115, .	2.5	37

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37	Sign-tunable anomalous Hall effect induced by two-dimensional symmetry-protected nodal structures in ferromagnetic perovskite thin films. <i>Nature Materials</i> , 2021, 20, 1643-1649.	27.5	36
38	Resonant excitation x-ray fluorescence from C60. <i>Physical Review B</i> , 1995, 52, 10681-10684.	3.2	33
39	Monitoring chemical reactions at a liquid-solids interface: Water on CuIn(S,Se) <sub>2</sub> thin film solar cell absorbers. <i>Journal of Chemical Physics</i> , 2003, 119, 10467-10470.	3.0	33
40	Evidence for a Quasi-One-Dimensional Charge Density Wave in CuTe by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2018, 121, 206402.	7.8	33
41	Spectroscopic Determination of the Atomic $f$ -Electron Symmetry Underlying Hidden Order in $URu_2Si_2$ . <i>Physical Review Letters</i> , 2015, 114, 236401.	7.8	32
42	Electronic Structure of YbB6: Is it a Topological Insulator or Not?. <i>Physical Review Letters</i> , 2016, 116, 116401.	7.8	30
43	Spin-orbit-controlled metal-insulator transition in SrIrO <sub>4</sub> . <i>Nature Physics</i> , 2020, 16, 290-294.	16.7	30
44	Variable growth modes of CaF <sub>2</sub> on Si(111) determined by x-ray photoelectron diffraction. <i>Applied Physics Letters</i> , 1993, 62, 2057-2059.	3.3	29
45	Direct visualization of coexisting channels of interaction in CeSb. <i>Science Advances</i> , 2019, 5, eaat7158.	10.3	29
46	Layer-by-layer resolved core-level shifts in CaF <sub>2</sub> and SrF <sub>2</sub> on Si(111): Theory and experiment. <i>Physical Review B</i> , 1994, 50, 11052-11069.	3.2	27
47	In Situ Strain Tuning of the Dirac Surface States in Bi <sub>2</sub> Se <sub>3</sub> Films. <i>Nano Letters</i> , 2018, 18, 5628-5632.	9.1	27
48	Highly mismatched N-rich GaN <sub>1-x</sub> Sbx films grown by low temperature molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	26
49	Yb valence change in Ce <sub>1-x</sub> Yb <sub>x</sub> CoIn <sub>5</sub> from spectroscopy and bulk properties. <i>Physical Review B</i> , 2013, 88, .	3.2	25
50	Nondestructive depth-resolved spectroscopic investigation of the heavily intermixed In <sub>2</sub> S <sub>3</sub> /Cu(In,Ga)Se <sub>2</sub> interface. <i>Applied Physics Letters</i> , 2010, 96, 184101.	3.3	24
51	Possible electric field induced indirect to direct band gap transition in MoSe <sub>2</sub> . <i>Scientific Reports</i> , 2017, 7, 5206.	3.3	23
52	Anisotropic $c$ - $f$ Hybridization in the Ferromagnetic Quantum Critical Metal $CeRh_6$ . <i>Physical Review Letters</i> , 2021, 126, 216406.	7.8	23
53	X-ray Emission Spectroscopy of Nitrogen-Rich Compounds. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3243-3250.	2.5	20
54	Non-Fermi Liquid Angle Resolved Photoemission Line Shapes of Li <sub>0.9</sub> Mo <sub>6</sub> O <sub>17</sub> . <i>Physical Review Letters</i> , 2000, 85, 3985-3985.	7.8	18

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55	Band Gap Engineering of Oxide Photoelectrodes: Characterization of ZnO $_{1-x}$ Se $_x$ . Journal of Physical Chemistry C, 2012, 116, 15281-15289.	3.1	18
56	Observation of an electron band above the Fermi level in FeTe $_{0.55}$ Se $_{0.45}$ from <i>in-situ</i> surface doping. Applied Physics Letters, 2014, 105, .	3.3	18
57	Magnetic x-ray linear dichroism in the photoelectron spectroscopy of ultrathin magnetic alloy films. Journal of Applied Physics, 1996, 79, 5626.	2.5	17
58	Enhanced superconductivity in surface-electron-doped iron pnictide Ba(Fe $_{1.94}$ Co $_{0.06}$ ) $_2$ As $_2$ . Nature Materials, 2016, 15, 1233-1236.	27.5	17
59	Temperature-Dependent Electron-Electron Interaction in Graphene on SrTiO $_3$ . Nano Letters, 2017, 17, 5914-5918.	9.1	17
60	Correlation-driven electronic reconstruction in FeTe $_{1-x}$ Se $_x$ . Communications Physics, 2022, 5, .	5.3	17
61	Growth and transport properties of p-type GaNBi alloys. Journal of Materials Research, 2011, 26, 2887-2894.	2.6	16
