

# Evgeny Tsymbal

## List of Publications by Year in descending order

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254  
papers

18,778  
citations

9786

73  
h-index

14208

128  
g-index

266  
all docs

266  
docs citations

266  
times ranked

13803  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxide Two-Dimensional Electron Gas with High Mobility at Room-Temperature. <i>Advanced Science</i> , 2022, 9, e2105652.	11.2	7
2	Electronic reconstruction at the polar (111)-oriented oxide interface. <i>APL Materials</i> , 2022, 10, .	5.1	2
3	Direct observation of ferroelectricity in two-dimensional MoS <sub>2</sub> . <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	30
4	Ferroelectric Control of Magnetic Skyrmions in Two-Dimensional van der Waals Heterostructures. <i>Nano Letters</i> , 2022, 22, 3349-3355.	9.1	35
5	Tilted spin current generated by the collinear antiferromagnet ruthenium dioxide. <i>Nature Electronics</i> , 2022, 5, 267-274.	26.0	64
6	Tunneling Magnetoresistance in Noncollinear Antiferromagnetic Tunnel Junctions. <i>Physical Review Letters</i> , 2022, 128, .	7.8	35
7	Intrinsic ferroelectricity in Y-doped HfO <sub>2</sub> thin films. <i>Nature Materials</i> , 2022, 21, 903-909.	27.5	66
8	Van der Waals Multiferroic Tunnel Junctions. <i>Nano Letters</i> , 2021, 21, 175-181.	9.1	53
9	Defects in ferroelectric HfO <sub>2</sub> . <i>Nanoscale</i> , 2021, 13, 11635-11678.	5.6	53
10	Perspectives of spin-textured ferroelectrics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 113001.	2.8	53
11	Two-Dimensional Antiferroelectric Tunnel Junction. <i>Physical Review Letters</i> , 2021, 126, 057601.	7.8	52
12	Interfacial Crystal Hall Effect Reversible by Ferroelectric Polarization. <i>Physical Review Applied</i> , 2021, 15, .	3.8	20
13	Interface-engineered electron and hole tunneling. <i>Science Advances</i> , 2021, 7, .	10.3	25
14	Two-dimensional ferroelectricity by design. <i>Science</i> , 2021, 372, 1389-1390.	12.6	35
15	Magnetism in curved geometries. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	29
16	Modulation of Spin-Orbit Torque from SrRuO <sub>3</sub> by Epitaxial-Strain-Induced Octahedral Rotation. <i>Advanced Materials</i> , 2021, 33, e2007114.	21.0	29
17	Resonant band engineering of ferroelectric tunnel junctions. <i>Physical Review B</i> , 2021, 104, .	3.2	10
18	Spin-orbit dependence of anisotropic current-induced spin polarization. <i>Physical Review B</i> , 2021, 104, .	3.2	10

