Morten Ring Eskildsen

List of Publications by Year
in descending order

78 papers	2,384 citations	201658 27 h-index	206102 48 g-index
78 all docs	78 docs citations	78 times ranked	1563 citing authors

#	Article	IF	Citations
1	Effects of the Order Parameter Anisotropy on the Vortex Lattice in UPt3. Frontiers in Electronic Materials, 2022, 2, .	3.1	1
2	Reversible ordering and disordering of the vortex lattice in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">UPt</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 105, .	3.2	2
3	Field angle dependent vortex lattice phase diagram in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	3.2	2
4	Rotational transition, domain formation, dislocations, and defects in vortex systems with combined sixfold and twelvefold anisotropic interactions. Physical Review B, 2020, 101, .	3.2	5
5	Topological energy barrier for skyrmion lattice formation in MnSi. Physical Review B, 2020, 102, .	3.2	4
6	Broken time-reversal symmetry in the topological superconductor UPt3. Nature Physics, 2020, 16, 531-535.	16.7	41
7	Structural studies of metastable and equilibrium vortex lattice domains in MgB2. New Journal of Physics, 2019, 21, 063003.	2.9	4
8	Nonequilibrium structural phase transitions of the vortex lattice in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2019, 99, .	3.2	6
9	Skyrmions in anisotropic magnetic fields: strain and defect driven dynamics. MRS Advances, 2019, 4, 643-650.	0.9	3
10	Magnetic small-angle neutron scattering. Reviews of Modern Physics, 2019, 91, .	45.6	140
11	Structural transition kinetics and activated behavior in the superconducting vortex lattice. Physical Review B, 2019, 99, .	3.2	7
12	Superconductivity, pairing symmetry, and disorder in the doped topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sn</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>x</mml:mi><mml:mo>â‰¥</mml:mo><mml:mn>0.10</mml:mn></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	3.2	14
13	Structural transitions in vortex systems with anisotropic interactions. New Journal of Physics, 2018, 20, 023005.	2.9	12
14	Metastability and hysteretic vortex pinning near the order-disorder transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> : Interplay between plastic and elastic energy barriers. Physical Review B, 2017, 95, .	3.2	14
15	Structure and property correlations in FeS. Physica C: Superconductivity and Its Applications, 2017, 534, 29-36.	1.2	37
16	Anisotropy and multiband superconductivity in Sr2RuO4 determined by small-angle neutron scattering studies of the vortex lattice. Physical Review B, 2017, 96, .	3.2	13
17	Spin susceptibility of the topological superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">UPt</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> from polarized neutron diffraction. Physical Review B, 2017, 96, .	3.2	6
18	Simultaneous evidence for Pauli paramagnetic effects and multiband superconductivity inKFe2As2by small-angle neutron scattering studies of the vortex lattice. Physical Review B, 2016, 93, .	3.2	6

