David V Baxter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8527544/publications.pdf

Version: 2024-02-01

102 papers	2,345 citations	236925 25 h-index	223800 46 g-index
105 all docs	105 docs citations	105 times ranked	2769 citing authors

#	Article	IF	Citations
1	Neutron-state entanglement with overlapping paths. Physical Review Research, 2021, 3, .	3.6	8
2	New high-sensitivity searches for neutrons converting into antineutrons and/or sterile neutrons at the HIBEAM/NNBAR experiment at the European Spallation Source. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 070501.	3.6	33
3	Compact ultracold neutron source concept for low-energy accelerator-driven neutron sources. European Physical Journal Plus, 2021, 136, 1.	2.6	2
4	Unveiling contextual realities by microscopically entangling a neutron. Nature Communications, 2020, 11, 930.	12.8	22
5	Operator analysis of contextuality-witness measurements for multimode-entangled single-neutron interferometry. Physical Review A, 2020, 101, .	2.5	10
6	Neutron instrumentation research at the Low Energy Neutron Source. Neutron News, 2020, 31, 44-47.	0.2	1
7	Activities of an IAEA Coordinated Research Project on Advanced Cold Moderators. Neutron News, 2019, 30, 19-22.	0.2	0
8	An efficient and cost-effective microchannel plate detector for slow neutron radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 891, 53-57.	1.6	4
9	Characterization of a Liquid Ammonia Moderator. Journal of Physics: Conference Series, 2018, 1021, 012067.	0.4	1
10	High resolution neutron Larmor diffraction using superconducting magnetic Wollaston prisms. Scientific Reports, 2017, 7, 865.	3.3	14
11	Magnetic field optimization and design of a superconducting neutron Wollaston prism. Journal of Physics: Conference Series, 2016, 711, 012015.	0.4	7
12	Compact spherical neutron polarimeter using high-Tc YBCO films. Review of Scientific Instruments, 2016, 87, 033901.	1.3	7
13	Materials and neutronic research at the Low Energy Neutron Source. European Physical Journal Plus, 2016, 131, 1.	2.6	7
14	Demonstration of a single-crystal reflector-filter for enhancing slow neutron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 454-460.	1.6	4
15	Spin echo modulated small-angle neutron scattering using superconducting magnetic Wollaston prisms. Journal of Applied Crystallography, 2016, 49, 55-63.	4.5	26
16	Introducing single-crystal scattering and optical potentials into MCNPX: Predicting neutron emission from a convoluted moderator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 814, 39-49.	1.6	3
17	Neutron-antineutron oscillations: Theoretical status and experimental prospects. Physics Reports, 2016, 612, 1-45.	25.6	138
18	Spin echo small angle neutron scattering using a continuously pumped 3He neutron polarisation analyser. Review of Scientific Instruments, 2015, 86, 023902.	1.3	23

#	Article	IF	Citations
19	A New Cold Neutron Imaging Instrument at NIST. Physics Procedia, 2015, 69, 48-54.	1.2	38
20	LENS: 2013 Facility Overview. Physics Procedia, 2014, 60, 175-180.	1.2	1
21	Superconducting magnetic Wollaston prism for neutron spin encoding. Review of Scientific Instruments, 2014, 85, 053303.	1.3	27
22	Enhancing neutron beam production with a convoluted moderator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 762, 31-41.	1.6	13
23	Neutron spin manipulation devices using YBCO films. Journal of Physics: Conference Series, 2014, 528, 012024.	0.4	6
24	Performance of a polarised neutron cryo-flipper using a high TcYBCO film. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 722, 20-23.	1.6	13
25	Design of a Cryogen Free Cryo-flipper using a High T YBCO Film. Physics Procedia, 2013, 42, 125-129.	1.2	14
26	Neutron Moderator Development Research at the Low Energy Neutron Source. Physics Procedia, 2012, 26, 117-123.	1.2	9
27	Moderators at LENS: Performance and Development Research. Physics Procedia, 2012, 26, 153-160.	1.2	10
28	LENS Operating Experience. Physics Procedia, 2012, 26, 161-167.	1.2	9
29	Magnetic Virus-like Nanoparticles in N. benthamiana Plants: A New Paradigm for Environmental and Agronomic Biotechnological Research. ACS Nano, 2011, 5, 4037-4045.	14.6	84
30	A measurement of the change of the energy dependence of the total cross-section of phase II solid methane from confinement in aerogel glass. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 425-430.	1.4	0
31	In-situ Polarized³He-Based Neutron Polarization Analyzer for SNS Magnetism Reflectometer. Journal of Physics: Conference Series, 2010, 251, 012086.	0.4	5
32	Measurements of the neutron brightness from a phase II solid methane moderator at the LENS neutron source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 375-381.	1.6	8
33	Microscopic model for the neutron dynamic structure factor of solid methane in phase II. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 382-390.	1.6	10
34	Magnetic nanoparticles with functional silanes: evolution of well-defined shells from anhydride containing silane. Journal of Materials Chemistry, 2009, 19, 4231.	6.7	53
35	Hydrophilic Monodisperse Magnetic Nanoparticles Protected by an Amphiphilic Alternating Copolymer. Journal of Physical Chemistry C, 2008, 112, 16809-16817.	3.1	59
36	Mixed Co/Fe Oxide Nanoparticles in Block Copolymer Micelles. Langmuir, 2008, 24, 12618-12626.	3.5	17

