

# Michel Viret

## List of Publications by Year in descending order

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120  
papers

10,890  
citations

53794

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29157

104  
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124  
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124  
docs citations

124  
times ranked

9557  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polar Chirality in BiFeO <sub>3</sub> Emerging from A Peculiar Domain Wall Sequence. Advanced Electronic Materials, 2022, 8, .	5.1	7
2	Ultrafast time-evolution of chiral Néel magnetic domain walls probed by circular dichroism in x-ray resonant magnetic scattering. Nature Communications, 2022, 13, 1412.	12.8	7
3	Photovoltaic Ferroelectric Materials for the Realization of All-Optical Devices. Advanced Optical Materials, 2022, 10, .	7.3	8
4	Imaging Topological Defects in a Noncollinear Antiferromagnet. Physical Review Letters, 2022, 128, 187201.	7.8	9
5	Strain tuning of interorbital correlations in $\text{LaVO}_3$ thin films. Physical Review B, 2021, 103, .	3.2	9
6	Large Tuning of Electroresistance in an Electromagnetic Device Structure Based on the Ferromagnetic Piezoelectric Interface. ACS Applied Materials & Interfaces, 2021, 13, 18984-18990.	8.0	0
7	Spin-charge conversion in ferromagnetic Rashba states. Physical Review B, 2021, 104, .	3.2	6
8	Electric and antiferromagnetic chiral textures at multiferroic domain walls. Nature Materials, 2020, 19, 386-390.	27.5	64
9	Spin insulatronics. Physics Reports, 2020, 885, 1-27.	25.6	83
10	Ultrafast antiferromagnetic switching in NiO induced by spin transfer torques. Physical Review B, 2020, 102, .	3.2	18
11	Origin of the magnetic properties of Fe-implanted 4H-SiC semiconductor. Journal of Applied Physics, 2020, 127, 183901.	2.5	2
12	Antiferromagnetic textures in BiFeO <sub>3</sub> controlled by strain and electric field. Nature Communications, 2020, 11, 1704.	12.8	61
13	Ultrafast light-induced shear strain probed by time-resolved x-ray diffraction: Multiferroic BiFeO <sub>3</sub> as a case study. Physical Review B, 2020, 102, .	3.2	9
14	Magnetoelastic and magnetoelectric couplings across the antiferromagnetic transition in multiferroic BiFeO <sub>3</sub> . Physical Review B, 2019, 99, .	3.2	9
15	Characterization of nanostructure in low dose Fe-implanted p-type 6H-SiC using atom probe tomography. Journal of Magnetism and Magnetic Materials, 2019, 481, 189-193.	2.3	1
16	Giant rectified voltages from magnetization dynamics of an atomically sharp domain wall. Nanotechnology, 2019, 30, 285201.	2.6	0
17	Temperature-dependent photo-response in multiferroic BiFeO <sub>3</sub> revealed by transmission measurements. Journal of Applied Physics, 2019, 125, .	2.5	6
18	Nonlinear spin conductance of yttrium iron garnet thin films driven by large spin-orbit torque. Physical Review B, 2018, 97, .	3.2	35

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19	Electrical properties of epitaxial yttrium iron garnet ultrathin films at high temperatures. Physical Review B, 2018, 97, .	3.2	39
20	Multi-stimuli manipulation of antiferromagnetic domains assessed by second-harmonic imaging. Nature Materials, 2017, 16, 803-807.	27.5	41
21	Fe implantation effect in the 6H-SiC semiconductor investigated by Mössbauer spectrometry. Journal of Applied Physics, 2017, 122, 083905.	2.5	10
22	Real-space imaging of non-collinear antiferromagnetic order with a single-spin magnetometer. Nature, 2017, 549, 252-256.	27.8	203
23	Efficient spin-to-charge conversion in the 2D electron liquid at the LAO/STO interface. Europhysics Letters, 2016, 116, 17006.	2.0	52
24	Optical Writing of Magnetic Properties by Remanent Photostriction. Physical Review Letters, 2016, 117, 107403.	7.8	50
25	Photovoltaic response around a unique domain wall in single-crystalline $\text{BiFeO}_3$ . Physical Review B, 2016, 94, .	3.2	13
26	Interlayer coupling through a dimensionality-induced magnetic state. Nature Communications, 2016, 7, 11227.	12.8	58
27	Tailoring the electronic transitions of $\text{NdNiO}_3$ films through (111) oriented interfaces. APL Materials, 2015, 3, 062506.	5.1	57
28	Contribution of iron silicide nanoparticles to the magnetic behavior of annealed Fe implanted 6H-SiC. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 60-64.	0.8	3
29	Unexpected Magnetic Properties of Gas-Stabilized Platinum Nanostructures in the Tunneling Regime. Nano Letters, 2015, 15, 45-50.	9.1	9
30	Coupling between an incommensurate antiferromagnetic structure and a soft ferromagnet in the archetype multiferroic $\text{BiFeO}_3$ system. Physical Review B, 2015, 91, .	3.2	7
31	Bismuth-based perovskites as multiferroics. Comptes Rendus Physique, 2015, 16, 182-192.	0.9	20
32	Control of the spin to charge conversion using the inverse Rashba-Edelstein effect. Applied Physics Letters, 2015, 106, .	3.3	66
33	Interfacial Control of Magnetic Properties at $\text{LaMnO}_3/\text{LaNiO}_3$ Interfaces. Nano Letters, 2015, 15, 7355-7361.	9.1	87
34	Fe-implanted 6H-SiC: Direct evidence of $\text{Fe}_3\text{Si}$ nanoparticles observed by atom probe tomography and $^{57}\text{Fe}$ Mössbauer spectroscopy. Journal of Applied Physics, 2015, 117, 183907.	2.5	10
35	Electronic transitions in strained $\text{SmNiO}_3$ thin films. APL Materials, 2014, 2, 116110.	5.1	76
36	Conduction of spin currents through insulating antiferromagnetic oxides. Europhysics Letters, 2014, 108, 57005.	2.0	145