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19	Publisherâ€™s Note: Dynamic Reorganization of Vortex Matter into Partially Disordered Lattices [Phys. Rev. Lett.115, 067001 (2015)]. Physical Review Letters, 2015, 115, .	7.8	1
20	Dynamic Reorganization of Vortex Matter into Partially Disordered Lattices. Physical Review Letters, 2015, 115, 067001.	7.8	20
21	Nodal gap structure and order parameter symmetry of the unconventional superconductor UPt₃. New Journal of Physics, 2015, 17, 023041.	2.9	21
22	Persistence of Metastable Vortex Lattice Domains inMgB2in the Presence of Vortex Motion. Physical Review Letters, 2013, 111, 107002.	7.8	11
23	Anisotropy of the Superconducting State in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>RuO</mml:mi><mml:mn Physical Review Letters, 2013, 111, 087003.	7.8	32
24	Magnetization in the superconducting state of UPt<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>from polarized neutron diffraction. Physical Review B, 2012, 86, .	3.2	9
25	Field dependence of the superconducting basal plane anisotropy of TmNi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>B<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>C. Physical Review B, 2012, 86, .	3.2	1
26	Vortex Lattice Studies inCeCoIn5withHâŠ¥c. Physical Review Letters, 2012, 108, 087002.	7.8	13
27	Observation of Well-Ordered Metastable Vortex Lattice Phases in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Using Small-Angle Neutron Scattering. Physical Review Letters, 2012, 108, 167001.	7.8	21
28	Vortex structures, penetration depth and pairing in iron-based superconductors studied by small-angle neutron scattering. Reports on Progress in Physics, 2011, 74, 124504.	20.1	34
29	Vortex lattices in type-II superconductors studied by small-angle neutron scattering. Frontiers of Physics, 2011, 6, 398-409.	5.0	22
30	Small-angle neutron scattering study of vortices in superconducting Ba(Fe_{0.93}Co_{0.07})₂As₂. Superconductor Science and Technology, 2010, 23, 054007.	3.5	7
31	Publisherâ€™s Note: Exploring the Fragile Antiferromagnetic Superconducting Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math> [Phys. Rev. Lett.105, 187001 (2010)]. Physical Review Letters, 2010, 105, .	7.8	0
32	Observations of Pauli paramagnetic effects on the flux line lattice in CeCoIn₅. New Journal of Physics, 2010, 12, 023026.	2.9	28
33	Exploring the Fragile Antiferromagnetic Superconducting Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2010, 105, 187001.	7.8	30
34	Small-angle neutron scattering study of the vortex lattice in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LuNi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2009, 79, .	3.2	12
35	Vortex imaging in Co-doped BaFe2As2. Physica C: Superconductivity and Its Applications, 2009, 469, 529-534.	1.2	28
36	Vortices in superconductingBa(Fe0.93Co0.07)2As2studied via small-angle neutron scattering and Bitter decoration. Physical Review B, 2009, 79, .	3.2	49

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37	Superconducting Vortices in CeCoIn ₅ : Toward the Pauli-Limiting Field. Science, 2008, 319, 177-180.	12.6	104
38	Small-angle neutron scattering measurements of the vortex lattice inCaC6. Physical Review B, 2007, 75, .	3.2	11
39	Pauli Paramagnetic Effects on Vortices in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TmNi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi></mml:math>. Physical Review Letters, 2007, 99, 167001.	7.8	31
40	Penetration depth anisotropy in MgB2 single crystals and powders. Journal of Physics and Chemistry of Solids, 2006, 67, 493-496.	4.0	3
41	Vortex phase diagram studies in the weakly pinned single crystals of YNi2B2C and LuNi2B2C. Pramana - Journal of Physics, 2006, 66, 113-129.	1.8	10
42	Field Dependent Coherence Length in the Superclean, High-ÎºSuperconductorCeCoIn5. Physical Review Letters, 2006, 97, 127001.	7.8	37
43	Measuring the penetration depth anisotropy inMgB2using small-angle neutron scattering. Physical Review B, 2006, 73, .	3.2	16
44	Magnetic-field-induced orientation of superconductingMgB2crystallites determined by x-ray diffraction. Physical Review B, 2006, 74, .	3.2	1
45	dHvA oscillations, upper critical field and the peak effect studies in a single crystal of LuNi2B2C. Physica B: Condensed Matter, 2005, 359-361, 476-478.	2.7	8
46	Field-induced magnetic phases in the normal and superconducting states ofErNi2B2C. Physical Review B, 2004, 69, .	3.2	17
47	Neutron diffraction study of anomalous high-field magnetic phases inTmNi2B2C. Physical Review B, 2004, 69, .	3.2	11
48	Vortex lattice reorientation and anisotropy in MgB2â€“â€“effects of two-band superconductivity. Physica C: Superconductivity and Its Applications, 2004, 404, 135-139.	1.2	10
49	Magnetic phase diagram of ErNi2B2C. Physica C: Superconductivity and Its Applications, 2004, 408-410, 97-99.	1.2	2
50	Scanning tunneling spectroscopy on single crystal MgB2. Physica C: Superconductivity and Its Applications, 2003, 385, 169-176.	1.2	42
51	Vortex lattice imaging in single crystal MgB2 by scanning tunneling spectroscopy. Physica C: Superconductivity and Its Applications, 2003, 388-389, 143-144.	1.2	2
52	Specific heat of ceramic and single crystal MgB2. Physica C: Superconductivity and Its Applications, 2003, 388-389, 107-108.	1.2	6
53	Hexagonal and Square Flux Line Lattices inCeCoIn5. Physical Review Letters, 2003, 90, 187001.	7.8	53
54	Vortex imaging in magnesium diboride withHâŠ¥c. Physical Review B, 2003, 68, .	3.2	36