#	Article	IF	Citations
37	Upgrade of the LENS Proton LINAC: Commissioning and results. , 2007, , .		2
38	Uniform beam intensity redistribution in the LENS nonlinear transport line. , 2007, , .		5
39	Structure and Properties of Iron Oxide Nanoparticles Encapsulated by Phospholipids with Poly(ethylene glycol) Tails. Journal of Physical Chemistry C, 2007, 111, 18078-18086.	3.1	70
40	Self-Assembled Virus-like Particles with Magnetic Cores. Nano Letters, 2007, 7, 2407-2416.	9.1	164
41	The Neutron Radiation Effects Program (NREP) at Indiana University Cyclotron Facility. , 2006, , .		2
42	Ferromagnetic resonance investigations on Ga0.965Mn0.035As film. Journal of Applied Physics, 2006, 99, 113908.	2.5	2
43	Study of ferromagnetismâ€“superconductivity interactions in Co/Nb multilayers. Journal of Magnetism and Magnetic Materials, 2006, 304, e97-e99.	2.3	5
44	LENSâ€”a pulsed neutron source for education and research. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 28-31.	1.6	7
45	Status of the low energy neutron source at Indiana University. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 209-212.	1.4	45
46	Magnetic investigations of titanium-doped gamma iron oxides dispersed in polymers. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3432-3437.	2.1	8
47	LENS: A new pulsed neutron source for research and education. Journal of Research of the National Institute of Standards and Technology, 2005, 110, 153.	1.2	2
48	High-temperature Hall effect inGa1â^'xMnxAs. Physical Review B, 2004, 69, .	3.2	33
49	A University Based Cold Neutron Source. AIP Conference Proceedings, 2003, , .	0.4	1
50	Anisotropic magnetoresistance inGa1â^'xMnxAs. Physical Review B, 2002, 65, .	3.2	107
51	Structure and Magnetic Alignment of Metalloporphyrazine Columnar Aggregates in Their Mesophases and Crystalline Phasesâ€. Chemistry of Materials, 2002, 14, 1930-1936.	6.7	25
52	A kinetic Monte Carlo simulation of chemical vapor deposition: non-monotonic variation of surface roughness with growth temperature. Surface Science, 2001, 477, 95-101.	1.9	17
53	Synthesis and structural characterization of tricarbomethoxymethanate complexes of copper(II) and barium(II) and evaluation of their suitability for MOCVD applications. New Journal of Chemistry, 2001, 25, 400-407.	2.8	1
54	Synthesis, structural characterization, thermolysis and volatility study of the Schiff base complex Cu[CH3C(O)CHC(NCH2CH2OCH3)CH3]2. Polyhedron, 2001, 20, 2589-2595.	2.2	19