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19	Giant Transport Anisotropy in $\text{ReS}_2$ Revealed via Nanoscale Conducting-Path Control. <i>Physical Review Letters</i> , 2021, 127, 136803.	7.8	11
20	Magnetoelectric Coupling at the Ni/Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Interface. <i>ACS Nano</i> , 2021, 15, 14891-14902.	14.6	11
21	In-plane quasi-single-domain BaTiO <sub>3</sub> via interfacial symmetry engineering. <i>Nature Communications</i> , 2021, 12, 6784.	12.8	16
22	Spin-neutral currents for spintronics. <i>Nature Communications</i> , 2021, 12, 7061.	12.8	63
23	Reversal of the magnetoelectric effect at a ferromagnetic metal/ferroelectric interface induced by metal oxidation. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	7
24	Emerging materials for spin-charge interconversion. <i>APL Materials</i> , 2021, 9, 120401.	5.1	4
25	Transport spin polarization of noncollinear antiferromagnetic antiperovskites. <i>Physical Review Materials</i> , 2021, 5, .	2.4	10
26	Unveiling multiferroic proximity effect in graphene. <i>2D Materials</i> , 2020, 7, 015020.	4.4	7
27	Effects of Strain and Film Thickness on the Stability of the Rhombohedral Phase of $\text{HfO}_2$ . <i>Physical Review Applied</i> , 2020, 14, .	3.8	43
28	Epitaxial antiperovskite/perovskite heterostructures for materials design. <i>Science Advances</i> , 2020, 6, eaba4017.	10.3	18
29	Controlling spin current polarization through non-collinear antiferromagnetism. <i>Nature Communications</i> , 2020, 11, 4671.	12.8	103
30	Insulator-to-conductor transition driven by the Rashba-Zeeman effect. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	15
31	Valley-Spin Logic Gates. <i>Physical Review Applied</i> , 2020, 13, .	3.8	27
32	Colossal flexoresistance in dielectrics. <i>Nature Communications</i> , 2020, 11, 2586.	12.8	21
33	Polar coupling enabled nonlinear optical filtering at MoS <sub>2</sub> /ferroelectric heterointerfaces. <i>Nature Communications</i> , 2020, 11, 1422.	12.8	31
34	Strain-driven disproportionation at a correlated oxide metal-insulator transition. <i>Physical Review B</i> , 2020, 101, .	3.2	26
35	Induced spin textures at $\text{d}$ -transition metal-topological insulator interfaces. <i>Physical Review B</i> , 2020, 101, .	3.2	26
36	Nonlinear Anomalous Hall Effect for Néel Vector Detection. <i>Physical Review Letters</i> , 2020, 124, 067203.	7.8	52

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37	Detection of decoupled surface and bulk states in epitaxial orthorhombic SrIrO <sub>3</sub> thin films. AIP Advances, 2020, 10, 045027.	1.3	4
38	Spin-torque switching of noncollinear antiferromagnetic antiperovskites. Physical Review B, 2020, 101, .	3.2	21
39	Evaluating the Thermoelectric Properties of BaTiS <sub>3</sub> by Density Functional Theory. ACS Omega, 2020, 5, 12385-12390.	3.5	10
40	Ferroelectric-driven tunable magnetism in ultrathin platinum films. Physical Review Materials, 2020, 4, .	2.4	4
41	Anisotropic spin-orbit torque generation in epitaxial SrIrO <sub>3</sub> by symmetry design. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16186-16191.	7.1	73
42	Spin-Dependent Transport in van der Waals Magnetic Tunnel Junctions with Fe <sub>3</sub> GeTe <sub>2</sub> Electrodes. Nano Letters, 2019, 19, 5133-5139.	9.1	115
43	A room-temperature ferroelectric semimetal. Science Advances, 2019, 5, eaax5080.	10.3	176
44	Two-dimensional spin-valley locking spin valve. Physical Review B, 2019, 100, .	3.2	57
45	Tunneling Anisotropic Magnetoresistance in Ferroelectric Tunnel Junctions. Physical Review Applied, 2019, 12, .	3.8	2
46	Magnetolectric Effect at the Ni/Mo/HfO <sub>2</sub> Interface Induced by Ferroelectric Polarization. Physical Review Applied, 2019, 12, .	3.8	15
47	Ferroelectric Tunnel Junctions Enhanced by a Polar Oxide Barrier Layer. Nano Letters, 2019, 19, 7385-7393.	9.1	23
48	Magnetolectric control of topological phases in graphene. Physical Review B, 2019, 100, .	3.2	17
49	Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. Nature Communications, 2019, 10, 537.	12.8	64
50	Freestanding crystalline oxide perovskites down to the monolayer limit. Nature, 2019, 570, 87-90.	27.8	398
51	Controlling the Magnetic Properties of LaMnO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures by Stoichiometry and Electronic Reconstruction: Atomic-Scale Evidence. Advanced Materials, 2019, 31, 1901386.	21.0	27
52	Spin Filtering in Cr <sub>3</sub> Tunnel Junctions. ACS Applied Materials & Interfaces, 2019, 11, 15781-15787.	8.0	71
53	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. Nano Letters, 2019, 19, 3057-3065.	9.1	13
54	Dirac Nodal Line Metal for Topological Antiferromagnetic Spintronics. Physical Review Letters, 2019, 122, 077203.	7.8	51

