

# Stuart Parkin

## List of Publications by Citations

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606

papers

48,894

citations

93

h-index

208

g-index

648

ext. papers

54,503

ext. citations

7.7

avg, IF

7.67

L-index

#	Paper	IF	Citations
606	Magnetic domain-wall racetrack memory. <i>Science</i> , <b>2008</b> , 320, 190-4	33.3	3235
605	Giant tunnelling magnetoresistance at room temperature with MgO (100) tunnel barriers. <i>Nature Materials</i> , <b>2004</b> , 3, 862-7	27	2462
604	Oscillations in exchange coupling and magnetoresistance in metallic superlattice structures: Co/Ru, Co/Cr, and Fe/Cr. <i>Physical Review Letters</i> , <b>1990</b> , 64, 2304-2307	7.4	2400
603	Giant magnetoresistive in soft ferromagnetic multilayers. <i>Physical Review B</i> , <b>1991</b> , 43, 1297-1300	3.3	1561
602	Simple rules for the understanding of Heusler compounds. <i>Progress in Solid State Chemistry</i> , <b>2011</b> , 39, 1-50	8	1341
601	Oscillatory magnetic exchange coupling through thin copper layers. <i>Physical Review Letters</i> , <b>1991</b> , 66, 2152-2155	7.4	1199
600	Exchange-biased magnetic tunnel junctions and application to nonvolatile magnetic random access memory (invited). <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 5828-5833	2.5	978
599	Systematic variation of the strength and oscillation period of indirect magnetic exchange coupling through the 3d, 4d, and 5d transition metals. <i>Physical Review Letters</i> , <b>1991</b> , 67, 3598-3601	7.4	920
598	Chiral spin torque at magnetic domain walls. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 527-33	28.7	873
597	Anomalous disappearance of high-T <sub>c</sub> superconductivity at high hole concentration in metallic La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>Physical Review Letters</i> , <b>1988</b> , 61, 1127-1130	7.4	826
596	Suppression of metal-insulator transition in VO <sub>2</sub> by electric field-induced oxygen vacancy formation. <i>Science</i> , <b>2013</b> , 339, 1402-5	33.3	767
595	Higher-order topological insulators. <i>Science Advances</i> , <b>2018</b> , 4, eaat0346	14.3	558
594	Current-controlled magnetic domain-wall nanowire shift register. <i>Science</i> , <b>2008</b> , 320, 209-11	33.3	541
593	Giant magnetoresistance in antiferromagnetic Co/Cu multilayers. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 2710-2712	3.4	534
592	Magnetotransport properties of magnetically soft spin-valve structures (invited). <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 4774-4779	2.5	491
591	Quenching of Magnetoresistance by Hot Electrons in Magnetic Tunnel Junctions. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3744-3747	7.4	465
590	Memory on the racetrack. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 195-8	28.7	460

