

J S Jiang

List of Publications by Year in descending order

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124
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124
docs citations

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times ranked

7079
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Hall Effect in a Topological Insulator Interfaced with a Magnetic Insulator. Nano Letters, 2021, 21, 84-90.	9.1	28
2	Two-dimensional superconductivity and anisotropic transport at KTaO ₃ (111) interfaces. Science, 2021, 371, 716-721.	12.6	136
3	Giant Topological Hall Effect in van der Waals Heterostructures of CrTe ₂ /Bi ₂ Te ₃ . ACS Nano, 2021, 15, 15710-15719.	14.6	34
4	Superconductivity in Y ₄ RuGe ₈ with a Vacancy-Ordered CeNiSi ₂ -Type Superstructure. Chemistry of Materials, 2021, 33, 7839-7847.	6.7	3
5	Electric field control of magnon spin currents in an antiferromagnetic insulator. Science Advances, 2021, 7, eabg1669.	10.3	12
6	Fermi surface topology and nontrivial Berry phase in the flat-band semimetal Pd ₃ Pb. Physical Review B, 2020, 101, .	3.2	1
7	Multiferroic behavior in EuTiO_3 films constrained by symmetry. Physical Review B, 2020, 101, .	3.2	4
8	Observation of an antiferromagnetic quantum critical point in high-purity LaNiO ₃ . Nature Communications, 2020, 11, 1402.	12.8	16
9	Large anomalous Nernst and inverse spin-Hall effects in epitaxial thin films of kagome semimetal Mn_3Sn . Physical Review Materials, 2020, 4, .	2.4	15
10	Competing magnetic phases and fluctuation-driven scalar spin chirality in the kagome metal YMn ₆ Sn ₆ . Science Advances, 2020, 6, .	10.3	103
11	A New Three-Dimensional Subsulfide Ir ₂ In ₈ S with Dirac Semimetal Behavior. Journal of the American Chemical Society, 2019, 141, 19130-19137.	13.7	26
12	Magnetization switching using topological surface states. Science Advances, 2019, 5, eaaw3415.	10.3	65
13	Probing short-range magnetic order in a geometrically frustrated magnet by means of the spin Seebeck effect. Physical Review B, 2018, 98, .	3.2	19
14	Large anomalous Hall effect in the chiral-lattice antiferromagnet CoNb ₃ S ₆ . Nature Communications, 2018, 9, 3280.	12.8	102
15	Anisotropic angular magnetoresistance and Fermi surface topology of the candidate novel topological metal Pd_3Mn . Physical Review Materials, 2018, 2, .	2.4	12
16	Magnetic vortex nucleation/annihilation in artificial-ferrimagnet microdisks. Journal of Applied Physics, 2017, 122, 083903.	2.5	5
17	Origin of the extremely large magnetoresistance in the semimetal YSb. Physical Review B, 2017, 96, .	3.2	49
18	Magnetization reversal in Py/Gd heterostructures. Physical Review B, 2017, 96, .	3.2	18

