

Strong Spin-Orbit Splitting on Bi Surfaces

Physical Review Letters

93, 046403

DOI: [10.1103/physrevlett.93.046403](https://doi.org/10.1103/physrevlett.93.046403)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Giant spin-orbit splitting in aHgTequantum well. Physical Review B, 2004, 70, .	1.1	110
2	Role of Spin in Quasiparticle Interference. Physical Review Letters, 2004, 93, 196802.	2.9	158
3	Self-energy determination and electronâ€“phonon coupling on Bi(110). New Journal of Physics, 2005, 7, 99-99.	1.2	37
4	Strong lateral growth and crystallization via two-dimensional allotropic transformation of semi-metal Bi film. Surface Science, 2005, 590, 247-252.	0.8	66
5	Evidence against a charge density wave on Bi(111). Physical Review B, 2005, 72, .	1.1	33
6	Electron spin dynamics in impure quantum wells for arbitrary spin-orbit coupling. Physical Review B, 2005, 72, .	1.1	19
7	Structure of the (111) surface of bismuth: LEED analysis and first-principles calculations. Physical Review B, 2005, 72, .	1.1	79
8	Electronic structure and Fermi surface of Bi(100). Physical Review B, 2005, 71, .	1.1	55
9	Quantum Spin Hall Effect and Enhanced Magnetic Response by Spin-Orbit Coupling. Physical Review Letters, 2006, 97, 236805.	2.9	548
10	Origin of Orbital Ferromagnetism and Giant Magnetic Anisotropy at the Nanoscale. Physical Review Letters, 2006, 96, 057206.	2.9	139
11	Electronic structure of an orderedPbâˆ•Ag(111)surface alloy: Theory and experiment. Physical Review B, 2006, 73, .	1.1	92
12	Experimental Evidence for Spin-Split Bands in a One-Dimensional Chain Structure. Physical Review Letters, 2006, 97, 226405.	2.9	125
13	Electronic Excitations in Metals and at Metal Surfaces. Chemical Reviews, 2006, 106, 4160-4206.	23.0	218
14	Higher-order contributions to Rashba and Dresselhaus effects. Physical Review B, 2006, 73, .	1.1	37
15	Role of Spin-Orbit Coupling and Hybridization Effects in the Electronic Structure of Ultrathin Bi Films. Physical Review Letters, 2006, 97, 146803.	2.9	289
16	The surfaces of bismuth: Structural and electronic properties. Progress in Surface Science, 2006, 81, 191-245.	3.8	489
17	The Rashba-effect at metallic surfaces. Surface Science, 2006, 600, 3888-3891.	0.8	171
18	Decay of electronic excitations in bulk metals and at surfaces. Surface Science, 2006, 600, 3795-3802.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Fermi Surface and Anisotropic Spin-Orbit Coupling of Sb(111) Studied by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2006, 96, 046411.	2.9	145
20	Off-Fermi surface cancellation effects in spin-Hall conductivity of a two-dimensional Rashba electron gas. Physical Review B, 2006, 73, .	1.1	25
21	Structural determination of the Bi(110) semimetal surface by LEED analysis and ab initio calculations. Physical Review B, 2006, 74, .	1.1	14
22	Giant magnetic anisotropy at the nanoscale: Overcoming the superparamagnetic limit. Physical Review B, 2006, 74, .	1.1	71
23	Large surface-state conductivity in ultrathin Bi films. Applied Physics Letters, 2007, 91, .	1.5	92
24	Atomic and electronic structure of $\text{Te(111)}(1\bar{1}-1)$: LEED and ARPES measurements and first-principles calculations. Physical Review B, 2007, 76, .	1.1	22
25	Intrinsic spin-Hall accumulation in honeycomb lattices: Band structure effects. Physical Review B, 2007, 76, .	1.1	14
26	Valence-band splitting in $\text{Mg(110)}(1\bar{1}-1)$: LEED and ARPES measurements and first-principles calculations. Neither spin-orbit nor parity effect. Physical Review B, 2007, 76, .	1.1	17
27	Enhanced Rashba spin-orbit splitting in BiAg(111) and PbAg(111) surface alloys from first principles. Physical Review B, 2007, 75, .	1.1	156
28	Direct observation of spin splitting in bismuth surface states. Physical Review B, 2007, 76, .	1.1	163
29	Transition between tetramer and monomer phases driven by vacancy configuration entropy on BiAg(001) . Physical Review B, 2007, 75, .	1.1	38
30	Quantum well states in ultrathin Bi films: Angle-resolved photoemission spectroscopy and first-principles calculations study. Physical Review B, 2007, 75, .	1.1	103
31	Topological Change of the Fermi Surface in Low-Density Rashba Gases: Application to Superconductivity. Physical Review Letters, 2007, 98, 167002.	2.9	110
32	Spin-Orbit Coupling Induced Interference in Quantum Corrals. Nano Letters, 2007, 7, 3377-3382.	4.5	29
33	Phase transition between the quantum spin Hall and insulator phases in 3D: emergence of a topological gapless phase. New Journal of Physics, 2007, 9, 356-356.	1.2	1,016
34	Electron-phonon effects on spin-orbit split bands of two-dimensional systems. Physical Review B, 2007, 76, .	1.1	28
35	Giant Spin Splitting through Surface Alloying. Physical Review Letters, 2007, 98, 186807.	2.9	732
36	Spin-orbit splitting in an anisotropic two-dimensional electron gas. Physical Review B, 2007, 76, .	1.1	91