589	Magnetically engineered spintronic sensors and memory. <i>Proceedings of the IEEE</i> , <b>2003</b> , 91, 661-680	14.3	459
588	Bulk superconductivity at 125 K in $Tl_2Ca_2Ba_2Cu_3O_x$ . <i>Physical Review Letters</i> , <b>1988</b> , 60, 2539-2542	7.4	450
587	Superconductivity in Weyl semimetal candidate $MoTe_2$ . <i>Nature Communications</i> , <b>2016</b> , 7, 11038	17.4	442
586	Surface, interface, and thin-film magnetism. <i>Journal of Materials Research</i> , <b>1990</b> , 5, 1299-1340	2.5	431
585	Dirac cone protected by non-symmorphic symmetry and three-dimensional Dirac line node in $ZrSiS$ . <i>Nature Communications</i> , <b>2016</b> , 7, 11696	17.4	423
584	Domain-wall velocities of up to $750 \text{ m s}^{-1}$ driven by exchange-coupling torque in synthetic antiferromagnets. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 221-6	28.7	419
583	Microstructured magnetic tunnel junctions (invited). <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 3741-3746	2.5	417
582	Spintronics. <i>Annual Review of Condensed Matter Physics</i> , <b>2010</b> , 1, 71-88	19.7	394
581	$Tl_1Ca_n-1Cu_nO_{2n+3}$ ( $n=1,2,3$ ): A new class of crystal structures exhibiting volume superconductivity at up to. <i>Physical Review Letters</i> , <b>1988</b> , 61, 750-753	7.4	385
580	Oscillatory dependence of current-driven magnetic domain wall motion on current pulse length. <i>Nature</i> , <b>2006</b> , 443, 197-200	50.4	375
579	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. <i>Nature Physics</i> , <b>2013</b> , 9, 661-666	16.2	365
578	Highly spin-polarized room-temperature tunnel injector for semiconductor spintronics using $MgO(100)$ . <i>Physical Review Letters</i> , <b>2005</b> , 94, 056601	7.4	363
577	Role of transparency of platinum-ferromagnet interfaces in determining the intrinsic magnitude of the spin Hall effect. <i>Nature Physics</i> , <b>2015</b> , 11, 496-502	16.2	360
576	Large anomalous Hall effect driven by a nonvanishing Berry curvature in the noncolinear antiferromagnet $Mn_3Ge$ . <i>Science Advances</i> , <b>2016</b> , 2, e1501870	14.3	345
575	Magnetic antiskyrmions above room temperature in tetragonal Heusler materials. <i>Nature</i> , <b>2017</b> , 548, 561-566	50.4	344
574	Origin of enhanced magnetoresistance of magnetic multilayers: Spin-dependent scattering from magnetic interface states. <i>Physical Review Letters</i> , <b>1993</b> , 71, 1641-1644	7.4	338
573	Properties that change as superconductivity disappears at high-doping concentrations in $La_{2-x}Sr_xCuO_4$ . <i>Physical Review B</i> , <b>1989</b> , 40, 8872-8877	3.3	327
572	Dependence of current and field driven depinning of domain walls on their structure and chirality in permalloy nanowires. <i>Physical Review Letters</i> , <b>2006</b> , 97, 207205	7.4	314

571	Oxygen ordering, phase separation and the 60-K and 90-K plateaus in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Nature</i> , <b>1989</b> , 340, 619-621	50.4	277
570	Superconductivity in a New Family of Organic Conductors. <i>Physical Review Letters</i> , <b>1983</b> , 50, 270-273	7.4	274
569	Signature of type-II Weyl semimetal phase in MoTe. <i>Nature Communications</i> , <b>2017</b> , 8, 13973	17.4	273
568	Direct observation of the coherent precession of magnetic domain walls propagating along permalloy nanowires. <i>Nature Physics</i> , <b>2007</b> , 3, 21-25	16.2	272
567	Influence of current on field-driven domain wall motion in permalloy nanowires from time resolved measurements of anisotropic magnetoresistance. <i>Physical Review Letters</i> , <b>2006</b> , 96, 197207	7.4	259
566	Minimum field strength in precessional magnetization reversal. <i>Science</i> , <b>1999</b> , 285, 864-7	33.3	250
565	Perpendicular exchange bias of Co/Pt multilayers. <i>Physical Review Letters</i> , <b>2001</b> , 87, 087202	7.4	245
564	Evidence for superconductivity in La <sub>2</sub> CuO. <i>Physical Review Letters</i> , <b>1987</b> , 58, 2482-2485	7.4	244
563	Model Family of high-temperature superconductors: Tl <sub>m</sub> Ca <sub>n</sub> -1Ba <sub>2</sub> Cu <sub>n</sub> O <sub>2(n+1)+m</sub> (m=1,2; n=1,2,3). <i>Physical Review B</i> , <b>1988</b> , 38, 6531-6537	3.3	241
562	Magnetic Weyl semimetal phase in a Kagomé crystal. <i>Science</i> , <b>2019</b> , 365, 1282-1285	33.3	238
561	Current driven domain wall velocities exceeding the spin angular momentum transfer rate in permalloy nanowires. <i>Physical Review Letters</i> , <b>2007</b> , 98, 037204	7.4	223
560	Development of the magnetic tunnel junction MRAM at IBM: From first junctions to a 16-Mb MRAM demonstrator chip. <i>IBM Journal of Research and Development</i> , <b>2006</b> , 50, 5-23	2.5	219
559	Enhanced spin-orbit torques by oxygen incorporation in tungsten films. <i>Nature Communications</i> , <b>2016</b> , 7, 10644	17.4	209
558	Negative Domain Wall Contribution to the Resistivity of Microfabricated Fe Wires. <i>Physical Review Letters</i> , <b>1998</b> , 80, 5639-5642	7.4	209
557	Superconductivity above 90 K in the compound YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> : Structural, transport, and magnetic properties. <i>Physical Review B</i> , <b>1987</b> , 35, 7242-7244	3.3	209
556	Oscillations in giant magnetoresistance and antiferromagnetic coupling in [Ni <sub>81</sub> Fe <sub>19</sub> /Cu]N multilayers. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 512-514	3.4	199
555	Magnetic domain wall motion triggered by an electric current. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2617-2619	3.4	194
554	Induced spin polarization in Cu spacer layers in Co/Cu multilayers. <i>Physical Review Letters</i> , <b>1994</b> , 72, 1112-1115	7.4	193