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19	Magnetoresistive detection of strongly pinned uncompensated magnetization in antiferromagnetic FeMn. Physical Review B, 2017, 95, .	3.2	8
20	Element-resolved magnetism across the temperature- and pressure-induced spin reorientation in MnBi. Physical Review B, 2016, 94, .	3.2	6
21	Spin valve with non-collinear magnetization configuration imprinted by a static magnetic field. AIP Advances, 2016, 6, 056107.	1.3	2
22	Antiferromagnetic Spin Seebeck Effect. Physical Review Letters, 2016, 116, 097204.	7.8	248
23	Spin-orbit torque-assisted switching in magnetic insulator thin films with perpendicular magnetic anisotropy. Nature Communications, 2016, 7, 12688.	12.8	85
24	Mesoscopic magnetism and superconductivity. MRS Bulletin, 2015, 40, 925-932.	3.5	7
25	Magnetization processes in core/shell exchange-spring structures. Journal of Applied Physics, 2015, 117, 17A734.	2.5	2
26	Rational design of the exchange-spring permanent magnet. Journal of Physics Condensed Matter, 2014, 26, 064214.	1.8	48
27	Unanticipated Proximity Behavior in Ferromagnet-Superconductor Heterostructures with Controlled Magnetic Noncollinearity. Physical Review Letters, 2013, 110, 177001.	7.8	22
28	Cross-linked Heterogeneous Nanoparticles as Bifunctional Probe. Chemistry of Materials, 2012, 24, 2423-2425.	6.7	17
29	Noncollinear Fe spin structure in (Sm-Co)/Fe exchange-spring bilayers: Layer-resolved μ -X-ray magnetic circular dichroism spectroscopy and electronic structure calculations. Physical Review B, 2012, 85, .	3.2	31
30	Charge-magnetic interference resonant scattering studies of ferromagnetic crystals and thin films. European Physical Journal: Special Topics, 2012, 208, 141-155.	2.6	7
31	Magnetic structure in Fe/Sm-Co exchange spring bilayers with intermixed interfaces. Physical Review B, 2011, 83, .	3.2	33
32	Surfactant-Induced Postsynthetic Modulation of Pd Nanoparticle Crystallinity. Nano Letters, 2011, 11, 1614-1617.	9.1	98
33	Direct Determination of Energy Level Alignment and Charge Transport at Metal/Alq ₃ Interface via Ballistic Electron Emission Spectroscopy. Physical Review Letters, 2011, 106, 156807.	7.8	26
34	Application of polarized neutron reflectometry and X-ray resonant magnetic reflectometry for determining the inhomogeneous magnetic structure in Fe/Gd multilayers. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1471-1473.	0.6	0
35	Complementary polarized neutron and resonant x-ray magnetic reflectometry measurements in Fe/Gd heterostructures: Case of inhomogeneous intralayer magnetic structure. Physical Review B, 2009, 79, .	3.2	42
36	Stress-induced large Curie temperature enhancement in Fe _{1-x} Gd _x alloy. Physical Review B, 2009, 80, .	3.2	65

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37	The effect of ion irradiation and annealing on exchange spring magnets. Journal of Applied Physics, 2009, 105, 023902.	2.5	7
38	Microstructure analysis of a SmCo/Fe exchange spring bilayer. Applied Physics Letters, 2008, 93, .	3.3	35
39	Asymmetric ferromagnet-superconductor-ferromagnet switch. Physical Review B, 2008, 77, .	3.2	20
40	Element-specific recoil loops in Sm ²⁺ /Co ²⁺ /Fe exchange-spring magnets. Journal of Applied Physics, 2008, 103, .	2.5	9
41	Net Mn moment due to canted spins at SrRuO ₃ /SrMnO ₃ interfaces. Journal of Applied Physics, 2008, 103, 07B517.	2.5	7
42	Absence of spin transport in the organic semiconductor Alq ₃ . Physical Review B, 2008, 77, .	3.2	101
43	Non-local spin injection in lateral spin valves. Journal Physics D: Applied Physics, 2007, 40, 1280-1284.	2.8	42
44	Origin of recoil hysteresis loops in Sm ²⁺ /Co ²⁺ /Fe exchange-spring magnets. Applied Physics Letters, 2007, 91, .	3.3	57
45	Ferromagnetic Mn moments at SrRuO ₃ /SrMnO ₃ interfaces. Applied Physics Letters, 2007, 91, .	3.3	19
46	Controlled interface profile in Sm ²⁺ /Co ²⁺ /Fe exchange-spring magnets. Applied Physics Letters, 2007, 91, .	3.3	52
47	Surface spin-flop transition in a uniaxial antiferromagnetic Fe/Cr superlattice induced by a magnetic field of arbitrary direction. Journal of Physics Condensed Matter, 2007, 19, 136001.	1.8	4
48	Surface spin-flop transition in a uniaxial antiferromagnetic Fe/Cr superlattice induced by a magnetic field of arbitrary direction. Journal of Physics Condensed Matter, 2007, 19, 479003.	1.8	1
49	Role of diffused Co atoms in improving effective exchange coupling in Sm ²⁺ /Co ²⁺ /Fe spring magnets. Physical Review B, 2007, 75, .	3.2	67
50	Dependence of exchange coupling interaction on micromagnetic constants in hard/soft magnetic bilayer systems. Physical Review B, 2007, 75, .	3.2	36
51	Twisted magnetization states near the compensation temperature of Fe ²⁺ /Gd multilayers: Anisotropy and surface-termination effects. Physical Review B, 2006, 73, .	3.2	19
52	Effect of Ligand-Metal Interactions on the Growth of Transition-Metal and Alloy Nanoparticles. Chemistry of Materials, 2006, 18, 5203-5212.	6.7	69
53	Hard-axis magnetization behavior and the surface spin-flop transition in antiferromagnetic Fe ²⁺ /Cr(100) superlattices. Physical Review B, 2006, 73, .	3.2	15
54	Effect of hard layer demagnetization on the magnetization reversal of epitaxial Fe/SmCo spring magnets. , 2006, , .		0