#	ARTICLE	IF	CITATIONS
55	Direct evidence of spin-polarized band structure of Sb(111) surface. Applied Physics Letters, 2008, 93, 252107.	1.5	21
56	Band structure of Tl/Ce(111) $\hat{\sim}$ (3 \AA –1): Angle-resolved photoemission and first-principles prediction of giant Rashba effect. Physical Review B, 2008, 77, .	1.1	19
57	Quantitative vectorial spin analysis in angle-resolved photoemission: $\langle \text{Bi} \rangle \hat{\sim} \langle \text{Ag} \rangle \langle 111 \rangle$. Physical Review B, 2008, 77, .	1.1	18
58	Effect of rare-gas adsorption on the spin-orbit split bands of a surface alloy: Xe on Ag(111). Physical Review B, 2008, 77, .	1.1	18
59	Nonequilibrium spin transport on Au(111) surfaces. Physical Review B, 2008, 78, .	1.1	11
60	Rashba-Type Spin-Orbit Splitting of Quantum Well States in Ultrathin Pb Films. Physical Review Letters, 2008, 101, 266802.	2.9	124
61	Homoepitaxial growth of Bi(111). Physical Review B, 2008, 78, .	1.1	19
62	Current-induced spin polarization in spin-orbit-coupled electron systems. Physical Review B, 2008, 78, .	1.1	19
63	First-principles investigation of structural and electronic properties of ultrathin Bi films. Physical Review B, 2008, 77, .	1.1	193
64	Rashba Effect at Surfaces. Journal of the Vacuum Society of Japan, 2009, 52, 577-581.	0.3	3
65	Epitaxial Growth of Bi(111) on Si(001). E-Journal of Surface Science and Nanotechnology, 2009, 7, 441-447.	0.1	1
66	Electronic Structure of Ultrathin Bismuth Films: The Rashba and Quantum-size Effects and Their Interplay. Journal of the Vacuum Society of Japan, 2009, 52, 582-588.	0.3	1
67	Nucleation and initial growth in the semimetallic homoepitaxial system of Bi on Bi(111). Physical Review B, 2009, 79, .	1.1	7
68	Hole dynamics in a two-dimensional spin-orbit coupled electron system: Theoretical and experimental study of the Au(111) surface state. Physical Review B, 2009, 80, .	1.1	49
69	Nondegenerate Metallic States on Bi(114): A One-Dimensional Topological Metal. Physical Review Letters, 2009, 102, 096802.	2.9	65
70	Large Rashba spin splitting of surface resonance bands on semiconductor surface. Physical Review B, 2009, 80, .	1.1	62
71	Assessing the atomic contribution to the Rashba spin-orbit splitting in surface alloys: Sb/Ag(111). Physical Review B, 2009, 79, .	1.1	62
72	Unconventional spin topology in surface alloys with Rashba-type spin splitting. Physical Review B, 2009, 79, .	1.1	62