553	Magnetization Reversal in Micron-Sized Magnetic Thin Films. <i>Physical Review Letters</i> , <b>1998</b> , 81, 4512-4515.	5.4	186
552	Separation of enantiomers by their enantiospecific interaction with achiral magnetic substrates. <i>Science</i> , <b>2018</b> , 360, 1331-1334	33.3	183
551	Spin polarization of tunneling current from ferromagnet/Al <sub>2</sub> O <sub>3</sub> interfaces using copper-doped aluminum superconducting films. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 720-722	3.4	183
550	Spin engineering: Direct determination of the Ruderman-Kittel-Kasuya-Yosida far-field range function in ruthenium. <i>Physical Review B</i> , <b>1991</b> , 44, 7131-7134	3.3	180
549	Chiral spin torque arising from proximity-induced magnetization. <i>Nature Communications</i> , <b>2014</b> , 5, 3910	17.4	178
548	Design scheme of new tetragonal Heusler compounds for spin-transfer torque applications and its experimental realization. <i>Advanced Materials</i> , <b>2012</b> , 24, 6283-7	24	178
547	Research frontiers in magnetic materials at soft X-ray synchrotron radiation facilities. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 207, 7-44	2.8	177
546	Dynamics of magnetic domain walls under their own inertia. <i>Science</i> , <b>2010</b> , 330, 1810-3	33.3	175
545	Topological Weyl semimetals in the chiral antiferromagnetic materials Mn <sub>3</sub> Ge and Mn <sub>3</sub> Sn. <i>New Journal of Physics</i> , <b>2017</b> , 19, 015008	2.9	170
544	Synthetic Antiferromagnetic Spintronics. <i>Nature Physics</i> , <b>2018</b> , 14, 217-219	16.2	165
543	Giant Magnetoresistance in Magnetic Nanostructures. <i>Annual Review of Materials Research</i> , <b>1995</b> , 25, 357-388		163
542	3d transition-metal intercalates of the niobium and tantalum dichalcogenides. I. Magnetic properties. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1980</b> , 41, 65-93		159
541	Spin-valve effect in soft ferromagnetic sandwiches. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 93, 101-104	2.8	153
540	Dramatic enhancement of interlayer exchange coupling and giant magnetoresistance in Ni <sub>81</sub> Fe <sub>19</sub> /Cu multilayers by addition of thin Co interface layers. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 1358-1360	3.4	152
539	Metallic, but not superconducting, La-Ba (and La-Sr) copper oxides. <i>Physical Review Letters</i> , <b>1988</b> , 60, 542-545	7.4	150
538	Giant facet-dependent spin-orbit torque and spin Hall conductivity in the triangular antiferromagnet IrMn. <i>Science Advances</i> , <b>2016</b> , 2, e1600759	14.3	135
537	Superconductivity above liquid nitrogen temperature: preparation and properties of a family of perovskite-based superconductors. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 2848-2849	16.4	131
536	Resonant amplification of magnetic domain-wall motion by a train of current pulses. <i>Science</i> , <b>2007</b> , 315, 1553-6	33.3	130