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55	Domain-Wall Tunneling Electroresistance Effect. Physical Review Letters, 2019, 123, 266602.	7.8	17
56	Polarization-dependent electric potential distribution across nanoscale ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> in functional memory capacitors. Nanoscale, 2019, 11, 19814-19822.	5.6	11
57	Control of magnetic anisotropy in $\text{PbZr}_{0.2}\text{T}_{0.8}\text{O}_3$ thin films. Physical Review Applied, 2019, 11, 044002.	2.4	18
58	Electrically reversible magnetization at the antiperovskite/perovskite interface. Physical Review Materials, 2019, 3, .	2.4	10
59	Anomalous Hall conductivity of noncollinear magnetic antiperovskites. Physical Review Materials, 2019, 3, .	2.4	50
60	Resonant tunneling across a ferroelectric domain wall. Physical Review B, 2018, 97, .	3.2	22
61	Direct observation of a two-dimensional hole gas at oxide interfaces. Nature Materials, 2018, 17, 231-236.	27.5	151
62	Direct imaging of the electron liquid at oxide interfaces. Nature Nanotechnology, 2018, 13, 198-203.	31.5	40
63	Solid-State Synapse Based on Magnetoelectrically Coupled Memristor. ACS Applied Materials & Interfaces, 2018, 10, 5649-5656.	8.0	55
64	Polarization-controlled modulation doping of a ferroelectric from first principles. Physical Review B, 2018, 97, .	3.2	13
65	Tunneling Hot Spots in Ferroelectric SrTiO <sub>3</sub> . Nano Letters, 2018, 18, 491-497.	9.1	30
66	Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-to-a-Plane Ferroelectric/Semiconductor Junctions. Advanced Functional Materials, 2018, 28, 1704337.	14.9	21
67	Isostructural metal-insulator transition in VO <sub>2</sub> . Science, 2018, 362, 1037-1040.	12.6	158
68	Tunable two-dimensional Dirac nodal nets. Physical Review B, 2018, 98, .	3.2	11
69	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	31.5	53
70	Tunneling anomalous Hall effect in a ferroelectric tunnel junction. Applied Physics Letters, 2018, 113, 172405.	3.3	21
71	Whirling spins with a ferroelectric. Nature Materials, 2018, 17, 1054-1055.	27.5	8
72	Two-dimensional type-II Dirac fermions in a $\text{LaAlO}_3/\text{LaNiO}_3$ quantum well. Physical Review B, 2018, 98, .		