62	Element-Selective Observation of Electronic Structure Transition between Semiconducting and Metallic States in Boron-Doped Diamond Using Soft X-ray Emission and Absorption Spectroscopy. Japanese Journal of Applied Physics, 2005, 44, 6612-6617.	1.5	14
63	Intermixing and chemical structure at the interface between n-GaN and V-based contacts. Applied Physics Letters, 2008, 93, .	3.3	14
64	Emergence of Kondo Resonance in Graphene Intercalated with Cerium. Nano Letters, 2018, 18, 3661-3666.	9.1	14
65	Fermi Surface of Metallic $V_2O_3$ . Angle-Resolved Photoemission: Mid-level Filling of $V_2O_3$ . Physical Review Letters, 2016, 117, 166401.	1.8	11
66	Electronic structure and oxygen bonding in CaSiO $_3$ silicate. Journal of Physics Condensed Matter, 2003, 15, 5523-5533.	1.8	11
67	Lifshitz-Transition-Driven Metal-Insulator Transition in Moderately Spin-Orbit-Coupled Sr $_2$ XLaRhO $_4$ . Physical Review Letters, 2019, 123, 106401.	7.8	11
68	Electron-hole correlation effects in core-level spectroscopy probed by the resonant inelastic soft x-ray scattering map of C60. Journal of Chemical Physics, 2011, 135, 104705.	3.0	10
69	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb $_4$ . Npj Quantum Materials, 2022, 7, .	5.2	10
70	Angle-resolved photoemission spectroscopy study of the M $\bar{1}$ Kondo insulator candidate CeRhSb. Physical Review B, 2019, 100, .	3.2	9
71	Distinct topological properties in Ce monopnictides having correlated $f$ electrons: CeN vs. CeBi. Physical Review Research, 2020, 2, .	3.6	9
72	Characterization of Carbon Films on the Japanese Smoked Roof Tile <i>aburahi-Kawara</i> by High-Resolution Soft X-ray Spectroscopy. Japanese Journal of Applied Physics, 2003, 42, 6551-6555.	1.5	8

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73	Resonant Inelastic X-ray Scattering Spectroscopy at MERLIN Beamline at the Advanced Light Source. Synchrotron Radiation News, 2012, 25, 23-28.	0.8	8
74	Monochromatic Photocathodes from Graphene-Stabilized Diamondoids. Nano Letters, 2018, 18, 1099-1103.	9.1	8
75	Topological surface states on the nonpolar (110) and (111) surfaces of $\text{SmB}_6$ . Physical Review B, 2021, 103, .	3.6	6
76	Atomic-size effects on the growth of $\text{SrF}_2$ and $(\text{Ca,Sr})\text{F}_2$ on Si(111). Physical Review B, 1991, 43, 7335-7338.	3.2	7
77	Electric-field-driven octahedral rotation in perovskite. Npj Quantum Materials, 2021, 6, .	5.2	7
78	Crystalline symmetry-protected non-trivial topology in prototype compound $\text{BaAl}_4$ . Npj Quantum Materials, 2021, 6, .	5.2	7
79	Spectroscopic signature of negative electronic compressibility from the Ti core-level of titanium carbonitride MXene. Applied Physics Reviews, 2021, 8, .	11.3	7
80	Soft X-ray angle-resolved photoemission with micro-positioning techniques for metallic $\text{V}_2\text{O}_3$ . Journal of Synchrotron Radiation, 2015, 22, 776-780.	2.4	6
81	Effects of native defects on properties of low temperature grown, non-stoichiometric gallium nitride. Journal Physics D: Applied Physics, 2015, 48, 385101.	2.8	6
82	Electronic-dimensionality reduction of bulk $\text{MoS}_2$ by hydrogen treatment. Physical Chemistry Chemical Physics, 2018, 20, 23007-23012.	2.8	6
83	Correlation-driven electron-hole asymmetry in graphene field effect devices. Npj Quantum Materials, 2022, 7, .	5.2	6
84	Evidence of nested quasi-one-dimensional Fermi surface and decoupled charge-lattice orders in layered $\text{TaTe}_2$ . Physical Review Research, 2022, 4, .	3.6	6
85	Altered photoemission satellites at $\text{CaF}_2$ - and $\text{SrF}_2$ -on-Si(111) interfaces. Physical Review B, 1996, 53, 1584-1593.	3.2	5
86	Adsorption structure analysis of entrapped nitrogen in carbon-nanohorns by soft X-ray emission and absorption spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2010, 181, 186-188.	1.7	5
