John Singleton

List of Publications by Year in descending order

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94 papers	2,498 citations	236925 25 h-index	206112 48 g-index
98 all docs	98 docs citations	98 times ranked	2373 citing authors

#	Article	IF	Citations
1	Evidence for a delocalization quantum phase transition without symmetry breaking in CeCoIn ₅. Science, 2022, 375, 76-81.	12.6	21
2	Pseudogap in elemental plutonium. Physical Review B, 2022, 105, .	3.2	1
3	Pressure-induced shift of effective Ce valence, Fermi energy and phase boundaries in CeOs₄Sb₁₂. New Journal of Physics, 2022, 24, 043044.	2.9	1
4	Magneto-structural Correlations in Ni²⁺â€“HalideÂ·Â·Â·Halideâ€“Ni²⁺ Chains. Inorganic Chemistry, 2022, 61, 141-153.	4.0	2
5	Hall Anomaly, Quantum Oscillations and Possible Lifshitz Transitions in Kondo Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbB</mml:mi></mml:mrow><mml:mrow><mml:mn>12</mml:mn></ : Evidence for Unconventional Charge Transport. Physical Review X, 2022, 12, .	8.9	7
6	Resonant torque differential magnetometry with high frequency quartz oscillators. Review of Scientific Instruments, 2022, 93, .	1.3	0
7	Tracking the evolution from isolated dimers to many-body entanglement in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">NaLu</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Yb</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>x</mml:mi></ mathvariant="normal">Se</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 106, .	3.2	2
8	Composite pressure cell for pulsed magnets. Review of Scientific Instruments, 2021, 92, 023903.	1.3	1
9	Controlling Magnetic Anisotropy in a Zero-Dimensional S = 1 Magnet Using Isotropic Cation Substitution. Journal of the American Chemical Society, 2021, 143, 4633-4638.	13.7	3
10	Observation of cyclotron resonance and measurement of the hole mass in optimally doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn Physical Review B, 2021, 103, .	3.2	11
11	Unusual high-field metal in a Kondo insulator. Nature Physics, 2021, 17, 788-793.	16.7	24
12	Topological surface conduction in Kondo insulator YbB₁₂. Journal Physics D: Applied Physics, 2021, 54, 404002.	2.8	11
13	Evidence for a delocalization quantum phase transition without symmetry breaking in CeCoIn. Science, 2021, , eaaz4566.	12.6	0
14	Non-monotonic pressure dependence of high-field nematicity and magnetism in CeRhIn5. Nature Communications, 2020, 11, 3482.	12.8	9
15	Information Carried by Electromagnetic Radiation Launched from Accelerated Polarization Currents. Physical Review Applied, 2020, 14, .	3.8	1
16	Fermi surface topology and nontrivial Berry phase in the flat-band semimetal Pd3Pb. Physical Review B, 2020, 101, .	3.2	1
17	Cryogenic goniometer for measurements in pulsed magnetic fields fabricated via additive manufacturing technique. Review of Scientific Instruments, 2020, 91, 036102.	1.3	5
18	Unusual phase boundary of the magnetic-field-tuned valence transition in CeOs4Sb12. Physical Review B, 2020, 101, .	3.2	7