#	ARTICLE	IF	CITATIONS
73	Electronic structure and surface-mediated metastability of Bi films on Si(111)- $\sqrt{7} \times \sqrt{7}$ reconstruction studied by angle-resolved photoemission spectroscopy. Physical Review B, 2009, 80, .	1.1	41
74	Upstanding Rashba spin in honeycomb lattices: Electrically reversible surface spin polarization. Physical Review B, 2009, 80, .	1.1	17
75	Rashba effect at the surfaces of rare-earth metals and their monoxides. New Journal of Physics, 2009, 11, 013035.	1.2	36
76	Epitaxial growth of Bi thin films on Ge(111). Applied Surface Science, 2009, 256, 1252-1256.	3.1	37
77	Giant spin-orbit splitting in a surface alloy grown on a Si substrate. Physica B: Condensed Matter, 2009, 404, 419-421.	1.3	1
78	Origin and manipulation of the Rashba splitting in surface alloys. Europhysics Letters, 2009, 87, 37003.	0.7	67
79	Analysis of the possibility of the spin-orbit origin of surface state splitting in thin Mg(0001) layers on W(110) and Mo(110). Physics of the Solid State, 2009, 51, 608-619.	0.2	1
80	Structure determination of Bi/Ge(111)- $\sqrt{3} \times \sqrt{3}$ reconstruction by dynamical low-energy electron diffraction analysis and scanning tunneling microscopy. Journal of Physics Condensed Matter, 2009, 21, 405001.	0.7	9
81	A first-principles study on the Rashba effect in surface systems. Journal of Physics Condensed Matter, 2009, 21, 064239.	0.7	105
82	Spin and angle resolved photoemission on non-magnetic low-dimensional systems. Journal of Physics Condensed Matter, 2009, 21, 403001.	0.7	120
83	The surface Rashba effect: a $k \cdot p$ perturbation approach. Journal of Physics Condensed Matter, 2009, 21, 092001.	0.7	58
84	Electronic structures and surface states of the topological insulator Bi ₂ Te ₃ . Physical Review B, 2009, 80, .	1.1	113
85	Surface-sensitive conductance measurements. Journal of Physics Condensed Matter, 2009, 21, 013003.	0.7	65
86	Electron-phonon coupling at surfaces and interfaces. New Journal of Physics, 2009, 11, 125005.	1.2	112
87	Abrupt Rotation of the Rashba Spin to the Direction Perpendicular to the Surface. Physical Review Letters, 2009, 102, 096805.	2.9	137
88	Peculiar Rashba Splitting Originating from the Two-Dimensional Symmetry of the Surface. Physical Review Letters, 2009, 103, 156801.	2.9	124
89	Signatures of Surface States in Bismuth at High Magnetic Fields. Physical Review Letters, 2009, 103, 136803.	2.9	24
90	Berry's phase manifestation in Aharonov-Bohm oscillations in single Bi nanowires. Journal of Physics: Conference Series, 2009, 150, 022013.	0.3	2

#	ARTICLE	IF	CITATIONS
91	Electronic structure and excitations on clean and nanostructured metal surfaces. <i>European Physical Journal B</i> , 2010, 75, 37-47.	0.6	2
92	Structural influence on the Rashba-type spin splitting in surface alloys. <i>Physical Review B</i> , 2010, 81, .	1.1	64
94	Tuning the giant Rashba effect on a BiAg ₂ surface alloy: Two different approaches. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 181, 88-95.	0.8	14
95	Thermally induced spin polarization and thermal conductivities in a spin-orbit-coupled two-dimensional electron gas. <i>Solid State Communications</i> , 2010, 150, 1509-1513.	0.9	19
96	The effects of annealing and growth temperature on the morphologies of Bi nanostructures on HOPG. <i>Surface Science</i> , 2010, 604, 1273-1282.	0.8	23
97	Effect of the atomic composition of the surface on the electron surface states in topological insulators A ₂ B ₃ VI. <i>JETP Letters</i> , 2010, 91, 387-391.	0.4	88
98	Ternary thallium-based semimetal chalcogenides TI-V-VI ₂ as a new class of three-dimensional topological insulators. <i>JETP Letters</i> , 2010, 91, 594-598.	0.4	42
99	Two-Dimensional Electron Transport and Scattering in Bi(111) Surface States. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010, 8, 27-31.	0.1	11
100	Spin-polarized semiconductor surface states localized in subsurface layers. <i>Physical Review B</i> , 2010, 82, .	1.1	39
101	Anisotropic Rashba splitting of surface states from the admixture of bulk states: Relativistic $\langle i \rangle$ calculations and $\langle mml:math \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle mml:mrow \rangle \langle mml:mi \rangle k \langle /mml:mi \rangle \langle mml:mo \rangle \hat{\alpha} \dots \langle /mml:mo \rangle \langle mml:mi \rangle p \langle /mml:mi \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ perturbative theory. <i>Physical Review B</i> , 2010, 81, .	1.1	32
102	Strong effect of substrate termination on Rashba spin-orbit splitting: Bi on $\langle mml:math \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle mml:mrow \rangle \langle mml:msub \rangle \langle mml:mrow \rangle \langle mml:mtext \rangle \text{BaTiO} \langle /mml:mtext \rangle \langle /mml:mrow \rangle \langle mml:mn \rangle 3 \langle /mml:mn \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ first principles. <i>Physical Review B</i> , 2010, 82, .	1.1	11
103	Ultrahigh-resolution spin-resolved photoemission spectrometer with a mini Mott detector. <i>Review of Scientific Instruments</i> , 2010, 81, 095101.	0.6	38
104	Quasiparticle scattering and the protected nature of the topological states in a parent topological insulator $\langle mml:math \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle mml:mrow \rangle \langle mml:msub \rangle \langle mml:mrow \rangle \langle mml:mtext \rangle \text{Bi} \langle /mml:mtext \rangle \langle /mml:mrow \rangle \langle mml:mn \rangle 2 \langle /mml:mn \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$. <i>Physical Review B</i> , 2010, 81, .	1.1	97
105	Quantum-Well-Induced Giant Spin-Orbit Splitting. <i>Physical Review Letters</i> , 2010, 104, 066802.	2.9	92
106	Direct observation of spin-polarized surface states in the parent compound of a topological insulator using spin- and angle-resolved photoemission spectroscopy in a Mott-polarimetry mode. <i>New Journal of Physics</i> , 2010, 12, 125001.	1.2	31
107	Elastic and inelastic scattering of He atoms from Bi(111). <i>Journal of Physics Condensed Matter</i> , 2010, 22, 304019.	0.7	24
108	Electronic Structure of Bi Nanoribbon: Greatly Influenced by Edge Chirality and Edge Reconstruction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19289-19293.	1.5	12
109	Bi ordered phases on Cu(100): Periodic arrays of dislocations influence the electronic properties. <i>Journal of Chemical Physics</i> , 2010, 132, 174706.	1.2	2