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55	Effects of Two-Band Superconductivity on the Flux-Line Lattice in Magnesium Diboride. Physical Review Letters, 2003, 91, 047002.	7.8	88
56	MgB2single crystals: high pressure growth and physical properties. Superconductor Science and Technology, 2003, 16, 221-230.	3.5	86
57	Vortex Imaging in theÏ€Band of Magnesium Diboride. Physical Review Letters, 2002, 89, 187003.	7.8	259
58	Flux line lattice symmetries in the borocarbide superconductor LuNi2B2C. Pramana - Journal of Physics, 2002, 58, 903-905.	1.8	2
59	Flux Line Lattice Reorientation in the Borocarbide Superconductors withHâˆ¥a. Physical Review Letters, 2001, 86, 320-323.	7.8	28
60	Temperature Dependence of the Flux Line Lattice Transition into Square Symmetry in SuperconductingLuNi2B2C. Physical Review Letters, 2001, 86, 5148-5151.	7.8	52
61	Neutron Scattering Studies of The Flux Line Lattice and Magnetic Ordering in TmNi2B2C. , 2001, , 333-340.		0
62	Flux Line Lattice Symmetry Transitions in the Borocarbide Superconductors. , 2001, , 313-322.		0
63	FLUX LINE LATTICE SYMMETRIES IN THE BOROCARBIDE SUPERCONDUCTORS. , 2000, , .		0
64	TEMPERATURE DEPENDENCE OF THE FLUX LINE LATTICE HEXAGONAL TO SQUARE SYMMETRY TRANSITION IN LuNi₂B₂C: A CROSSOVER FROM LONDON TO GINZBURG-LANDAU BEHAVIOUR. , 2000, , .		0
65	Non-locality and the flux line lattice square to hexagonal symmetry transition in the borocarbide superconductors. Physica C: Superconductivity and Its Applications, 2000, 332, 320-326.	1.2	5
66	Interwoven magnetic and flux line structures in single crystal (Tm,Er)Ni2B2C (invited). Journal of Applied Physics, 2000, 87, 5544-5548.	2.5	3
67	Interdependence of Magnetism and Superconductivity in the BorocarbideTmNi2B2C. Physical Review Letters, 2000, 84, 4982-4985.	7.8	42
68	Systematic Studies of the Square-Hexagonal Flux Line Lattice Transition inLu(Ni1â^'xCox)2B2C: The Role of Nonlocality. Physical Review Letters, 1999, 82, 4082-4085.	7.8	62
69	Effects of Magnetic Order on the Superconducting Length Scales and Critical Fields in Single CrystalErNi2B2C. Physical Review Letters, 1999, 82, 1756-1759.	7.8	29
70	Hysteresis in the field-induced magnetic structure in TmNi2B2C. Physica B: Condensed Matter, 1999, 259-261, 582-583.	2.7	6
71	Compound refractive optics for the imaging and focusing of low-energy neutrons. Nature, 1998, 391, 563-566.	27.8	132
72	Intertwined symmetry of the magnetic modulation and the flux-line lattice in the superconducting state of TmNi2B2C. Nature, 1998, 393, 242-245.	27.8	81

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73	Structure and Correlations of the Flux Line Lattice in Crystalline Nb through the Peak Effect. Physical Review Letters, 1998, 80, 833-836.	7.8	97
74	Structural Stability of the Square Flux Line Lattice inYNI2B2CandLuNi2B2CStudied with Small Angle Neutron Scattering. Physical Review Letters, 1997, 79, 487-490.	7.8	90
75	Observation of a Field-Driven Structural Phase Transition in the Flux Line Lattice inErNi2B2C. Physical Review Letters, 1997, 78, 1968-1971.	7.8	128
76	Square to hexagonal symmetry transition of the flux line lattice in YNi2B2C for different field orientations. Physica B: Condensed Matter, 1997, 241-243, 811-813.	2.7	0
77	Microscopic coexistence of magnetism and superconductivity in ErNi2B2C. Nature, 1996, 382, 236-238.	27.8	137
78	Surface acoustic waves and the magnetoconductivity of a two-dimensional electron gas. Journal of Physics Condensed Matter, 1996, 8, 6597-6605.	1.8	1