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73	Ambipolar ferromagnetism by electrostatic doping of a manganite. Nature Communications, 2018, 9, 1897.	12.8	51
74	Persistent spin texture enforced by symmetry. Nature Communications, 2018, 9, 2763.	12.8	109
75	Defect-Assisted Tunneling Electroresistance in Ferroelectric Tunnel Junctions. Physical Review Letters, 2018, 121, 056601.	7.8	39
76	Contributions of the lead-bromine weighted bands to the occupied density of states of the hybrid tri-bromide perovskites. Applied Physics Letters, 2018, 113, 022101.	3.3	6
77	Effects of B and C doping on tunneling magnetoresistance in CoFe/MgO magnetic tunnel junctions. Physical Review B, 2018, 98, .	3.2	10
78	Direct observation of room-temperature out-of-plane ferroelectricity and tunneling electroresistance at the two-dimensional limit. Nature Communications, 2018, 9, 3319.	12.8	81
79	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS <sub>2</sub> /BaTiO <sub>3</sub> /SrRuO <sub>3</sub> Tunnel Junctions. Nano Letters, 2017, 17, 922-927.	9.1	75
80	Crossing the wall. Nature Nanotechnology, 2017, 12, 614-615.	31.5	14
81	Effects of pressure and strain on spin polarization of IrMnSb. Journal of Physics Condensed Matter, 2017, 29, 075801.	1.8	22
82	Epitaxial thin films of Dirac semimetal antiperovskite Cu <sub>3</sub> PdN. APL Materials, 2017, 5, .	5.1	13
83	Spin-polarized two-dimensional electron gas at the GdTiO <sub>3</sub> /SrTiO <sub>3</sub> interface: Insight from first-principles calculations. Physical Review B, 2017, 96, .	3.2	22
84	Electronic structure and direct observation of ferrimagnetism in multiferroic hexagonal YbFeO <sub>3</sub> . Physical Review B, 2017, 95, .	3.2	27
85	Model of orbital populations for voltage-controlled magnetic anisotropy in transition-metal thin films. Physical Review B, 2017, 96, .	3.2	82
86	Reversible spin texture in ferroelectric HfO <sub>2</sub> . Physical Review B, 2017, 95, .	3.2	80
87	Palladium-based ferroelectrics and multiferroics: Theory and experiment. Physical Review B, 2017, 95, .	3.2	23
88	Prediction of a mobile two-dimensional electron gas at the LaScO <sub>3</sub> /SrTiO <sub>3</sub> interface. Physical Review B, 2017, 96, .	3.2	22
89	In-situ probing of coupled atomic restructuring and metallicity of oxide heterointerfaces induced by polar adsorbates. Applied Physics Letters, 2017, 111, 141604.	3.3	2
90	On the structural origin of the single-ion magnetic anisotropy in LuFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2016, 28, 156001.	1.8	20

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91	Modification of the G-phonon mode of graphene by nitrogen doping. Applied Physics Letters, 2016, 108, .	3.3	5
92	Complex band structure of topological insulator Bi <sub>2</sub> Se <sub>3</sub> . Journal of Physics Condensed Matter, 2016, 28, 395501.	1.8	24
93	Band structure and spin texture of $\text{Bi}_2\text{Te}_3$ metal interface. Physical Review B, 2016, 94, .	2.2	18
94	Surface Electronic Structure of Hybrid Organo Lead Bromide Perovskite Single Crystals. Journal of Physical Chemistry C, 2016, 120, 21710-21715.	3.1	58
95	Electronic structure and stability of the $\text{CH}_3\text{NH}_3\text{PbBr}_3$ metal interface. Physical Review B, 2016, 94, .	3.2	49
96	Magnetic gating of a 2D topological insulator. Journal of Physics Condensed Matter, 2016, 28, 38LT01.	1.8	5
97	Tunneling anisotropic magnetoresistance in a magnetic tunnel junction with half-metallic electrodes. Physical Review B, 2016, 93, .	3.2	21
98	Engineering interfacial energy profile by changing the substrate terminating plane in perovskite heterointerfaces. Physical Review B, 2016, 93, .	3.2	2
99	Giant Enhancement of Magnetic Anisotropy in Ultrathin Manganite Films via Nanoscale 1D Periodic Depth Modulation. Physical Review Letters, 2016, 116, 187201.	7.8	41
100	Enhanced Tunneling Electroresistance in Ferroelectric Tunnel Junctions due to the Reversible Metallization of the Barrier. Physical Review Letters, 2016, 116, 197602.	7.8	52
101	Predictive modelling of ferroelectric tunnel junctions. Npj Computational Materials, 2016, 2, .	8.7	88
102	Imprint Control of BaTiO <sub>3</sub> Thin Films via Chemically Induced Surface Polarization Pinning. Nano Letters, 2016, 16, 2400-2406.	9.1	56
103	Hexagonal rare-earth manganites as promising photovoltaics and light polarizers. Physical Review B, 2015, 92, .	3.2	100
104	Electromechanics of Ferroelectric-Like Behavior of LaAlO <sub>3</sub> Thin Films. Advanced Functional Materials, 2015, 25, 6538-6544.	14.9	42
105	Multiferroic tunnel junctions and ferroelectric control of magnetic state at interface (invited). Journal of Applied Physics, 2015, 117, .	2.5	26
106	Tunable Optical Properties and Charge Separation in $\text{CH}_3\text{NH}_3\text{SnPbI}_3/\text{TiO}_2$ -Based Planar Perovskites Cells. Journal of the American Chemical Society, 2015, 137, 8227-8236.	15.0	340
107	Tunneling anisotropic magnetoresistance with half-metallic electrodes. , 2015, , .		0
108	Electric Control of Spin Injection into a Ferroelectric Semiconductor. Physical Review Letters, 2015, 114, 046601.	7.8	12

