

William Pratt Jr

List of Publications by Year in descending order

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53
papers

2,100
citations

279701

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223716

46
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53
all docs

53
docs citations

53
times ranked

1367
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Spin-Triplet Superconductivity in Co-Based Josephson Junctions. Physical Review Letters, 2010, 104, 137002.	2.9	480
2	Controllable π Josephson junctions containing a ferromagnetic spin valve. Nature Physics, 2016, 12, 564-567.	6.5	172
3	Optimization of Spin-Triplet Supercurrent in Ferromagnetic Josephson Junctions. Physical Review Letters, 2012, 108, 127002.	2.9	117
4	Spin-memory loss at 4.2 K in sputtered Pd and Pt and at Pd/Cu and Pt/Cu interfaces. Applied Physics Letters, 2002, 81, 4787-4789.	1.5	108
5	Critical current behavior in Josephson junctions with the weak ferromagnet PdNi. Physical Review B, 2009, 79, .	1.1	86
6	Fabrication of layered metallic systems for perpendicular resistance measurements. Review of Scientific Instruments, 1989, 60, 127-131.	0.6	79
7	Controlled Normal and Inverse Current-Induced Magnetization Switching and Magnetoresistance in Magnetic Nanopillars. Physical Review Letters, 2004, 93, 157203.	2.9	72
8	Effect of antiferromagnetic interlayer coupling on current-assisted magnetization switching. Applied Physics Letters, 2003, 83, 114-116.	1.5	62
9	Switching current versus magnetoresistance in magnetic multilayer nanopillars. Applied Physics Letters, 2004, 84, 1516-1518.	1.5	62
10	Noncollinear spin transport in magnetic multilayers. Physical Review B, 2005, 71, .	1.1	53
11	Current-perpendicular-to-plane-magnetoresistance properties of Ru and Co/Ru interfaces. Journal of Applied Physics, 2002, 91, 8102.	1.1	51
12	0.1 ppm four-terminal resistance bridge for use with a dilution refrigerator. Review of Scientific Instruments, 1980, 51, 1516-1522.	0.6	45
13	Absence of mean-free-path effects in the current-perpendicular-to-plane magnetoresistance of magnetic multilayers. Physical Review B, 2002, 65, .	1.1	44
14	Josephson junctions with a synthetic antiferromagnetic interlayer. Physical Review B, 2009, 80, .	1.1	41
15	Giant magnetoresistance with current perpendicular to the layer planes of Ag/Co and AgSn/Co multilayers (invited). Journal of Applied Physics, 1993, 73, 5326-5331.	1.1	40
16	Spin-valve Josephson junctions for cryogenic memory. Physical Review B, 2018, 97, .	1.1	39
17	Spin-triplet supercurrent in Co/Ni multilayer Josephson junctions with perpendicular anisotropy. Physical Review B, 2012, 86, .	1.1	38
18	Structural and magnetic properties of triode-sputtered epitaxial $\text{Fe}_2\text{Fe}_4\text{N}$ films deposited on SrTiO ₃ (001) substrates. Applied Physics Letters, 2003, 82, 4534-4536.	1.5	35

