Jan Fedor

List of Publications by Year
in descending order

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53	574	623734	677142
papers	citations	14 h-index	22 g-index

53	53	53	739
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct Observation of Geometrical Phase Transitions in Mesoscopic Superconductors by Scanning Tunneling Microscopy. Physical Review Letters, 2005, 95, 167002.	7.8	92
2	Transverse instabilities of multiple vortex chains in magnetically coupled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NbSe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m bilayers. Physical Review B, 2009, 80, .	3.2	38
3	Tunable transport in magnetically coupled MoGe/Permalloy hybrids. Applied Physics Letters, 2008, 93, .	3.3	33
4	Adjustment of threshold voltage in AlN/AlGaN/GaN high-electron mobility transistors by plasma oxidation and Al2O3 atomic layer deposition overgrowth. Applied Physics Letters, 2014, 104, .	3.3	31
5	Coexistence and Coupling of Two Distinct Charge Density Waves in Sm₂Te₅. Journal of the American Chemical Society, 2008, 130, 3310-3312.	13.7	28
6	Visualizing domain wall and reverse domain superconductivity. Nature Communications, 2014, 5, 4766.	12.8	28
7	Properties of hot pressed MgB2/Ti tapes. Physica C: Superconductivity and Its Applications, 2009, 469, 713-716.	1.2	23
8	Resistive switching in TiO2-based metalâ€“insulatorâ€“metal structures with Al2O3 barrier layer at the metal/dielectric interface. Thin Solid Films, 2014, 563, 10-14.	1.8	20
9	Resistive switching in HfO2-based atomic layer deposition grown metalâ€“insulatorâ€“metal structures. Applied Surface Science, 2014, 312, 112-116.	6.1	20
10	Highly electrically and thermally conductive silicon carbide-graphene composites with yttria and scandia additives. Journal of the European Ceramic Society, 2020, 40, 241-250.	5.7	17
11	Large-scale high-resolution scanning Hall probe microscope used for MgB2filament characterization. Superconductor Science and Technology, 2005, 18, 417-421.	3.5	16
12	Fabrication of a vector Hall sensor for magnetic microscopy. Applied Physics Letters, 2003, 82, 3704-3706.	3.3	15
13	Magnetic elements for switching magnetization magnetic force microscopy tips. Journal of Magnetism and Magnetic Materials, 2010, 322, 2715-2721.	2.3	15
14	High resolution switching magnetization magnetic force microscopy. Applied Physics Letters, 2013, 102, .	3.3	15
15	The local effect of magnetic impurities on superconductivity in Co_xNbSe₂and Mn_xNbSe₂single crystals. Journal of Physics Condensed Matter, 2010, 22, 015501.	1.8	14
16	Imaging of vortex states in mesoscopic superconductors. Applied Physics Letters, 2005, 87, 162515.	3.3	11
17	Magnetization properties and vortex phase diagram of Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>TiSe<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>single crystals. Physical Review B, 2013, 88, .	3.2	11
18	Switching Magnetization Magnetic Force Microscopy â€” An Alternative to Conventional Lift-Mode MFM. Journal of Electrical Engineering, 2011, 62, 37-43.	0.7	10