#	ARTICLE	IF	CITATIONS
110	Role of the surface states in the magnetotransport properties of ultrathin bismuth films. Physical Review B, 2010, 82, .	1.1	44
111	Large Rashba spin splitting of a metallic surface-state band on a semiconductor surface. Nature Communications, 2010, 1, 17.	5.8	206
112	Direct Evidence for the Dirac-Cone Topological Surface States in the Ternary Chalcogenide $TlBiSe_2$. Physical Review Letters, 2010, 105, 136802.	2.9	211
113	Strong Rashba-Type Spin Polarization of the Photocurrent from Bulk Continuum States: Experiment and Theory for Bi(111). Physical Review Letters, 2010, 105, 076804.	2.9	92
114	Band structure scenario for the giant spin-orbit splitting observed at the Bi/Si(111) interface. Physical Review B, 2010, 82, .	1.1	64
115	Spin-split electronic states in graphene: Effects due to lattice deformation, Rashba effect, and adatoms by first principles. Physical Review B, 2010, 82, .	1.1	107
116	Anomalous Magneto-Transport Properties of Epitaxial Single-Crystal Bi Films on Si(III). Chinese Physics Letters, 2010, 27, 107102.	1.3	1
117	Structure and oscillatory multilayer relaxation of the bismuth (100) surface. New Journal of Physics, 2010, 12, 063016.	1.2	5
118	Origin of the metallic to insulating transition of an epitaxial Bi(111) film grown on Si(111). Chinese Physics B, 2010, 19, 087201.	0.7	11
119	Scanning tunneling microscopy of Bi-induced Ag(111) surface structures. Physical Review B, 2010, 82, .	1.1	17
120	Carrier dynamics in ultrathin films of semimetal Bismuth studied with terahertz time-domain spectroscopy. , 2011, , .		0
121	<i>Ab initio</i> electronic structure of thallium-based topological insulators. Physical Review B, 2011, 83, .	1.1	59
122	Orbital-Angular-Momentum Based Origin of Rashba-Type Surface Band Splitting. Physical Review Letters, 2011, 107, 156803.	2.9	162
123	Quantum Interference of Rashba-Type Spin-Split Surface State Electrons. Physical Review Letters, 2011, 107, 027204.	2.9	38
124	Interface of a Bi(001) film on Si(111) $\sim 7\text{\AA}$ imaged by surface x-ray diffraction. Physical Review B, 2011, 84, .	1.1	25
125	Large Tunable Rashba Spin Splitting of a Two-Dimensional Electron Gas in Bi_2Se_3 . Physical Review Letters, 2011, 107, 156803.	2.9	405
126	Topological transition in Bi_2Se_3 studied as a function of Sb doping. Physical Review B, 2011, 84, .	1.1	32
127	Topological transition in Bi_2Se_3 studied as a function of Sb doping. Physical Review B, 2011, 84, .	1.1	36