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55	First-Order Reversal Curve Studies of Magnetization Reversal in Prototype Recording Media. , 2006, , .		0
56	Recoil hysteresis of Sm ²⁺ /Co ²⁺ /Fe exchange-spring bilayers. Journal of Applied Physics, 2005, 98, 113906.	2.5	39
57	Ligand Effect on the Growth and the Digestion of Co Nanocrystals. Journal of the American Chemical Society, 2005, 127, 4126-4127.	13.7	107
58	Anisotropy dependence of irreversible switching in Fe ²⁺ /SmCo and FeNi ²⁺ /FePt exchange spring magnet films. Applied Physics Letters, 2005, 86, 262503.	3.3	134
59	A new approach for improving exchange-spring magnets. Journal of Applied Physics, 2005, 97, 10K311.	2.5	78
60	Temperature evolution of the Gd magnetization profile in strongly coupled Gd ²⁺ /Fe multilayers. Physical Review B, 2004, 70, .	3.2	35
61	Spin injection, diffusion, and detection in lateral spin-valves. Applied Physics Letters, 2004, 85, 6218-6220.	3.3	129
62	Nuclear Resonant Magnetometry and its Application to Fe/Cr Multilayers. Physical Review Letters, 2004, 93, 037201.	7.8	35
63	Improving exchange-spring nanocomposite permanent magnets. Applied Physics Letters, 2004, 85, 5293-5295.	3.3	119
64	ESR Studies on Sm-Co/Fe Exchange-Spring Magnets. , 2004, , 229-237.		0
65	Observation of the Fe spin spiral structure in Fe/Sm-Co exchange-spring bilayers by Mössbauer spectroscopy. Physical Review B, 2003, 68, .	3.2	26
66	Hard x-ray magnetic circular dichroism study of a surface-driven twisted state in Gd/Fe multilayers. Journal of Applied Physics, 2003, 93, 6507-6509.	2.5	14
67	Model study of soft x-ray spectroscopy techniques for observing magnetic circular dichroism in buried SmCo magnetic films. Journal of Applied Physics, 2003, 93, 2002-2008.	2.5	1
68	Remagnetization processes in SmCo/NdCo exchange springs. Journal of Applied Physics, 2003, 93, 6486-6488.	2.5	3
69	Magnetization-orientation dependence of the superconducting transition temperature and magnetoresistance in the ferromagnet-superconductor-ferromagnet trilayer system. Journal of Applied Physics, 2003, 93, 7696-7698.	2.5	7
70	Nature of inhomogeneous magnetic state in artificial Fe/Gd ferrimagnetic multilayers. Physical Review B, 2003, 67, .	3.2	22
71	Exchange coupling in epitaxial Sm ²⁺ /Co(111̄,00)/Nd ²⁺ /Co exchange-spring bilayers. Journal of Applied Physics, 2003, 93, 8122-8124.	2.5	6
72	Superconducting transition and vortex pinning in Nb films patterned with nanoscale hole arrays. Physical Review B, 2002, 66, .	3.2	93