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19	Ni/Auâ€“Al2O3 gate stack prepared by low-temperature ALD and lift-off for MOS HEMTs. Microelectronic Engineering, 2013, 112, 204-207.	2.4	10
20	Hall bar device processing on patterned substrates using optical lithography. Sensors and Actuators A: Physical, 2002, 101, 150-155.	4.1	8
21	Dual-tip magnetic force microscopy with suppressed influence on magnetically soft samples. Nanotechnology, 2015, 26, 055304.	2.6	8
22	Gadolinium Scandate: Next Candidate for Alternative Gate Dielectric in CMOS Technology?. Journal of Electrical Engineering, 2011, 62, 54-56.	0.7	8
23	Novel Magnetic Tips Developed for the Switching Magnetization Magnetic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2010, 10, 4477-4481.	0.9	7
24	The influence of shape anisotropy on vortex nucleation in Pacman-like nanomagnets. Journal of Magnetism and Magnetic Materials, 2013, 336, 29-36.	2.3	7
25	High Resolution Tips for Switching Magnetization MFM. Acta Physica Polonica A, 2014, 126, 386-387.	0.5	7
26	Study of Tip-Induced Ti-Film Oxidation in Atomic Force Microscopy Contact and Non-Contact Mode. Acta Physica Polonica A, 2003, 103, 553-558.	0.5	7
27	Scanning vector Hall probe microscope. Review of Scientific Instruments, 2003, 74, 5105-5110.	1.3	6
28	Technology and properties of a vector hall sensor. Microelectronics Journal, 2006, 37, 1543-1546.	2.0	6
29	Influence of Domain Width on Vortex Nucleation in Superconductor/Ferromagnet Hybrid Structures. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1107-1110.	1.8	6
30	Critical current density analysis ofex situMgB2wire by in-field and temperature Hall probe imaging. Superconductor Science and Technology, 2005, 18, 1135-1140.	3.5	5
31	Adjustable Superconducting Anisotropy in Superconductor-Ferromagnet Bilayers. IEEE Transactions on Applied Superconductivity, 2009, 19, 3471-3474.	1.7	5
32	Low-temperature scanning tunneling microscopy and spectroscopy measurements of ultrathin Pb films. Superconductor Science and Technology, 2015, 28, 045003.	3.5	5
33	Doppler-scanning tunneling microscopy current imaging in superconductor-ferromagnet hybrids. Applied Physics Letters, 2016, 108, .	3.3	5
34	Growth of Ru and RuO2 films by metal-organic chemical vapour deposition. European Physical Journal Special Topics, 2001, 11, Pr3-325-Pr3-332.	0.2	5
35	On-tip sub-micrometer Hall probes for magnetic microscopy prepared by AFM lithography. Ultramicroscopy, 2009, 109, 1080-1084.	1.9	4
36	Magnetic nanostructures for non-volatile memories. Microelectronic Engineering, 2013, 110, 474-478.	2.4	4

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37	Magnetic-field imaging using vortex-core MFM tip. Applied Physics Letters, 2020, 116, .	3.3	4
38	Anisotropy in transport properties of ordered strained InGaP. Journal of Crystal Growth, 2003, 248, 369-374.	1.5	3
39	Scanning vector Hall probe microscopy. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2141-2143.	2.3	3
40	Novel Hall sensors developed for magnetic field imaging systems. Journal of Magnetism and Magnetic Materials, 2007, 316, 232-235.	2.3	3
41	Properties of Al2O3 thin films grown by atomic layer deposition. , 2012, , .		3
42	The spectroscopic signature of the Co magnetic state in Co_xNbSe₂superconducting single crystals. Superconductor Science and Technology, 2011, 24, 024010.	3.5	2
43	Anisotropic Superconductivity and Vortex Dynamics inÂMagnetically Coupled F/S and F/S/F Hybrids. Journal of Superconductivity and Novel Magnetism, 2011, 24, 905-910.	1.8	2
44	Direct observation of vortex lattice transitions in mesoscopic superconducting single crystals using STM. Physica C: Superconductivity and Its Applications, 2006, 437-438, 127-131.	1.2	1
45	Switching of magnetic domains in Permalloy microstructures using two-dimensional electron gas. Applied Physics Letters, 2006, 89, 182513.	3.3	1
46	Vortex lattice transitions in artificially engineered NbSe2 single crystals observed by STM. Physica C: Superconductivity and Its Applications, 2007, 460-462, 952-953.	1.2	1
47	Early stage degradation of InAlN/GaN HEMTs during electrical stress. , 2012, , .		1
48	Resistivity and mobility in ordered InGaP grown by MOVPE. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 382-387.	0.8	0
49	50-nm Local Anodic Oxidation Technology of Semiconductor Heterostructures. Journal of Nanoscience and Nanotechnology, 2010, 10, 4448-4453.	0.9	0
50	Nucleation and annihilation of magnetic vortices in Pacman-like nanodots observed by micro-Hall probes. , 2012, , .		0
51	Detection elements for on-cantilever laboratory. , 2012, , .		0
52	Magnetization Studies of Cu_{0.058}TiSe_{2} Near a Quantum Critical Point. Acta Physica Polonica A, 2014, 126, 336-337.	0.5	0
53	Vortex Dynamics in Ferromagnetic Nanoelements Observed by Micro-Hall Probes. Acta Physica Polonica A, 2014, 126, 390-391.	0.5	0