535	NbI Orange-peel Coupling in magnetic tunneling junction devices. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2373-2375	3.4	129
534	Heusler Compounds A Material Class With Exceptional Properties. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 367-373	2	127
533	Butterfly magnetoresistance, quasi-2D Dirac Fermi surface and topological phase transition in ZrSiS. <i>Science Advances</i> , <b>2016</b> , 2, e1601742	14.3	124
532	Thermally assisted magnetization reversal in submicron-sized magnetic thin films. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5419-22	7.4	123
531	Observation of edge transport in the disordered regime of topologically insulating InAs/GaSb quantum wells. <i>Physical Review Letters</i> , <b>2014</b> , 112, 026602	7.4	122
530	Low-frequency magnetic noise in micron-scale magnetic tunnel junctions. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3289-92	7.4	121
529	Basics and prospective of magnetic Heusler compounds. <i>APL Materials</i> , <b>2015</b> , 3, 041518	5.7	118
528	Superconducting Tl-Ca-Ba-Cu-O thin films with zero resistance at temperatures of up to 120 K. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 329-331	3.4	117
527	Shape-anisotropy-controlled magnetoresistive response in magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 2610-2612	3.4	114
526	The magnetic stability of spin-dependent tunneling devices. <i>Science</i> , <b>1998</b> , 281, 797-9	33.3	114
525	Domain wall resistivity in epitaxial thin film microstructures. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, R461-R488	1.8	112
524	Weyl Semimetals as Hydrogen Evolution Catalysts. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606202	24	107
523	Electrical noise in hysteretic ferromagnet/insulator/ferromagnet tunnel junctions. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 600-602	3.4	105
522	Enhanced interface perpendicular magnetic anisotropy in Ta CoFeB MgO using nitrogen doped Ta underlayers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 242405	3.4	101
521	Domain wall trajectory determined by its fractional topological edge defects. <i>Nature Physics</i> , <b>2013</b> , 9, 505-511	16.2	98
520	Probing vortex-core dynamics using current-induced resonant excitation of a trapped domain wall. <i>Nature Physics</i> , <b>2008</b> , 4, 368-372	16.2	98
519	Room temperature operation of a high output current magnetic tunnel transistor. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3364-3366	3.4	97
518	Low-energy electron-diffraction crystallographic determination for the Cu(110) <sub>2</sub> x 1-O surface structure. <i>Physical Review B</i> , <b>1990</b> , 41, 5432-5435	3.3	97