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19	Enhancing easy-plane anisotropy in bespoke Ni(II) quantum magnets. Polyhedron, 2020, 180, 114379.	2.2	10
20	Temperature scaling behavior of the linear magnetoresistance observed in high-temperature superconductors. Physical Review Materials, 2020, 4, .	2.4	7
21	Near-ideal molecule-based Haldane spin chain. Physical Review Research, 2020, 2, .	3.6	9
22	Half-magnetization plateau and the origin of threefold symmetry breaking in an electrically switchable triangular antiferromagnet. Physical Review Research, 2020, 2, .	3.6	14
23	Spinâ€“lattice and electronâ€“phonon coupling in 3d/5d hybrid Sr3NiIrO6. Npj Quantum Materials, 2019, 4, .	5.2	6
24	Unconventional thermal metallic state of charge-neutral fermions in an insulator. Nature Physics, 2019, 15, 954-959.	16.7	35
25	Determining the anisotropy and exchange parameters of polycrystalline spin-1 magnets. New Journal of Physics, 2019, 21, 093025.	2.9	7
26	Magnetic field-temperature phase diagram of multiferroic (NH4)2FeCl5Â·H2O. Npj Quantum Materials, 2019, 4, .	5.2	10
27	Magnetoelectric behavior via a spin state transition. Nature Communications, 2019, 10, 4043.	12.8	29
28	Fermi surface, possible unconventional fermions, and unusually robust resistive critical fields in the chiral-structured superconductor AuBe. Physical Review B, 2019, 99, .	3.2	21
29	Enhancement of the effective mass at high magnetic fields in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeRhIn</mml:mi><mml:mn>5</mml:mn></mml:msub> Physical Review B, 2019, 99, .	3.2	15
30	Steplike metamagnetic transitions in a honeycomb lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn> Physical Review Materials, 2019, 3, .	2.4	9
31	Implications of bond disorder in a S=1 kagome lattice. Scientific Reports, 2018, 8, 4745.	3.3	5
32	Frustration and Glasslike Character in RIn_{1â€“x}Mn_xO₃ (R = Tb, Dy, Gd). Inorganic Chemistry, 2018, 57, 12501-12508.	4.0	8
33	Quantum oscillations of electrical resistivity in an insulator. Science, 2018, 362, 65-69.	12.6	79
34	Adiabatic physics of an exchange-coupled spin-dimer system: Magnetocaloric effect, zero-point fluctuations, and possible two-dimensional universal behavior. Physical Review B, 2017, 95, .	3.2	23
35	Magnetic field-temperature phase diagram of multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>[</mml:mo><mml:msub> Physical Review B, 2017, 96, .	3.2	24
36	Combining microscopic and macroscopic probes to untangle the single-ion anisotropy and exchange energies in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> quantum antiferromagnet. Physical Review B, 2017, 95, .	3.2	15

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37	Fermi-surface topologies and low-temperature phases of the filled skutterudite compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CeOs</mml:mi><mml:mn>4</mml:mn></ xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NdOs</mml:mi><mml:mn>4</mml:mn></ Physical Review B, 2016, 94, .	3.2	7
38	Magnetic properties ofSr3NiIrO6andSr3CoIrO6: Magnetic hysteresis with coercive fields of up to 55 T. Physical Review B, 2016, 94, .	3.2	20
39	Control of the third dimension in copper-based square-lattice antiferromagnets. Physical Review B, 2016, 93, .	3.2	18
40	Electric polarization observed in single crystals of multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Lu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:m Physical Review B, 2016, 93, .	3.2	28
41	Antiferromagnetism in a Family of S = 1 Square Lattice Coordination Polymers NiX₂(pyz)₂ (X = Cl, Br, I, NCS; pyz = Pyrazine). Inorganic Chemistry, 2016, 55, 3515-3529.	4.0	23
42	Experimental and Theoretical Electron Density Analysis of Copper Pyrazine Nitrate Quasi-Low-Dimensional Quantum Magnets. Journal of the American Chemical Society, 2016, 138, 2280-2291.	13.7	42
43	Magnetic Ordering-Induced Multiferroic Behavior in [CH₃NH₃][Co(HCOO)₃] Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 1122-1125.	13.7	170
44	Magnetic ground state of the two isostructual polymeric quantum magnets<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>[</mml:mo><mml:mi>Cu</mml:mi><mml:mo>(</mml:mo><mml:msu xmlns:mml="http://www.w3.org/1998/Math/MathML". Physical Review B, 2015, 92, .	3.2	11
45	Magnetic Structure and Exchange Interactions in Quasi-One-Dimensional MnCl₂(urea)₂. Inorganic Chemistry, 2015, 54, 11897-11905.	4.0	20
46	Fermi surface reconstruction and multiple quantum phase transitions in the antiferromagnet CeRhIn ₅. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 673-678.	7.1	67
47	Controlling Magnetic Order and Quantum Disorder in Molecule-Based Magnets. Physical Review Letters, 2014, 112, .	7.8	24
48	Dimensionality Selection in a Molecule-Based Magnet. Physical Review Letters, 2012, 108, 077208.	7.8	45
49	Magnetoelastic coupling in [Ru2(O2CMe)4]3[Cr(CN)6] molecule-based magnet. Physical Review B, 2012, 86, .	3.2	14
50	Importance of HalogenÂ·Â·Â·Halogen Contacts for the Structural and Magnetic Properties of CuX₂(pyrazine-N,Nâ€²-dioxide)(H₂O)₂ (X = Cl and Br). Inorganic Chemistry, 2012, 51, 2121-2129.	4.0	38
51	[Ni(HF₂)(3-Clpy)₄]BF₄ (py = pyridine): Evidence for Spin Exchange Along Strongly Distorted FÂ·Â·Â·HÂ·Â·Â·F^{â€“} Bridges in a One-Dimensional Polymeric Chain. Inorganic Chemistry, 2012, 51, 7520-7528.	4.0	19
52	Measurement of magnetic susceptibility in pulsed magnetic fields using a proximity detector oscillator. Review of Scientific Instruments, 2011, 82, 113902.	1.3	39
53	Structural, Electronic, and Magnetic Properties of Quasi-1D Quantum Magnets [Ni(HF₂)(pyz)₂]X (pyz = pyrazine; X = PF₆^{â€“},) Tj ETQq1 1 0.784314 rgBT /Overl Chemistry, 2011, 50, 5990-6009.	4.0	30
54	Nonmonotonic field dependence of the NÃ©el temperature in the quasi-two-dimensional magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mtext>Cu</mml:mtext></mml:mrow><mml:mo>(Physical Review B, 2009, 79, .	3.2	52