#	Article	IF	Citations
55	Measurements of the Complex Conductivity ofNbxSi1âˆ’xAlloys on the Insulating Side of the Metal-Insulator Transition. Physical Review Letters, 2001, 87, 116602.	7.8	20
56	Quantum-Critical Conductivity Scaling for a Metal-Insulator Transition. Science, 2000, 287, 633-636.	12.6	44
57	Measurement of resistance and spin-memory loss (spin relaxation) at interfaces using sputtered current perpendicular-to-plane exchange-biased spin valves. Physical Review B, 2000, 62, 1178-1185.	3.2	93
58	Resistance and spin-direction memory loss at Nb/Cu interfaces. Journal of Applied Physics, 1999, 85, 4545-4547.	2.5	22
59	A two-step low pressure chemical vapour deposition process for the production of tungsten metal thin films. Chemical Communications, 1998, , 1447-1448.	4.1	4
60	Synthesis and Thermolytic Behavior of Mixed-Valence Homo- and Heterometallic Group 14 Alkoxides. Inorganic Chemistry, 1998, 37, 2547-2553.	4.0	20
61	Studies of Thermotropic Properties and the Mesophase of Mixtures ofn-Alkanoates and Perfluoro-n-alkanoates of Dimolybdenum (MM). Chemistry of Materials, 1998, 10, 1758-1763.	6.7	13
62	Effect of sputtering pressure on the structure and current-perpendicular-to-the-plane magnetotransport of Co/Ag multilayered films. Physical Review B, 1998, 58, 5602-5610.	3.2	18
63	Temperature-Frequency Scaling in Amorphous Niobium-Silicon near the Metal-Insulator Transition. Physical Review Letters, 1998, 80, 4261-4264.	7.8	26
64	Syntheses, Structures, and Thermal Behavior of Cu(hfacac) Complexes Derived from Ethanolamines. Inorganic Chemistry, 1997, 36, 2930-2937.	4.0	34
65	Molecular Routes to Metal Carbides, Nitrides, and Oxides. 2. Studies of the Ammonolysis of Metal Dialkylamides and Hexamethyldisilylamides. Chemistry of Materials, 1996, 8, 1222-1228.	6.7	76
66	Chemical vapour deposition of electrochromic tungsten oxide films employing volatile tungsten(VI) oxo alkoxide/Î²-diketonate complexes. Chemical Communications, 1996, , 1129-1130.	4.1	30
67	Transport anisotropy and dimensional crossover in Ag/Ge multilayers. Journal of Magnetism and Magnetic Materials, 1996, 156, 359-361.	2.3	2
68	Spin fluctuations in an amorphous alloy. Physical Review B, 1996, 54, 12238-12244.	3.2	8
69	Conductivity studies of quantum-critical dynamics. Ferroelectrics, 1996, 176, 239-247.	0.6	2
70	Measuring transport anisotropy in Cu/Si multilayers using weak localization. Journal of Physics Condensed Matter, 1996, 8, 1389-1401.	1.8	4
71	Giant Magnetoresistance and Oscillation in Epitaxial Fe/Cr(111) Multilayers. Materials Research Society Symposia Proceedings, 1995, 384, 353.	0.1	2
72	Low pressure chemical vapor deposition of metallic films of iron, manganese, cobalt, copper, germanium and tin employing bis(trimethyl)silylamido complexes, M(N(SiMe3)2)n. Chemical Vapor Deposition, 1995, 1, 49-51.	1.3	27