517	Ferromagnetic resonance studies of exchange-biased Permalloy thin films. <i>Physical Review B</i> , <b>1988</b> , 38, 6847-6854	3.3	97
516	Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KVSb. <i>Science Advances</i> , <b>2020</b> , 6, eabb6003	14.3	97
515	Magnetic disorder in the exchange bias bilayered FeNi-FeMn system. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1986</b> , 54-57, 801-802	2.8	96
514	Giant magnetoresistance and enhanced antiferromagnetic coupling in highly oriented Co/Cu (111) superlattices. <i>Physical Review B</i> , <b>1992</b> , 46, 9262-9265	3.3	94
513	Crystallography and microstructure of Tl-Ca-Ba-Cu-O superconducting oxides. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 432-434	3.4	93
512	Studies of coupled metallic magnetic thin-film trilayers. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 958-972	2.5	91
511	The 2020 skyrmionics roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 363001	3	90
510	Mn <sub>x</sub> Pt <sub>1-x</sub> : A new exchange bias material for Permalloy. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 4986-4988	2.5	90
509	Bias voltage dependence of tunneling anisotropic magnetoresistance in magnetic tunnel junctions with MgO and Al <sub>2</sub> O <sub>3</sub> tunnel barriers. <i>Physical Review Letters</i> , <b>2007</b> , 99, 226602	7.4	89
508	Fluctuation-dissipation relation for giant magnetoresistive 1/f noise. <i>Physical Review B</i> , <b>1993</b> , 48, 16156-16159	3.6	89
507	Spin-torque switching efficiency in CoFeB-MgO based tunnel junctions. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	88
506	Magnetoresistance, micromagnetism, and domain-wall scattering in epitaxial hcp Co films. <i>Physical Review B</i> , <b>1999</b> , 59, 11914-11918	3.3	88
505	Optical detection of hot-electron spin injection into GaAs from a magnetic tunnel transistor source. <i>Physical Review Letters</i> , <b>2003</b> , 90, 256603	7.4	87
504	Field cooling induced changes in the antiferromagnetic structure of NiO films. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5389-92	7.4	86
503	Towards quantitative electron holography of magnetic thin films using in situ magnetization reversal. <i>Ultramicroscopy</i> , <b>1998</b> , 74, 61-73	3.1	85
502	Current Induced Tilting of Domain Walls in High Velocity Motion along Perpendicularly Magnetized Micron-Sized Co/Ni/Co Racetracks. <i>Applied Physics Express</i> , <b>2012</b> , 5, 093006	2.4	84
501	Origin of the Tetragonal Ground State of Heusler Compounds. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	82
500	Extremely long quasiparticle spin lifetimes in superconducting aluminium using MgO tunnel spin injectors. <i>Nature Materials</i> , <b>2010</b> , 9, 586-93	27	82

499	Epitaxial growth of Pt on basal-plane sapphire: a seed film for artificially layered magnetic metal structures. <i>Journal of Crystal Growth</i> , <b>1993</b> , 133, 47-58	1.6	82
498	Domain-wall induced coupling between ferromagnetic layers. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1816-9	7.4	80
497	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. <i>Scientific Reports</i> , <b>2016</b> , 6, 22890	4.9	80
496	Carbon-Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801258	21.8	80
495	Heusler 4.0: Tunable Materials. <i>Annual Review of Materials Research</i> , <b>2017</b> , 47, 247-270	12.8	79
494	3d transition-metal intercalates of the niobium and tantalum dichalcogenides. II. Transport properties. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1980</b> , 41, 95-112		78
493	Symmetry demanded topological nodal-line materials. <i>Advances in Physics: X</i> , <b>2018</b> , 3, 1414631	5.1	77
492	Temperature independence of the spin-injection efficiency of a MgO-based tunnel spin injector. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 262503	3.4	77
491	Giant reversible, facet-dependent, structural changes in a correlated-electron insulator induced by ionic liquid gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1013-8	11.5	76
490	Giant magnetoresistance and Co-cluster structure in phase-separated Co-Cu granular alloys. <i>Physical Review B</i> , <b>1993</b> , 48, 16810-16813	3.3	76
489	Multiple Dirac cones at the surface of the topological metal LaBi. <i>Nature Communications</i> , <b>2017</b> , 8, 13942	7.4	75
488	Suppression of ionic liquid gate-induced metallization of SrTiO <sub>3</sub> (001) by oxygen. <i>Nano Letters</i> , <b>2013</b> , 13, 4675-8	11.5	75
487	Spin-dependent hot electron transport in Ni <sub>81</sub> Fe <sub>19</sub> and Co <sub>84</sub> Fe <sub>16</sub> films on GaAs(001). <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	75
486	Finite tunneling spin polarization at the compensation point of rare-earth-metal-transition-metal alloys. <i>Physical Review Letters</i> , <b>2005</b> , 95, 047202	7.4	74
485	Superconductivity in the family of organic salts based on the tetramethyltetraselenafulvalene (TMTSF) molecule: (TMTSF) <sub>2</sub> X (X=ClO <sub>4</sub> , PF <sub>6</sub> , AsF <sub>6</sub> , SbF <sub>6</sub> , TaF <sub>6</sub> ). <i>Journal of Physics C: Solid State Physics</i> , <b>1981</b> , 14, 5305-5326		74
484	On the exchange biasing through a nonmagnetic spacer layer. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 5061-5063	5.6	73
483	Bias voltage and temperature dependence of magnetotunneling effect. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 6515-6517	2.5	73
482	Disappearance of high temperature superconductivity induced by high carrier concentrations. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 162-164, 291-295	1.3	73