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55	Strong HÂ·Â·Â·F Hydrogen Bonds as Synthons in Polymeric Quantum Magnets: Structural, Magnetic, and Theoretical Characterization of [Cu(HF2)(pyrazine)2]SbF6, [Cu2F(HF)(HF2)(pyrazine)4](SbF6)2, and [CuAg(H3F4)(pyrazine)5](SbF6)2. Journal of the American Chemical Society, 2009, 131, 6733-6747.	13.7	76
56	Fermi-surface topology and field-dependent effective masses of the filled skutterudite compound PrOs4As12. Physica B: Condensed Matter, 2008, 403, 758-760.	2.7	1
57	Experimental and Theoretical Characterization of the Magnetic Properties of CuF₂(H₂O)₂(pyz) (pyz = pyrazine): A Two-Dimensional Quantum Magnet Arising from Supersuperexchange Interactions through Hydrogen Bonded Paths. Chemistry of Materials, 2008, 20, 7408-7416.	6.7	59
58	Experimentally determining the exchange parameters of quasi-two-dimensional Heisenberg magnets. New Journal of Physics, 2008, 10, 083025.	2.9	106
59	A de Haasâ€“van Alphen study of the filled skutterudite compounds PrOs₄As₁₂and LaOs₄As₁₂. New Journal of Physics, 2007, 9, 269-269.	2.9	19
60	Separation of energy scales in the kagome antiferromagnet TmAgGe: A magnetic-field-orientation study up to55T. Physical Review B, 2007, 75, .	3.2	13
61	Angle-dependent magnetoresistance oscillations due to magnetic breakdown orbits. Physical Review B, 2007, 76, .	3.2	18
62	A photonic band-gap resonator to facilitate GHz-frequency conductivity experiments in pulsed magnetic fields. Review of Scientific Instruments, 2006, 77, 084702.	1.3	4
63	Suppression of the Î³â€“Î± structural phase transition in Ce0.8La0.1Th0.1by large magnetic fields. Journal of Physics Condensed Matter, 2005, 17, L77-L83.	1.8	33
64	Angle-dependent magnetoresistance of the layered organic superconductorÎºâˆ’(ET)2Cu(NCS)2:Simulation and experiment. Physical Review B, 2004, 69, .	3.2	58
65	Unconventional quantum fluid at high magnetic fields in the marginal charge-density-wave systemÎ±âˆ’(BEDTâˆ’TTF)2MHg(SCN)4(M=Kand Rb). Physical Review B, 2004, 69, .	3.2	14
66	Experimental observation of nonspherically-decaying radiation from a rotating superluminal source. Journal of Applied Physics, 2004, 96, 4614-4631.	2.5	11
67	de Haasâ€“van Alphen spectra of the shape-memory alloy AuZn. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1681-E1683.	2.3	0
68	The National High Magnetic Field Laboratory Pulsed-Field Facility at Los Alamos National Laboratory. Physica B: Condensed Matter, 2004, 346-347, 614-617.	2.7	47
69	The intrinsically broad superconducting to normal transition in organic superconductors. Synthetic Metals, 2003, 133-134, 241-243.	3.9	2
70	Experimental Electronic Heat Capacities ofÎ±- andÎ´-Plutonium: Heavy-Fermion Physics in an Element. Physical Review Letters, 2003, 91, 205901.	7.8	106
71	RECENT STUDIES OF QUASI-TWO-DIMENSIONAL ORGANIC METALS INVOLVING HIGH MAGNETIC FIELDS. , 2003, , 85-110.		1
72	Test for Interlayer Coherence in a Quasi-Two-Dimensional Superconductor. Physical Review Letters, 2002, 88, 037001.	7.8	84