#	Article	IF	Citations
73	Mechanistic Role of H2O and the Ligand in the Chemical Vapor Deposition of Cu, Cu2O, CuO, and Cu3N from Bis(1,1,1,5,5,5-hexafluoropentane-2,4-dionato)copper(II). Chemistry of Materials, 1995, 7, 1589-1596.	6.7	84
74	Molecular Routes for the Synthesis of Metal Carbides, Nitrides, and Oxides. 1. Studies of the Thermal Decomposition of M2(OR)6 and M2(CH2Ph)2(OR)4 Compounds Where M = Mo and W. Chemistry of Materials, 1995, 7, 84-92.	6.7	19
75	Superconductivity in layered Ge/Cu films. Scripta Materialia, 1995, 6, 811-814.	0.5	2
76	Structure and stability of sputter deposited betaâ€tungsten thin films. Applied Physics Letters, 1994, 64, 3231-3233.	3.3	111
77	Effects of weak localization and superconducting fluctuations on the frequency dependence of the conductivity in copper-semiconductor sandwiches. Physical Review B, 1994, 50, 2606-2621.	3.2	6
78	Multiple Bonds between Metal Atoms in Ordered Assemblies. 2. Quadrupole Bonds in the Mesomorphic State. Journal of the American Chemical Society, 1994, 116, 4551-4566.	13.7	60
79	Synthesis and Thermal and Hydrolytic Conversion of Heterometallic Copper Oxide-Alkoxides. Inorganic Chemistry, 1994, 33, 2167-2179.	4.0	24
80	Chemical Vapor Deposition of Metal Fluorides Using Sodium and Zirconium Fluoroalkoxides. Chemistry of Materials, 1994, 6, 1684-1692.	6.7	31
81	Anisotropic Electron Transport in Metallic Multilayers. , 1994, , 415-422.		0
82	High frequency magnetoconductivity of disordered copper films. Solid State Communications, 1993, 85, 941-944.	1.9	9
83	Lowâ€angle xâ€ray diffraction withinsituannealing: Application to W/Cu multilayers. Journal of Applied Physics, 1993, 74, 4331-4338.	2.5	3
84	Anisotropic electron diffusion and weak localization in Cu/Al multilayers. Physical Review B, 1993, 48, 12202-12216.	3.2	8
85	Thermal Expansion and Relaxation of W-Cu Multilayers. Materials Research Society Symposia Proceedings, 1992, 286, 367.	0.1	0
86	Anisotropic Electron Transport in Cu/Al Multilayers. Materials Research Society Symposia Proceedings, 1992, 286, 397.	0.1	0
87	M2(OR)6 compounds (M = Al, Mo, W; R = t-Bu, cy-Hex) as single-source precursors. Studies of thermolysis under helium flow. Chemistry of Materials, 1991, 3, 221-222.	6.7	24
88	Limits to weak localization in Ca70Mg30â^'xAlx. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 90-93.	5.6	2
89	Fitting to magnetoresistance under weak localization in three dimensions. Journal De Physique, 1989, 50, 1673-1688.	1.8	118
90	Crystallization of icosahedral Alî—¸Mnî—¸Si. Materials Science and Engineering, 1988, 99, 399-402.	0.1	1

#	Article	IF	Citations
91	Quantum corrections to the conductivity in Mg70Cu30â^'xAux, x = 0, 1, 3, 9, and Mg70Zn30â^'xAux, x = 0, 3. Materials Science and Engineering, 1988, 99, 183-186.	0.1	11
92	Structure of quasi-crystalline Alî—¸Mnî—¸Ru: X-ray and neutron studies. Materials Science and Engineering, 1988, 99, 345-348.	0.1	6
93	Positive Hall effect in paramagnetic amorphous Zr-Fe. Physical Review B, 1988, 37, 4499-4501.	3.2	43
94	Kumaret al.Reply. Physical Review Letters, 1988, 60, 1987-1987.	7.8	11
95	Quantum corrections to the conductivity in Mg-based metallic glasses. Physical Review B, 1988, 38, 10421-10429.	3.2	19
96	Theoretical studies of electron transfer in metal dimers: XY+â†'X+Y, where X, Y=Be, Mg, Ca, Zn, Cd. Journal of Chemical Physics, 1987, 87, 926-935.	3.0	49
97	Electrical resistivity of icosahedral Mg-Al-Zn alloys. Physical Review B, 1987, 35, 4819-4822.	3.2	22
98	Weak localization in two and three dimensions: Dephasing by zero-point motion. Physical Review Letters, 1987, 59, 1853-1855.	7.8	23
99	EXAFS studies of La1â^'xGax metallic glasses. Journal of Non-Crystalline Solids, 1986, 79, 41-55.	3.1	3
100	Chemical applications of scanning tunneling microscopy. IBM Journal of Research and Development, 1986, 30, 484-491.	3.1	6
101	EXAFS studies of the metallic glass La80Ga20. Journal of Non-Crystalline Solids, 1984, 61-62, 409-414.	3.1	2
102	Non-Linear Beam Transport for the Lens 7 MeV Proton Beam. , 0, , .		1