#	ARTICLE	IF	CITATIONS
128	Spin-orbit interaction and phase coherence in lithographically defined bismuth wires. <i>Physical Review B</i> , 2011, 83, .	1.1	23
129	Giant Out-of-Plane Spin Component and the Asymmetry of Spin Polarization in Surface Rashba States of Bismuth Thin Film. <i>Physical Review Letters</i> , 2011, 106, 166401.	2.9	90
130	Current-induced spin-orbit torques. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3175-3197.	1.6	294
131	Giant Rashba-type spin splitting in bulk BiTeI. <i>Nature Materials</i> , 2011, 10, 521-526.	13.3	711
132	Electronic band structure of the two-dimensional metallic electron system Au/Ge(111). <i>Physical Review B</i> , 2011, 83, .	1.1	25
133	Anisotropy effects on Rashba and topological insulator spin-polarized surface states: A unified phenomenological description. <i>Physical Review B</i> , 2011, 84, .	1.1	28
134	ãf^ãfãfã,ã,«ãf«çµ¶ç,ã½“ã®èj“éçé»ãæS«é€. <i>Hyomen Kagaku</i> , 2011, 32, 182-188.	0.0	0
135	Three- and two-dimensional topological insulators in Pb2Sb2Te5, Pb2Bi2Te5, and Pb2Bi2Se5 layered compounds. <i>JETP Letters</i> , 2011, 94, 217-221.	0.4	21
136	Origin of giant bulk Rashba splitting: Application to BiTeI. <i>Physical Review B</i> , 2011, 84, .	1.1	181
137	Evolution of the Rashba spin-orbit-split Shockley state on Ag/Pt(111). <i>Physical Review B</i> , 2011, 83, .	1.1	37
138	Giant spin-orbit-induced spin splitting in two-dimensional transition-metal dichalcogenide semiconductors. <i>Physical Review B</i> , 2011, 84, .	1.1	1,306
139	STM and XPS investigations of bismuth islands on HOPG. <i>Surface Science</i> , 2011, 605, 659-667.	0.8	63
140	Symmetrical transition of an atomic arrangement for 2D Bi films on Rh(111). <i>Surface Science</i> , 2011, 605, 844-847.	0.8	7
141	Size-dependent magnetic moments in ultrafine diamagnetic systems. <i>Journal of Applied Physics</i> , 2011, 109, 123908.	1.1	8
142	Strongly enhanced electron-phonon coupling in the Rashba-split state of the Bi/Ag(111) surface alloy. <i>Physical Review B</i> , 2011, 83, .	1.1	10
143	Manipulating the Rashba-type spin splitting and spin texture of Pb quantum well states. <i>Physical Review B</i> , 2011, 84, .	1.1	19
144	Metacinnabar ($\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 107 Td (display:}$) Anisotropic Surface States. <i>Physical Review Letters</i> , 2011, 106, 236806.	2.9	51
145	Observation of a surface alloying-to-dealloying transition during growth of Bi on Ag(111). <i>Physical Review B</i> , 2011, 83, .	1.1	33

#	ARTICLE	IF	CITATIONS
146	Tuning the spin texture in binary and ternary surface alloys on Ag(111). <i>Physical Review B</i> , 2011, 83, .	1.1	16
147	Spin orientation and sign of the Rashba splitting in Bi/Cu(111). <i>Physical Review B</i> , 2011, 84, .	1.1	53
148	Rashba polarization of bulk continuum states. <i>Physical Review B</i> , 2011, 83, .	1.1	25
149	Iron oxide nanoparticles coated with gold: Enhanced magnetic moment due to interfacial effects. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	52
150	Slab Thickness Dependence of Rashba Splitting on Au(111) Surface: First-Principles and Model Analyses. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 074713.	0.7	19
151	Vibrational dynamics and surface structure of Bi(111) from helium atom scattering measurements. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 104008.	0.7	18
152	Electronic structure study of ultrathin Ag(111) films modified by a Si(111) substrate and $\sqrt{3} \times \sqrt{3}$ -Ag ₂ Bi surface. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 115501.	0.7	1
153	Full characterization and optimization of a femtosecond ultraviolet laser source for time and angle-resolved photoemission on solid surfaces. <i>Review of Scientific Instruments</i> , 2012, 83, 043109.	0.6	80
154	Role of d orbitals in the Rashba-type spin splitting for noble-metal surfaces. <i>Physical Review B</i> , 2012, 86, .	1.1	25
155	Magnetic Adatom Induced Skyrmion-Like Spin Texture in Surface Electron Waves. <i>Physical Review Letters</i> , 2012, 108, 207202.	2.9	28
156	Scattering at magnetic and nonmagnetic impurities on surfaces with strong spin-orbit coupling. <i>Physical Review B</i> , 2012, 86, .	1.1	18
157	Surface states on a topologically nontrivial semimetal: The case of Sb(110). <i>Physical Review B</i> , 2012, 85, .	1.1	25
158	Spin-polarized surface states on Br/Ge(111)-(1 $\bar{1}$ –1): Surface spin polarization without heavy elements. <i>Physical Review B</i> , 2012, 86, .	1.1	16
159	Thermalization of photoexcited carriers in bismuth investigated by time-resolved terahertz spectroscopy and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2012, 85, .	1.1	34
160	Role of hybridization in the Rashba splitting of noble metal monolayers on W(110). <i>Physical Review B</i> , 2012, 86, .	1.1	11
161	Spin and orbital angular momentum structure of Cu(111) and Au(111) surface states. <i>Physical Review B</i> , 2012, 85, .	1.1	67
162	REEXAMINATION OF INFRARED SPECTRA OF Bi NANORODS: L α T TRANSITION OR EXTRINSIC PHASES. <i>Nano</i> , 2012, 07, 1230003.	0.5	3
163	Anomalous Rashba effect of bismuth(111) thin films studied by high-resolution spin- and angle-resolved photoemission spectroscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 04E107.	0.6	4