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37	Annealing Effect on the Structural and Magnetic Properties of Mn-Implanted 6H-SiC. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0
38	Magnetic nanoconstrictions made from nickel electrodeposition in polymeric bi-conical tracks: Magneto-transport behavior. Radiation Physics and Chemistry, 2014, 94, 66-71.	2.8	8
39	Break junctions. Journal of Physics Condensed Matter, 2014, 26, 470301.	1.8	1
40	Full Control of the Spin-Wave Damping in a Magnetic Insulator Using Spin-Orbit Torque. Physical Review Letters, 2014, 113, 197203.	7.8	143
41	Prediction of novel interface-driven spintronic effects. Journal of Physics Condensed Matter, 2014, 26, 315008.	1.8	13
42	Revisiting galvanomagnetic effects in conducting ferromagnets. Journal of Physics Condensed Matter, 2014, 26, 432201.	1.8	5
43	Electrical detection of internal dynamical properties of domain walls. Physical Review B, 2014, 89, .	3.2	5
44	Detection of Microwave Spin Pumping Using the Inverse Spin Hall Effect. Physical Review Letters, 2013, 111, 217204.	7.8	87
45	Comparative measurements of inverse spin Hall effects and magnetoresistance in YIG/Pt and YIG/Ta. Physical Review B, 2013, 87, .	3.2	431
46	Magnetoresistance in magnetic nanoconstrictions: The role of structural defects. Journal of Applied Physics, 2013, 113, .	2.5	5
47	In situ break-junction sample holder for transmission electron microscopy. EPJ Applied Physics, 2013, 64, 31001.	0.7	0
48	Light controlled magnetoresistance and magnetic field controlled photoresistance in CoFe film deposited on BiFeO <sub>3</sub> . Applied Physics Letters, 2012, 100, .	3.3	24
49	Wavelength dependence of photoinduced deformation in BiFeO <sub>3</sub> . Physical Review B, 2012, 85, .	3.2	52
50	Photoluminescence Investigation of Defects and Optical Band Gap in Multiferroic BiFeO <sub>3</sub> Single Crystals. Applied Physics Express, 2012, 5, 035802.	2.4	53
51	Large RF susceptibility of transverse domain walls. Journal of Physics Condensed Matter, 2012, 24, 024211.	1.8	2
52	Nanoscale Chemical and Structural Characterization of Transient Metallic Nanowires using Aberration-Corrected STEM-EELS. Nano Letters, 2012, 12, 2732-2739.	9.1	10
53	$\hat{\Gamma}^2$ -NaFeO <sub>2</sub> , a new room-temperature multiferroic material. Materials Research Bulletin, 2012, 47, 2294-2298.	5.2	38
54	Direct imaging of both ferroelectric and antiferromagnetic domains in multiferroic BiFeO <sub>3</sub> single crystal using x-ray photoemission electron microscopy. Applied Physics Letters, 2012, 100, .	3.3	20