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109	Effect of epitaxial strain on tunneling electroresistance in ferroelectric tunnel junctions. Nanotechnology, 2015, 26, 305202.	2.6	19
110	The stability and surface termination of hexagonal LuFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2015, 27, 175004.	1.8	8
111	Mechanical Tuning of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface Conductivity. Nano Letters, 2015, 15, 3547-3551.	9.1	75
112	Epitaxial CrN Thin Films with High Thermoelectric Figure of Merit. Advanced Materials, 2015, 27, 3032-3037.	21.0	59
113	Imaging and control of ferromagnetism in LaMnO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Science, 2015, 349, 716-719.	12.6	153
114	Electrically controlled spin injection into a ferroelectric semiconductor. , 2015, , .		0
115	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	12.6	259
116	Local currents in a 2D topological insulator. Journal of Physics Condensed Matter, 2015, 27, 505301.	1.8	4
117	Chemically induced Jahnâ€Teller ordering on manganite surfaces. Nature Communications, 2014, 5, 4528.	12.8	28
118	Complex band structure of topologically protected edge states. Physical Review B, 2014, 90, .	3.2	23
119	Ferroelectric tunnel junctions with graphene electrodes. Nature Communications, 2014, 5, 5518.	12.8	107
120	Roomâ€Ttemperature Ferroelectricity in Hexagonal TbMnO <sub>3</sub> Thin Films. Advanced Materials, 2014, 26, 7660-7665.	21.0	32
121	Emergent vortices at a ferromagnetic superconducting oxide interface. New Journal of Physics, 2014, 16, 103012.	2.9	6
122	Long-range electronic reconstruction to a dx <sub>z</sub> ,yz-dominated Fermi surface below the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Scientific Reports, 2014, 4, 5338.	3.3	11
123	Anomalous and spin Hall effects in a magnetic tunnel junction with Rashba spin-orbit coupling. Applied Physics Letters, 2013, 103, .	3.3	36
124	Polarization discontinuity induced two-dimensional electron gas at ZnO/Zn(Mg)O interfaces: A first-principles study. Physical Review B, 2013, 88, .	3.2	31
125	Interface states in CoFe <sub>2</sub> O <sub>4</sub> spin-filter tunnel junctions. Physical Review B, 2013, 88, .	3.2	22
126	Enhanced tunnelling electroresistance effect due to a ferroelectrically induced phase transition at a magnetic complex oxide interface. Nature Materials, 2013, 12, 397-402.	27.5	283