#	ARTICLE	IF	CITATIONS
164	Giant Anisotropy of Spin-Orbit Splitting at the Bismuth Surface. <i>Physical Review Letters</i> , 2012, 109, 226404.	2.9	31
165	The evolution of the electronic structure at the Bi/Ag(111) interface studied using photoemission spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 435502.	0.7	9
166	Coherent Phonon Coupling to Individual Bloch States in Photoexcited Bismuth. <i>Physical Review Letters</i> , 2012, 108, 256808.	2.9	70
167	Energy-Gap Opening in a Bi(110) Nanoribbon Induced by Edge Reconstruction. <i>Physical Review Letters</i> , 2012, 109, 246804.	2.9	62
168	Manipulation of Electronic Transport in the Bi(111) Surface State. <i>Physical Review Letters</i> , 2012, 108, 266804.	2.9	22
169	Higher-order contributions to the Rashba-Bychkov effect with application to the Bi/Ag(111) surface alloy. <i>Physical Review B</i> , 2012, 85, .	1.1	108
170	Tunable Spin Polarization in Bismuth Ultrathin Film on Si(111). <i>Nano Letters</i> , 2012, 12, 1776-1779.	4.5	65
171	Scanning tunneling microscopy of two-dimensional semiconductors: Spin properties and disorder. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1795-1814.	1.3	25
172	Extracting the near surface stoichiometry of BiFe _{0.5} Mn _{0.5} O ₃ thin films; a finite element maximum entropy approach. <i>Surface Science</i> , 2012, 606, 1771-1776.	0.8	4
173	Giant Ambipolar Rashba Effect in the Semiconductor BiTeI. <i>Physical Review Letters</i> , 2012, 109, 096803.	2.9	157
174	Ideal Two-Dimensional Electron Systems with a Giant Rashba-Type Spin Splitting in Real Materials: Surfaces of Bismuth Tellurohalides. <i>Physical Review Letters</i> , 2012, 108, 246802.	2.9	163
175	Giant Rashba-type spin splitting at polar surfaces of BiTeI. <i>JETP Letters</i> , 2012, 96, 437-444.	0.4	41
176	Effects of the electron-electron interaction on the surface of three-dimensional topological insulators. <i>JETP Letters</i> , 2012, 96, 480-485.	0.4	4
177	Probing two topological surface bands of Sb ₂ Te ₃ by spin-polarized photoemission spectroscopy. <i>Physical Review B</i> , 2012, 86, .	1.1	78
178	Large spin-orbit splitting of surface states in ultrathin Au (111) films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 377, 129-132.	0.9	4
179	Anisotropic surface-state-mediated RKKY interaction between adatoms. <i>Physical Review B</i> , 2012, 85, .	1.1	19
180	Electronic and quantum phase coherence properties of bismuth thin films. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	17
181	The electronic structure of clean and adsorbate-covered Bi ₂ Se ₃ : an angle-resolved photoemission study. <i>Semiconductor Science and Technology</i> , 2012, 27, 124001.	1.0	45

#	ARTICLE	IF	CITATIONS
182	Development of High-resolution Spin-resolved Photoemission Spectrometer and Its Application for Study of Surface Rashba Effects. Hyomen Kagaku, 2012, 33, 165-171.	0.0	0
183	Orbital Rashba effect and its detection by circular dichroism angle-resolved photoemission spectroscopy. Physical Review B, 2012, 85, .	1.1	82
184	Thickness dependence oscillations of transport properties in thin films of a topological insulator Bi ₉₁ Sb ₉ . Applied Physics Letters, 2012, 101, 023108.	1.5	5
185	Surface metallic states in ultrathin Bi(001) films studied with terahertz time-domain spectroscopy. Applied Physics Letters, 2012, 100, 251605.	1.5	30
186	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -band tight-binding model for the Bychkov-Rashba effect in a two-dimensional electron system including nearest-neighbor contributions from an electric field. Physical Review B, 2012, 86, .	1.1	59
187	Spin-orbit-induced photoelectron spin polarization in angle-resolved photoemission from both atomic and condensed matter targets. Journal of Physics Condensed Matter, 2012, 24, 173001.	0.7	106
188	Anomalous and spin Hall effects in a magnetic tunnel junction with Rashba spin-orbit coupling. Applied Physics Letters, 2013, 103, .	1.5	36
189	Magnetic Control of Spin-Orbit Fields: A First-Principles Study of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{GaAs} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Junctions. Physical Review Letters, 2013, 111, 036603.	2.9	30
190	Two-Dimensional Superconducting State of Monolayer Pb Films Grown on GaAs(110) in a Strong Parallel Magnetic Field. Physical Review Letters, 2013, 111, 057005.	2.9	74
191	Direct observation of electron thermalization and electron-phonon coupling in photoexcited bismuth. Physical Review B, 2013, 88, .	1.1	48
192	Electric Control of the Giant Rashba Effect in Bulk GeTe. Advanced Materials, 2013, 25, 509-513.	11.1	353
193	Large spin splitting of metallic surface-state bands at adsorbate-modified gold/silicon surfaces. Scientific Reports, 2013, 3, 1826.	1.6	51
194	Tunable Rashba Effect in Two-Dimensional LaOBi ₂ Films: Ultrathin Candidates for Spin Field Effect Transistors. Nano Letters, 2013, 13, 5264-5270.	4.5	100
195	Spin-to-charge conversion using Rashba coupling at the interface between non-magnetic materials. Nature Communications, 2013, 4, 2944.	5.8	661
196	Microscopic mechanism for asymmetric charge distribution in Rashba-type surface states and the origin of the energy splitting scale. Physical Review B, 2013, 88, .	1.1	36
197	Induced Rashba splitting of electronic states in monolayers of Au, Cu on a W(110) substrate. New Journal of Physics, 2013, 15, 095005.	1.2	17
198	Direct Observation of Molecular Orbitals in an Individual Single-Molecule Magnet Mn ₁₂ on Bi(111). ACS Nano, 2013, 7, 6825-6830.	7.3	19
199	Self-Assembled Nanowires with Giant Rashba Split Bands. Physical Review Letters, 2013, 110, 036801.	2.9	68