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55	Interaction between ferromagnetic resonance and spin currents in nanostructures. Physical Review B, 2012, 85, .	3.2	17
56	Photoelectric Effects in Single Domain BiFeO <sub>3</sub> Crystals. Advanced Functional Materials, 2012, 22, 4814-4818.	14.9	86
57	Positive domain wall resistance in atomic-sized constrictions. Europhysics Letters, 2011, 94, 27002.	2.0	9
58	Synthesis and magnetic reversal of bi-conical Ni nanostructures. Journal of Applied Physics, 2011, 110, .	2.5	9
59	Light-induced size changes in BiFeO <sub>3</sub> crystals. Nature Materials, 2010, 9, 803-805.	27.5	286
60	Multiferroicity and hydrogen-bond ordering in $\text{BiFeO}_3$ . Physical Review B, 2010, 81, .	3.2	145
61	Exchange coupling with the multiferroic compound $\text{BiFeO}_3$ in antiferromagnetic multidomain films and single-domain crystals. Physical Review B, 2010, 81, .	3.2	47
62	Neutron diffraction study of the BiFeO <sub>3</sub> spin cycloid at low temperature. Journal of Physics Condensed Matter, 2010, 22, 256001.	1.8	39
63	Normal and reversed tunable magnetoresistance in a NiOx/p-doped silicon diode. Applied Physics Letters, 2009, 94, 023504.	3.3	1
64	Microstructural and magnetic study of Fe-implanted 6H-SiC. Physica B: Condensed Matter, 2009, 404, 4731-4734.	2.7	21
65	Mixed-valence manganites. Advances in Physics, 2009, 58, 571-697.	14.4	194
66	Electric Field Switching of the Magnetic Anisotropy of a Ferromagnetic Layer Exchange Coupled to the Multiferroic Compound $\text{BiFeO}_3$ . Physical Review Letters, 2009, 103, 257601.	7.8	195
67	Nonlocal properties of a multidomain magnetic configuration. Physical Review B, 2009, 80, .	3.2	1
68	Electric-Field-Induced Spin Flop in $\text{BiFeO}_3$ Single Crystals at Room Temperature. Physical Review Letters, 2008, 100, 227602.	7.8	532
69	Thickness-dependent structural and electrical properties of multiferroic Mn-doped BiFeO <sub>3</sub> thin films grown epitaxially by pulsed laser deposition. Applied Physics Letters, 2008, 93, 082902.	3.3	60
70	Ballistic magnetoresistance?. Journal of Physics Condensed Matter, 2008, 20, 083201.	1.8	33
71	Giant orbital moments are responsible for the anisotropic magnetoresistance of atomic contacts. Europhysics Letters, 2008, 83, 17010.	2.0	12
72	Magnetoresistance in NiOx nanoconstrictions controlled by magnetic fields and currents. Journal of Applied Physics, 2008, 103, 083901.	2.5	3

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73	Simple model of current-induced spin torque in domain walls. <i>Physical Review B</i> , 2007, 75, .	3.2	47
74	Very large spontaneous electric polarization in BiFeO <sub>3</sub> single crystals at room temperature and its evolution under cycling fields. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	584
75	Microstructural study of ferromagnetic Fe-implanted 6H-SiC. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 1473-1476.	0.8	7
76	Room-temperature coexistence of large electric polarization and magnetic order in $\text{BiFeO}_3$ single crystals. <i>Physical Review B</i> , 2007, 76, .	3.2	604
77	Giant anisotropic magneto-resistance in ferromagnetic atomic contacts. <i>European Physical Journal B</i> , 2006, 51, 1-4.	1.5	63
78	Fabrication and structural characterization of highly ordered sub-100-nm planar magnetic nanodot arrays over 1cm <sup>2</sup> coverage area. <i>Journal of Applied Physics</i> , 2006, 100, 074318.	2.5	42
79	Magnetotransport properties of Fe <sub>3</sub> O <sub>4</sub> epitaxial thin films: Thickness effects driven by antiphase boundaries. <i>Journal of Applied Physics</i> , 2006, 100, 103902.	2.5	82
80	Bidomain state in exchange biased Fe <sub>2</sub> Ni. <i>Applied Physics Letters</i> , 2005, 87, 222509.	3.3	52
81	Influence of parasitic phases on the properties of BiFeO <sub>3</sub> epitaxial thin films. <i>Applied Physics Letters</i> , 2005, 87, 072508.	3.3	369
82	Current induced pressure on a tilted magnetic domain wall. <i>Physical Review B</i> , 2005, 72, .	3.2	22
83	Magnetoresistance of mechanically stable Co nanoconstrictions. <i>Physical Review B</i> , 2004, 70, .	3.2	21
84	Magnetic Filaments in Resistive Manganites. <i>Physical Review Letters</i> , 2004, 93, 217402.	7.8	25
85	Magnetoresistance in nanocontacts induced by magnetostrictive effects. <i>Physical Review B</i> , 2004, 69, .	3.2	55
86	Current-induced distortion of a magnetic domain wall. <i>Europhysics Letters</i> , 2004, 65, 427-433.	2.0	136
87	$\mu$ asymmetry and magnetoresistance in nickel nanoconstrictions. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1571-1572.	2.3	9
88	Electronic noise in magnetic low-dimensional materials and nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 258-259, 119-124.	2.3	5
89	Random telegraph noise in a nickel nanoconstriction. <i>Journal of Applied Physics</i> , 2003, 93, 8433-8435.	2.5	5
90	Magnetic resistivity and electron-magnon scattering in 3d ferromagnets. <i>Journal of Applied Physics</i> , 2002, 91, 8129.	2.5	31