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127	Beyond the barrier. Nature Materials, 2013, 12, 602-604.	27.5	106
128	Hydroxyl-decorated graphene systems as candidates for organic metal-free ferroelectrics, multiferroics, and high-performance proton battery cathode materials. Physical Review B, 2013, 87, .	3.2	100
129	Polarization-controlled Ohmic to Schottky transition at a metal/ferroelectric interface. Physical Review B, 2013, 88, .	3.2	53
130	Grand challenges in condensed matter physics: from knowledge to innovation. Frontiers in Physics, 2013, 1, .	2.1	6
131	Interface dipole effect on thin film ferroelectric stability: First-principles and phenomenological modeling. Physical Review B, 2012, 85, .	3.2	45
132	Multiferroic tunnel junctions with poly(vinylidene fluoride). Physical Review B, 2012, 85, .	3.2	37
133	Coherent potential approximation as a voltage probe. Physical Review B, 2012, 85, .	3.2	5
134	Ferroelectric Control of Magnetocrystalline Anisotropy at Cobalt/Poly(vinylidene fluoride) Interfaces. ACS Nano, 2012, 6, 9745-9750.	14.6	39
135	Ferroelectric Instability Under Screened Coulomb Interactions. Physical Review Letters, 2012, 109, 247601.	7.8	117
136	Ferroelectric Tunnel Memristor. Nano Letters, 2012, 12, 5697-5702. Magnetic and superconducting phases at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface: The role of interfacial Ti 3d	9.1	285
137	Intrinsic defects in multiferroic BiFeO <sub>3</sub> and their effect on magnetism. Physical Review B, 2012, 85, .	3.2	137
138	New view of the occupied band structure of Mo(112). Physical Review B, 2012, 85, .	3.2	9
139	Magnetolectric interfaces and spin transport. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4840-4855.	3.4	29
140	Intrinsic defects in multiferroic BiFeO <sub>3</sub> and their effect on magnetism. Physical Review B, 2012, 85, .	3.2	153
141	Mechanically-Induced Resistive Switching in Ferroelectric Tunnel Junctions. Nano Letters, 2012, 12, 6289-6292.	9.1	58
142	Oxygen vacancies at titanate interfaces: Two-dimensional magnetism and orbital reconstruction. Physical Review B, 2012, 86, .	3.2	124
143	Ferroelectric control of the magnetocrystalline anisotropy of the Fe/BaTiO <sub>3</sub> (001) interface. Journal of Physics Condensed Matter, 2012, 24, 226003.	1.8	33
144	Multifunctional Oxide Heterostructures. , 2012, , .		42

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145	Tunable ferroelectricity in artificial tri-layer superlattices comprised of non-ferroic components. Nature Communications, 2012, 3, 1064.	12.8	51
146	Switchable Induced Polarization in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. Nano Letters, 2012, 12, 1765-1771.	9.1	167
147	Multiferroic Materials Based on Organic Transition-Metal Molecular Nanowires. Journal of the American Chemical Society, 2012, 134, 14423-14429.	13.7	49
148	Ferroelectric and multiferroic tunnel junctions. MRS Bulletin, 2012, 37, 138-143.	3.5	182
149	Electric modulation of magnetization at the BaTiO <sub>3</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> interfaces. Applied Physics Letters, 2012, 100, .	3.3	118
150	Electric toggling of magnets. Nature Materials, 2012, 11, 12-13.	27.5	96
151	Spin filtering with EuO: Insight from the complex band structure. Physical Review B, 2012, 85, .	3.2	24
152	Enhancement of Ferroelectric Polarization Stability by Interface Engineering. Advanced Materials, 2012, 24, 1209-1216.	21.0	118
153	Organic Multiferroic Tunnel Junctions with Ferroelectric Poly(vinylidene fluoride) Barriers. Nano Letters, 2011, 11, 599-603.	9.1	65
154	Transport spin polarization of high Curie temperature MnBi films. Physical Review B, 2011, 83, .	3.2	44
155	Multi-ferroic and magnetoelectric materials and interfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3069-3097.	3.4	190
156	Giant Tunneling Electroresistance Effect Driven by an Electrically Controlled Spin Valve at a Complex Oxide Interface. Physical Review Letters, 2011, 106, 157203.	7.8	111
157	Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. Science, 2011, 331, 886-889.	12.6	212
158	Magnetic nanoparticles: recent advances in synthesis, self-assembly and applications. Journal of Materials Chemistry, 2011, 21, 16819.	6.7	442
159	Highly Spin-Polarized Conducting State at the Interface between Nonmagnetic Band Insulators: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{LaAlO}_3 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{SrTiO}_3 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{O}_3$ Physical Review Letters, 2011, 107, 166601.	7.8	28
160	Tailoring a two-dimensional electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (001) interface by epitaxial strain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4720-4724.	7.1	218
161	Effect of spin-dependent screening on tunneling electroresistance and tunneling magnetoresistance in multiferroic tunnel junctions. Physical Review B, 2010, 81, .	3.2	85
162	Ferroelectric dead layer driven by a polar interface. Physical Review B, 2010, 82, .	3.2	51