#	ARTICLE	IF	CITATIONS
200	Controlling Rashba spin splitting in Au(111) surface states through electric field. Physical Review B, 2013, 87, .	1.1	43
201	Quantum oscillations and optical conductivity in Rashba spin-splitting BiTeI. Physical Review B, 2013, 87, .	1.1	63
202	Effect of adsorbed magnetic and non-magnetic atoms on electronic transport through surfaces with strong spin-orbit coupling. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 210-217.	0.5	3
203	A new pathway towards all-electric spintronics: electric-field control of spin states through surface/interface effects. Science China: Physics, Mechanics and Astronomy, 2013, 56, 232-244.	2.0	11
204	Bismuth-based candidates for topological insulators: Chemistry beyond Bi_2Te_3 . Physica Status Solidi - Rapid Research Letters, 2013, 7, 39-49.	1.2	39
205	Phonons in ultrathin Bi(111) films: Role of spin-orbit coupling in electron-phonon interaction. Physical Review B, 2013, 87, .	1.1	23
206	Effect of a Highly Metallic Surface State on the Magneto-Transport Properties of Single Crystal Bi Films. Chinese Physics Letters, 2013, 30, 087305.	1.3	7
207	Interplay between Forward and Backward Scattering of Spin-Orbit Split Surface States of Bi(111). Nano Letters, 2013, 13, 2717-2722.	4.5	25
208	Effect of spin-orbit coupling on atomic-like and delocalized quantum well states in Au overlayers on W(110) and Mo(110). New Journal of Physics, 2013, 15, 125014.	1.2	6
209	Non-trivial surface-band dispersion on Bi(111). New Journal of Physics, 2013, 15, 033041.	1.2	62
210	Combined large spin splitting and one-dimensional confinement in surface alloys. New Journal of Physics, 2013, 15, 105013.	1.2	6
211	In situ transport measurements on ultrathin Bi(111) films using a magnetic tip: possible detection of current-induced spin polarization in the surface states. New Journal of Physics, 2013, 15, 105018.	1.2	8
212	Orbital-dependent Rashba coupling in bulk BiTeCl and BiTeI. New Journal of Physics, 2013, 15, 023010.	1.2	17
213	Rashba-type spin splitting at Au(111) beyond the Fermi level: the other part of the story. New Journal of Physics, 2013, 15, 105001.	1.2	47
214	Enhancing and reducing the Rashba-splitting at surfaces by adsorbates: Na and Xe on Bi/Cu(111). New Journal of Physics, 2013, 15, 115011.	1.2	24
215	Unoccupied electronic band structure of the semi-metallic Bi(111) surface probed with two-photon photoemission. Physical Review B, 2013, 87, .	1.1	11
216	Rotating Spin and Giant Splitting: Unoccupied Surface Electronic Structure of Bi_2Te_3 . Physical Review Letters, 2013, 110, 217601.	2.9	59
217	Unoccupied Surface Electronic Structure of Bi_2Te_3 and Cu -Doped Bi_2Te_3 . Physical Review Letters, 2013, 110, 217601.	2.9	67