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73	Magnetization-Orientation Dependence of the Superconducting Transition Temperature in the Ferromagnet-Superconductor-Ferromagnet System:CuNi/Nb/CuNi. Physical Review Letters, 2002, 89, 267001.	7.8	306
74	Spin Flop Transition in a Finite Antiferromagnetic Superlattice: Evolution of the Magnetic Structure. Physical Review Letters, 2002, 89, 127203.	7.8	77
75	Rotational hysteresis of exchange-spring magnets. Journal Physics D: Applied Physics, 2002, 35, 2339-2343.	2.8	13
76	Mössbauer effect study of the Fe spin structure in exchange-bias and exchange-spring systems. Journal Physics D: Applied Physics, 2002, 35, 2352-2358.	2.8	9
77	Exchange-coupled Sm ²⁺ /Co/Nd ²⁺ /Co nanomagnets: correlation between soft phase anisotropy and exchange field. Applied Physics Letters, 2002, 81, 2029-2031.	3.3	74
78	Enhanced Interfacial Magnetic Coupling of Gd/Fe Multilayers. Physical Review Letters, 2001, 87, 207201.	7.8	109
79	Disorder-driven hysteresis-loop criticality in Co/CoO films. Journal of Applied Physics, 2001, 89, 7466-7468.	2.5	8
80	<title>Imaging buried magnetic domains using hard x rays</title>. , 2001, 4499, 1.		5
81	Field Induced Biquadratic Exchange in Hard/Soft Ferromagnetic Bilayers. Physical Review Letters, 2001, 86, 4386-4389.	7.8	50
82	Magnetic stability in exchange-spring and exchange-bias systems after multiple switching cycles. Journal of Applied Physics, 2001, 89, 6817-6819.	2.5	8
83	Magnetic imaging of a buried SmCo layer in a spring magnet. Journal of Applied Physics, 2001, 89, 7165-7167.	2.5	12
84	Reversal modes of exchange-spring magnets revealed by torque magnetometry. Applied Physics Letters, 2001, 79, 3992-3994.	3.3	19
85	Hysteresis in layered spring magnets. Discrete and Continuous Dynamical Systems - Series B, 2001, 1, 219-232.	0.9	19
86	Anisotropy determination in epitaxial Sm ²⁺ /Co/Fe exchange springs. Journal of Applied Physics, 2000, 87, 6686-6688.	2.5	31
87	Epitaxial hard-soft magnetic heterostructures as model exchange-spring magnets. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 247-256.	0.6	1
88	Intrinsic and extrinsic magnetic properties of the naturally layered manganites. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1239-1246.	2.1	5
89	Magnetic stability of novel exchange coupled systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1269-1272.	2.1	10
90	Temperature dependent anomalous Hall effect in La ²⁺ /Ca ²⁺ /Mn ²⁺ /O films. Journal of Applied Physics, 2000, 87, 5576-5578.	2.5	1