481	Magnetic-field-induced transition and quantum oscillations in tetramethyltetraselenafulvalenium perrhenate, (TMTSF) <sub>2</sub> ReO <sub>4</sub> . <i>Physical Review Letters</i> , <b>1986</b> , 56, 667-670	7.4	73
480	Antiferromagnetic interlayer exchange coupling in sputtered Fe/Cr multilayers: Dependence on number of Fe layers. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 1473-1475	3.4	71
479	Temperature dependence of current-induced magnetization switching in spin valves with a ferrimagnetic CoGd free layer. <i>Physical Review Letters</i> , <b>2006</b> , 97, 217202	7.4	69
478	Temperature and bias dependence of magnetoresistance in doped manganite thin film trilayer junctions. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1008-1010	3.4	69
477	Determination of the Structure of [Os(.eta.2-H <sub>2</sub> ) <sub>2</sub> en <sub>2</sub> CH <sub>3</sub> CO <sub>2</sub> ]PF <sub>6</sub> by X-ray and Neutron Diffraction. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 4352-4356	16.4	69
476	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. <i>Scientific Reports</i> , <b>2016</b> , 6, 23547	4.9	67
475	Giant magnetocurrent exceeding 3400% in magnetic tunnel transistors with spin-valve base layers. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 951-953	3.4	67
474	Lattice strain-enhanced exsolution of nanoparticles in thin films. <i>Nature Communications</i> , <b>2019</b> , 10, 147117.4	6.6	66
473	Subnanosecond incubation times for electric-field-induced metallization of a correlated electron oxide. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 453-8	28.7	66
472	Biquadratic exchange coupling in sputtered (100) Fe/Cr/Fe. <i>Physical Review Letters</i> , <b>1996</b> , 76, 4837-4840	7.4	65
471	Aerosol flow reactor production of fine Y <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> powder: Fabrication of superconducting ceramics. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 1622-1624	3.4	64
470	Surface states in bulk single crystal of topological semimetal CoSnS toward water oxidation. <i>Science Advances</i> , <b>2019</b> , 5, eaaw9867	14.3	63
469	Enhanced stochasticity of domain wall motion in magnetic racetracks due to dynamic pinning. <i>Nature Communications</i> , <b>2010</b> , 1, 25	17.4	62
468	Structureless transition and strong localization effects in bis-tetramethyltetrafulvalenium salts. <i>Physical Review B</i> , <b>1985</b> , 31, 3583-3587	3.3	62
467	Anomalous Hall effect in Weyl semimetal half-Heusler compounds RPtBi (R = Gd and Nd). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9140-9144	11.5	61
466	Field-dependent thermoelectric power and thermal conductivity in multilayered and granular giant magnetoresistive systems. <i>Physical Review B</i> , <b>1996</b> , 54, 15273-15283	3.3	61
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