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73	Quasi-two-dimensional organic superconductors: A review. Contemporary Physics, 2002, 43, 63-96.	1.8	169
74	THE MILLIMETRE-WAVE MAGNETO-OPTICAL RESPONSE OF Sr2RuO4. International Journal of Modern Physics B, 2002, 16, 3238-3243.	2.0	1
75	Superconductivity, incoherence and Anderson localization in the crystalline organic conductor (BEDT-TTF)3Cl2$middot$ 2H2O at high pressures. Journal of Physics Condensed Matter, 2002, 14, 7345-7361.	1.8	9
76	THE MILLIMETRE-WAVE MAGNETO-OPTICAL RESPONSE OF Sr2RuO4. , 2002, , .		0
77	Synthesis, structural chemistry and magnetic properties of La1 + xA1 â^' xInMnO6 â^' Î´: A = Ba, Sr; x = 0, 0.2. Journal of Materials Chemistry, 2001, 11, 1656-1661.	6.7	1
78	Unconventional field and angle dependences of the Shubnikov-de Haas oscillations spectra in the quasi two-dimensional organic superconductor (BEDO-TTF) 2ReO 4H 2O. European Physical Journal B, 2001, 21, 31-37.	1.5	6
79	Superconducting properties and Fermi-surface topology of the quasi-two-dimensional organic superconductor Î»-(BETS)2GaCl4(BETSâ‰¡bis(ethylene-dithio)tetraselenafulvalene). Journal of Physics Condensed Matter, 2001, 13, 8325-8345.	1.8	64
80	On the de Haas-van Alphen effect in inhomogeneous alloys. Journal of Physics Condensed Matter, 2001, 13, L463-L467.	1.8	11
81	A statistical model for the intrinsically broad superconducting-to-normal transition in quasi-two-dimensional crystalline organic metals. Journal of Physics Condensed Matter, 2001, 13, L899-L904.	1.8	7
82	Halides of BET-TTF: Novel Hydrated Molecular Metals. Advanced Materials, 2000, 12, 54-58.	21.0	9
83	A New Organic Conductor and a Novel Structural Phase Transition in the BEDT-TTF Trihalide Family. Advanced Materials, 2000, 12, 1205-1210.	21.0	17
84	Studies of quasi-two-dimensional organic conductors based on BEDT-TTF using high magnetic fields. Reports on Progress in Physics, 2000, 63, 1111-1207.	20.1	273
85	Millimeter-Wave Magneto-optical Determination of the Anisotropy of the Superconducting Order Parameter in the Molecular Superconductorî°-(BEDTâ^'TTF)2Cu(NCS)2. Physical Review Letters, 1999, 83, 3041-3044.	7.8	60
86	Shubnikovâ€“de Haas effect and persistent photoconductivity in In0.52Al0.48As. Journal of Applied Physics, 1999, 86, 6593-6595.	2.5	3
87	Chemistry of naturally layered manganites (invited). Journal of Applied Physics, 1998, 83, 6379-6384.	2.5	20
88	Crystal Chemistry and Electronic Properties of the N = 2 Ruddlesden-Popper Manganates: Unconventional CMR Materials. Materials Research Society Symposia Proceedings, 1996, 453, 331.	0.1	5
89	Quantized Hall Currents in the High Field Phase ofÎ±â^'(BEDTâ^'TTF)2TlHg(SCN)4. Physical Review Letters, 1996, 77, 1576-1579.	7.8	39
90	High Field Magnetotransport of the Pressure Induced Organic Superconductor (BEDT-TTF)3Cl22H2O. Acta Physica Polonica A, 1995, 87, 777-779.	0.5	0

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91	De HAAS-VAN alphen effect in the vortex state of the organic superconductor /spl kappa/-(BEDT-TTF)/sub 2/Cu(NCS)/sub 2/. , 1994, , .		0
92	High pressure studies of the relationship between carrier effective mass and superconducting critical temperature in k-(BEDT-TTF)/sub 2/Co(NCS)/sub 2/. , 1994, , .		0
93	Collapse of High Field Magnetophonon Resonance in GaAs-GaAlAs Heterojunctions. Physical Review Letters, 1994, 73, 589-592.	7.8	23
94	Quantum transport in accumulation layers on Cd0.2Hg0.8Te. Journal of Physics C: Solid State Physics, 1986, 19, 35-42.	1.5	20