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91	Exchange-bias effect in Fe/Cr(211) double superlattice structures. <i>Physical Review B</i> , 2000, 61, 9653-9656.	3.2	33
92	Exchange bias in Fe/Cr double superlattices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 1264-1268.	2.1	6
93	Switching of the exchange bias in Fe/Cr(211) double-superlattice structures. <i>Applied Physics Letters</i> , 2000, 77, 2222-2224.	3.3	14
94	Experimental Observation of Disorder-Driven Hysteresis-Loop Criticality. <i>Physical Review Letters</i> , 2000, 85, 4176-4179.	7.8	73
95	Oscillation period of the interlayer coupling for epitaxial Fe/Cr(100) and (211) superlattices. <i>Journal of Applied Physics</i> , 1999, 85, 5889-5891.	2.5	22
96	Magnetic configurations in exchange-biased double superlattices. <i>Applied Physics Letters</i> , 1999, 75, 4174-4176.	3.3	41
97	Structural and magnetic studies of fcc Fe films with self-organized lateral modulation on striped Cu(110) substrates. <i>Journal of Applied Physics</i> , 1999, 85, 5285-5287.	2.5	13
98	Soft x-ray absorption of a buried SmCo film utilizing substrate fluorescence detection. <i>Applied Physics Letters</i> , 1999, 74, 3806-3808.	3.3	3
99	Curie Temperature Enhancement and Induced Pd Magnetic Moments for Ultrathin Fe Films Grown on Stepped Pd(001). <i>Physical Review Letters</i> , 1999, 82, 1947-1950.	7.8	48
100	Magnetic properties of ultrathin Fe films grown on stepped W(001) and Pd(001) substrates. <i>Journal of Applied Physics</i> , 1999, 85, 4958-4960.	2.5	15
101	Structure and magnetic properties of exchange-spring SmCo/Co superlattices. <i>Applied Physics Letters</i> , 1998, 72, 380-382.	3.3	115
102	Exchange-spring behavior in epitaxial hard/soft magnetic bilayers. <i>Physical Review B</i> , 1998, 58, 12193-12200.	3.2	452
103	Exchange-spring behavior in epitaxial hard/soft magnetic bilayer films. <i>Journal of Applied Physics</i> , 1998, 83, 6238-6240.	2.5	44
104	Growth and characterization of epitaxial fcc Fe wedges on diamond (100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998, 16, 2326-2329.	2.1	0
105	Magnetic anisotropy of epitaxial Fe films grown on curved W(001) with a graded step density. <i>Physical Review B</i> , 1998, 57, R12713-R12716.	3.2	43
106	Role of intergrowths in the properties of naturally layered manganite single crystals (invited). <i>Journal of Applied Physics</i> , 1998, 83, 6385-6389.	2.5	53
107	Effect of mechanical processing on giant magnetoresistance in melt-spun CoCu ribbons. <i>Journal of Applied Physics</i> , 1997, 82, 4435-4438.	2.5	3
108	Proximity and coupling effects in superconductor/ferromagnet multilayers (invited). <i>Journal of Applied Physics</i> , 1997, 81, 5358-5363.	2.5	25

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109	High coercivity, epitaxial Sm ²⁺ Co films with uniaxial in-plane anisotropy. Applied Physics Letters, 1997, 71, 1579-1581.	3.3	112
110	Superconducting transition in Nb/Gd/Nb trilayers. Physical Review B, 1996, 54, 6119-6121.	3.2	49
111	Magnetization and finite-size effects in Gd/W multilayers. Journal of Applied Physics, 1996, 79, 5615.	2.5	49
112	Oscillatory Superconducting Transition Temperature in Nb/Gd Multilayers. Physical Review Letters, 1995, 74, 314-317.	7.8	371
113	Thermal and thermoelectric properties of granular Co-Ag solids. Journal of Magnetism and Magnetic Materials, 1994, 136, 221-228.	2.3	10
114	Giant Negative Magnetoresistance and Other Magneto-Transport Properties in Granular Magnetic Systems. , 1994, , 1071-1076.		0
115	Fabrication and Magnetic Properties of Arrays of Metallic Nanowires. Science, 1993, 261, 1316-1319.	12.6	1,169
116	Giant negative magnetoresistance in granular ferromagnetic systems (invited). Journal of Applied Physics, 1993, 73, 5309-5314.	2.5	332
117	Magnetothermal transport properties of granular Co-Ag solids. Physical Review B, 1993, 48, 638-641.	3.2	40
118	Giant Magnetoresistance in Granular Magnetic Systems. NATO ASI Series Series B: Physics, 1993, , 381-388.	0.2	0
119	Extraordinary Hall effect and giant magnetoresistance in the granular Co-Ag system. Physical Review Letters, 1992, 69, 3220-3223.	7.8	238
120	Magnetic properties and giant magnetoresistance of granular permalloy in silver. Applied Physics Letters, 1992, 61, 2362-2364.	3.3	64
121	Giant magnetoresistance in the granular Co-Ag system. Physical Review B, 1992, 46, 9266-9269.	3.2	189
122	Structure of Co _x Ag _{100-x} and Its Relation to GMR. Materials Research Society Symposia Proceedings, 1992, 286, 197.	0.1	3
123	Giant magnetoresistance in nonmultilayer magnetic systems. Physical Review Letters, 1992, 68, 3749-3752.	7.8	1,625