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19	Variation of multilayer magnetoresistance with ferromagnetic layer sequence: Spin-memory loss effects. <i>Journal of Applied Physics</i> , 1997, 81, 4570-4572.	1.1	34
20	Magnetic states of magnetic multilayers at different fields. <i>Journal of Applied Physics</i> , 1994, 76, 6610-6612.	1.1	26
21	Area-dependence of spin-triplet supercurrent in ferromagnetic Josephson junctions. <i>Physical Review B</i> , 2012, 85, .	1.1	26
22	Current-perpendicular-to-plane spin transport properties of CoFe alloys: Spin diffusion length and scattering asymmetry. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	25
23	How to isolate effects of spin-flip scattering on giant magnetoresistance in magnetic multilayers (invited). <i>Journal of Applied Physics</i> , 1994, 75, 6699-6703.	1.1	24
24	Spin-memory loss and current-perpendicular-to-plane-magnetoresistance in sputtered multilayers with Au. <i>Journal of Applied Physics</i> , 2003, 93, 7918-7920.	1.1	24
25	Resistance and spin-direction memory loss at Nb/Cu interfaces. <i>Journal of Applied Physics</i> , 1999, 85, 4545-4547.	1.1	22
26	Growth and characterization of sputtered epitaxial $\text{Fe}_2\text{Fe}_4\text{N}$ and NbN films and bilayers using electron backscatter diffraction patterns and magnetometry. <i>Applied Physics Letters</i> , 2003, 82, 3281-3283.	1.5	20
27	Current perpendicular magnetoresistances of NiFeCo and NiFe-Permalloys. <i>Journal of Applied Physics</i> , 2000, 87, 8610-8614.	1.1	19
28	Specific resistance and scattering asymmetry of Py/Pd, Fe/V, Fe/Nb, and Co/Pt interfaces. <i>Journal of Applied Physics</i> , 2007, 102, 113916.	1.1	19
29	Critical current oscillations of elliptical Josephson junctions with single-domain ferromagnetic layers. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	19
30	A way to measure electron spin-flipping at ferromagnetic/nonmagnetic interfaces and application to Co/Cu. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	17
31	Enhancing current-perpendicular-to-plane magnetoresistance by adding interfaces within ferromagnetic layers. <i>Journal of Applied Physics</i> , 2003, 93, 3445-3449.	1.1	16
32	Manipulating current-induced magnetization switching (invited). <i>Journal of Applied Physics</i> , 2005, 97, 10C701.	1.1	16
33	Conduction electron scattering and spin flipping at sputtered Co/Ni interfaces. <i>Physical Review B</i> , 2010, 82, .	1.1	16
34	Spin-triplet supercurrent in Josephson junctions containing a synthetic antiferromagnet with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2017, 96, .	1.1	16
35	Fabrication and magnetic characterization of single domain Co_9Fe_9 nanostructures. <i>Journal of Applied Physics</i> , 2000, 87, 6316-6318.	1.1	14
36	Comparison of hysteresis loops from giant magnetoresistance and magnetometry for perpendicular-current exchange-biased spin valves. <i>Journal of Applied Physics</i> , 1997, 81, 4011-4013.	1.1	12

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37	Specific resistance of Pd/Ir interfaces. Applied Physics Letters, 2009, 94, 022112.	1.5	12
38	Enhancing current-perpendicular magnetoresistance in Permalloy-based exchange-biased spin valves by increasing spin-memory loss. Journal of Applied Physics, 2000, 87, 4831-4833.	1.1	11
39	Magnetic depth profiling Co/Cu multilayers to investigate magnetoresistance (invited). Journal of Applied Physics, 2000, 87, 6639-6643.	1.1	10
40	Apparatus for codeposition and layered deposition of reactive metals and volatile organic compounds with control of stoichiometry and film thickness. Review of Scientific Instruments, 1989, 60, 2666-2672.	0.6	9
41	Crystallographic characterization of sputter-deposited epitaxial Nb-Cu-Co and Nb-Cu-Permalloy multilayers using electron back-scatter diffraction patterns. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 261-273.	0.7	9
42	Perpendicular-current exchange-biased spin valve structures with micron-size superconducting top contacts. Journal of Applied Physics, 2001, 90, 5242-5246.	1.1	9
43	Current-Driven Excitations in Magnetic Multilayers: A Brief Review. Physica Status Solidi A, 2004, 201, 1379-1385.	1.7	9
44	Spin-polarized triplet supercurrent in Josephson junctions with perpendicular ferromagnetic layers. Physical Review B, 2020, 102, .	1.1	9
45	Inverted current-driven switching in Fe(Cr)/Cr/Fe(Cr) nanopillars. Journal of Applied Physics, 2004, 95, 6771-6773.	1.1	7
46	Current-induced magnetization switching in permalloy-based nanopillars with Cu, Ag, and Au. Journal of Applied Physics, 2005, 97, 10C706.	1.1	7
47	Current-driven switching in magnetic multilayer nanopillars (invited). Journal of Applied Physics, 2004, 95, 7429-7434.	1.1	5
48	Sensitivity of Ag/Al interface specific resistances to interfacial intermixing. Journal of Applied Physics, 2009, 105, .	1.1	4
49	Dilution refrigerator still with 4He film flow suppression. Review of Scientific Instruments, 1975, 46, 1578-1581.	0.6	3
50	Effect of asymmetric leads on critical switching current in magnetic nanopillars. Applied Physics Letters, 2006, 89, 082513.	1.5	2
51	Low frequency magnetization excitations in magnetic nanopillars induced by a dc spin-polarized current. Journal of Applied Physics, 2009, 105, 07D122.	1.1	2
52	Conduction electron scattering and spin-flipping at sputtered Al/Cu Interfaces. Journal of Applied Physics, 2011, 109, .	1.1	2
53	Spin transport at interfaces in magnetic multilayers. Journal of Applied Physics, 2006, 99, 08G504.	1.1	1