87	Chemical Analysis of Impurity Boron Atoms in Diamond Using Soft X-Ray Emission Spectroscopy. Analytical Sciences, 2008, 24, 831-834.	1.6	4
88	Chemical State Analysis of Entrapped Nitrogen in Carbon Nanohorns Using Soft X-ray Emission and Absorption Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 6793-6799.	3.1	4
89	Orbital Character Effects in the Photon Energy and Polarization Dependence of Pure $\text{C}_{60}$ Photoemission. ACS Nano, 2019, 13, 12710-12718.	14.6	4
90	Robust Surface States and Coherence Phenomena in Magnetically Alloyed $\text{SmB}_6$ . Physical Review Letters, 2021, 126, 136401.	7.8	4

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91	Global perspectives of the bulk electronic structure of URu <sub>2</sub> Si <sub>2</sub> from angle-resolved photoemission. <i>Electronic Structure</i> , 2022, 4, 013001.	2.8	4
92	Signature of Kondo hybridisation with an orbital-selective Mott phase in 4d Ca <sub>2-x</sub> Sr <sub>x</sub> RuO <sub>4</sub> . <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	4
93	X-ray spectroscopy study on the electronic structure of hole-doped edge-shared chains in Ca <sub>2+x</sub> Y <sub>2-x</sub> Cu <sub>5</sub> O <sub>10</sub> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 148, 65-72.	1.7	3
94	Effect of the sample work function on alkali metal dosing induced electronic structure change. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 249, 147045.	1.7	3
95	Experimental evidence of plasmarons and effective fine structure constant in electron-doped graphene/h-BN heterostructure. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	3
96	Evaluation of carbon films on the Japanese smoked roof tile "bushu-Kawara" by angle-dependent soft X-ray emission spectroscopy using synchrotron radiation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1317-1322.	2.9	2
97	The hybridizations of cobalt 3d bands with the electron band structure of the graphene/cobalt interface on a tungsten substrate. <i>Journal of the Korean Physical Society</i> , 2016, 69, 573-577.	0.7	2
98	Temperature-modulated electronic structure of graphene on SiC: Possible roles of electron-electron interaction and strain. <i>Applied Physics Letters</i> , 2017, 111, 231603.	3.3	2
99	Tunable Kondo Resonance at a Pristine Two-Dimensional Dirac Semimetal on a Kondo Insulator. <i>Nano Letters</i> , 2020, 20, 7973-7979.	9.1	2
100	High-resolution soft X-ray spectral analysis in the C<sub>K</sub> region of titanium carbide using the DV-XPS molecular orbital method. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2722-2727.	2.0	1
101	Site- and Symmetry-Resolved Resonant X-ray Emission Study of a Highly Ordered PTCDA Thin Film. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8607-8615.	3.1	1
102	Soft X-ray synchrotron radiation spectroscopy study of rare-earth chalcogenide charge-density wave compounds. <i>Journal of the Korean Physical Society</i> , 2017, 70, 389-393.	0.7	1
103	Controlling spin-orbit coupling strength of bulk transition metal dichalcogenide semiconductors. <i>Current Applied Physics</i> , 2021, 30, 4-4.	2.4	1
104	Transport anomalies in the layered compound BaPt <sub>4</sub> Se <sub>6</sub> . <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	1
105	Band-selective gap opening by a C <sub>4</sub> -symmetric order in a proximity-coupled heterostructure Sr <sub>2</sub> VO <sub>3</sub> FeAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2105190118.	7.1	1
106	Observation of a Flat and Extended Surface State in a Topological Semimetal. <i>Materials</i> , 2022, 15, 2744.	2.9	1
107	Soft X-Ray Emission Spectral Analysis of Graphite Fluoride (CF) <sub>n</sub> Using the DV-XPS Calculations. <i>Advances in Quantum Chemistry</i> , 2008, 54, 219-226.	0.8	0
108	Digging deeper: Buried layers and interfaces studied by modified total electron yield and soft x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2022, 120, 181601.	3.3	0