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91	Magnetoresistance through a single nickel atom. Physical Review B, 2002, 66, .	3.2	79
92	Individual Domain Wall Resistance in Submicron Ferromagnetic Structures. Physical Review Letters, 2002, 88, 157201.	7.8	89
93	Electron-magnon scattering and magnetic resistivity in 3d ferromagnets. Physical Review B, 2002, 66, .	3.2	179
94	Magnetotransport measurements as a tool to probe the micromagnetic configurations in epitaxial Co wires. Journal of Magnetism and Magnetic Materials, 2002, 240, 27-29.	2.3	5
95	Domain structures in epitaxial (101-0) Co wires. IEEE Transactions on Magnetics, 2001, 37, 2108-2110.	2.1	26
96	Negative high field magnetoresistance in 3d ferromagnets. Physica B: Condensed Matter, 2001, 294-295, 102-106.	2.7	17
97	Magnetization process in FePd thin films. Journal of Applied Physics, 2001, 89, 6781-6783.	2.5	14
98	Transport Properties of Mixed-Valence Manganites. , 2001, , 117-158.		2
99	Interface magnetism of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films studied by neutron reflectometry. Journal of Magnetism and Magnetic Materials, 2000, 211, 200-205.	2.3	28
100	Anisotropy of Domain Wall Resistance. Physical Review Letters, 2000, 85, 3962-3965.	7.8	68
101	<sup>55</sup> Mn nuclear magnetic resonance study of mixed-valence manganites. Journal of Physics Condensed Matter, 1999, 11, 4079-4086.	1.8	25
102	Colossal resistive relaxation effects in aPr <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> single crystal. Physical Review B, 1999, 59, 77-80.	3.2	98
103	Domain wall scattering in submicron cobalt bridges. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 907-913.	0.1	0
104	Spin polarised tunnelling as a probe of half metallic ferromagnetism in mixed-valence manganites. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 1-5.	2.3	24
105	Mixed-valence manganites. Advances in Physics, 1999, 48, 167-293.	14.4	2,325
106	Magnetic coherence above the Curie point in ferromagnetic LaSrMnO manganites. Europhysics Letters, 1998, 42, 301-306.	2.0	29
107	Low-field colossal magnetoresistance in manganite tunnel spin valves. Europhysics Letters, 1997, 39, 545-550.	2.0	279
108	Low-Field Colossal Magnetoresistance in Manganite Tunnel Junctions. Materials Research Society Symposia Proceedings, 1997, 494, 231.	0.1	10

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109	Colossal magnetoresistance of the variable range hopping regime in the manganites. Journal of Applied Physics, 1997, 81, 4964-4966.	2.5	91
110	The ferromagnetic domain wall as a GMR trilayer. Journal of Magnetism and Magnetic Materials, 1997, 165, 121-124.	2.3	10
111	Magnetic localization in mixed-valence manganites. Physical Review B, 1997, 55, 8067-8070.	3.2	450
112	Vector magnetometry with polarized neutron reflectometry with spin analysis. Physica B: Condensed Matter, 1997, 241-243, 1055-1059.	2.7	2
113	Magnetic coherence in the paramagnetic state of mixed-valence manganites. Physica B: Condensed Matter, 1997, 241-243, 430-432.	2.7	6
114	Giant Magnetoresistive Effects in a Single Element Magnetic Thin Film. Physical Review Letters, 1996, 77, 1580-1583.	7.8	281
115	Transport and magnetic properties of $A_{3+1\delta}B_2MnO_3$ (A = La, Y or Nd, B = Ca, Sr or Ba) magnetic perovskites. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 291-292.	2.3	5
116	Spin scattering in ferromagnetic thin films. Physical Review B, 1996, 53, 8464-8468.	3.2	184
117	Stoichiometry and electronic properties of. Journal of Physics Condensed Matter, 1996, 8, L33-L36.	1.8	25
118	Giant magnetoresistance in bulk mechanically alloyed Co-Ag. Journal of Physics Condensed Matter, 1995, 7, 8953-8966.	1.8	12
119	Electron Localization in Mixed-Valence Manganites. Physical Review Letters, 1995, 75, 3910-3913.	7.8	500
120	Transport properties of BiSrCaCuO thin films. Applied Superconductivity, 1993, 1, 1103-1114.	0.5	0