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163	Electrically driven magnetism on a Pd thin film. Physical Review B, 2010, 81, .	3.2	53
164	Suppression of Octahedral Tilts and Associated Changes in Electronic Properties at Epitaxial Oxide Heterostructure Interfaces. Physical Review Letters, 2010, 105, 087204.	7.8	308
165	Electric field effect on magnetization at the Fe/MgO(001) interface. Applied Physics Letters, 2010, 96, .	3.3	270
166	Interlayer exchange coupling across a ferroelectric barrier. Journal of Physics Condensed Matter, 2010, 22, 352203.	1.8	15
167	Evolution of the band alignment at polar oxide interfaces. Physical Review B, 2010, 82, .	3.2	30
168	Oxide tunnel junctions supporting a two-dimensional electron gas. Physical Review B, 2009, 80, .	3.2	8
169	Prediction of a Switchable Two-Dimensional Electron Gas at Ferroelectric Oxide Interfaces. Physical Review Letters, 2009, 103, 016804.	7.8	115
170	First-principles studies of a two-dimensional electron gas at the interface in ferroelectric oxide heterostructures. Physical Review B, 2009, 80, .	3.2	34
171	Universality of the surface magnetoelectric effect in half-metals. Physical Review B, 2009, 79, .	3.2	47
172	Tunneling electroresistance in ferroelectric tunnel junctions with a composite barrier. Applied Physics Letters, 2009, 95, .	3.3	124
173	Quantum Nature of Two-Dimensional Electron Gas Confinement at $\text{LaAlO}_3/\text{EuO}$ interface. Physical Review Letters, 2009, 102, 106803.	7.8	108
174	Prediction of a spin-polarized two-dimensional electron gas at the $\text{LaAlO}_3/\text{EuO}$ interface. Physical Review B, 2009, 79, .	3.2	44
175	Tunneling Electroresistance Effect in Ferroelectric Tunnel Junctions at the Nanoscale. Nano Letters, 2009, 9, 3539-3543.	9.1	536
176	Prediction of electrically induced magnetic reconstruction at the manganite/ferroelectric interface. Physical Review B, 2009, 80, .	3.2	210
177	Magnetoelectric effect at the $\text{SrRuO}_3/\text{BaTiO}_3$ (001) interface: An <i>ab initio</i> study. Applied Physics Letters, 2009, 95, .	3.3	119
178	Magnetic Tunnel Junctions with Ferroelectric Barriers: Prediction of Four Resistance States from First Principles. Nano Letters, 2009, 9, 427-432.	9.1	305
179	Interface effects in spin-polarized metal/insulator layered structures. Surface Science Reports, 2008, 63, 400-425.	7.2	113
180	THE IMPORTANCE OF $\text{Fe}$ SURFACE STATES FOR MAGNETIC TUNNEL JUNCTION BASED SPINTRONIC DEVICES. Modern Physics Letters B, 2008, 22, 2529-2551.	1.9	6

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182	Magnetoelectric effect at the ferromagnetic/ferroelectric interface: A first-principles study. Physical Review B, 2008, 78, .	7.8	150
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