#	ARTICLE	IF	CITATIONS
218	Orbital dependent Rashba splitting and electron-phonon coupling of 2D Bi phase on Cu(100) surface. Journal of Chemical Physics, 2013, 139, 184707.	1.2	4
219	Rashba-type spin splitting from interband scattering in quasiparticle interference maps. Physical Review B, 2013, 87, .	1.1	19
220	Spin- and Angle-Resolved Photoemission of Strongly Spin-Orbit Coupled Systems. Journal of the Physical Society of Japan, 2013, 82, 021002.	0.7	54
221	Rashba split surface states in BiTeBr. New Journal of Physics, 2013, 15, 075015.	1.2	51
222	Rashba Effect on the Structure of the Bi One-Bilayer Film: Fully Relativistic First-Principles Calculation. Japanese Journal of Applied Physics, 2013, 52, 035204.	0.8	29
223	Ultrafast electronic dynamics in laser-excited crystalline bismuth. EPJ Web of Conferences, 2013, 41, 04006.	0.1	0
224	Ab initio lattice dynamics and electron-phonon coupling of Bi(111). Physical Review B, 2014, 90, .	1.1	16
225	Rashba spin splitting of Shockley surface states on semi-infinite crystals. Physical Review B, 2014, 90, .	1.1	45
226	Rashba effect within the space-charge layer of a semiconductor. New Journal of Physics, 2014, 16, 045003.	1.2	7
227	Time-resolved photoemission apparatus achieving sub-20-meV energy resolution and high stability. Review of Scientific Instruments, 2014, 85, 123904.	0.6	62
228	Magnetic field resistant quantum interferences in Josephson junctions based on bismuth nanowires. Physical Review B, 2014, 90, .	1.1	27
229	Rashba splitting and relativistic energy shifts in In/Si(111) nanowires. Physical Review B, 2014, 89, .	1.1	19
230	Pressure variation of Rashba spin splitting toward topological transition in the polar semiconductor BiTeI. Physical Review B, 2014, 90, .	1.1	31
231	Theoretical model for Rashba spin-orbit interaction in d electrons. Physical Review B, 2014, 90, .	1.1	112
232	Mapping polarization induced surface band bending on the Rashba semiconductor BiTeI. Nature Communications, 2014, 5, 4066.	5.8	36
233	Giant Rashba spin splitting in Bi_2Se_3 :TL. Physica Status Solidi - Rapid Research Letters, 2014, 8, 849-852.	1.2	3
234	Scattering of charge carriers by Cr impurities in magnetotransport on a $\text{Bi}(1\%1\%)$ ultra-thin film. Journal of Physics Condensed Matter, 2014, 26, 225002.	0.7	3
235	Topological surface states on Bi_1Sb_x Dependence on surface orientation, termination, and stability. Physical Review B, 2014, 89, .	1.1	14

#	ARTICLE	IF	CITATIONS
236	Microscopic origin of the relativistic splitting of surface states. Physical Review B, 2014, 90, .	1.1	25
237	Scanning Tunneling Microscope and Photoemission Spectroscopy Investigations of Bismuth on Epitaxial Graphene on SiC(0001). Journal of Physical Chemistry C, 2014, 118, 24995-24999.	1.5	20
238	Emergence of electric polarity in BiTeX (X = Br and I) monolayers and the giant Rashba spin splitting. Physical Chemistry Chemical Physics, 2014, 16, 17603.	1.3	73
239	Ideal two-dimensional systems with a gain Rashba-type spin splitting: SrFBiS ₂ and BiOBiS ₂ nanosheets. Journal of Materials Chemistry C, 2014, 2, 8539-8545.	2.7	13
240	Evidence of Topological Two-Dimensional Metallic Surface States in Thin Bismuth Nanoribbons. ACS Nano, 2014, 8, 7506-7512.	7.3	30
241	Spin-Polarized Surface State in EuO(100). Physical Review Letters, 2014, 112, 016803.	2.9	14
242	Pressure tuning the Fermi level through the Dirac point of giant Rashba semiconductor BiTeI. Journal of Physics Condensed Matter, 2014, 26, 342202.	0.7	17
243	Enhanced quasiparticle dynamics of quantum well states: The giant Rashba system BiTeI and topological insulators. Physical Review B, 2014, 89, .	1.1	16
244	The gigantic Rashba effect of surface states energetically buried in the topological insulator Bi ₂ Te ₂ Se. New Journal of Physics, 2014, 16, 065016.	1.2	11
245	One-dimensional topological edge states of bismuth bilayers. Nature Physics, 2014, 10, 664-669.	6.5	320
246	Ab Initio Investigation of Bi-Rich Bi _{1-x} Sb _x Alloys. Journal of Electronic Materials, 2014, 43, 3110-3116.	1.0	2
247	Detectable spin-orbit splitting in Ni doped graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3196-3199.	0.9	1
248	Many-body interactions and Rashba splitting of the surface state on Cu(110). Physical Review B, 2014, 89, .	1.1	18
249	Rashba effect in antimony and bismuth studied by spin-resolved ARPES. New Journal of Physics, 2014, 16, 055004.	1.2	29
250	Spin-orbit coupling as a source of long-range triplet proximity effect in superconductor-ferromagnet hybrid structures. Physical Review B, 2014, 89, .	1.1	158
251	Relaxation dynamics of photoexcited charge carriers at the Bi(111) surface. Physical Review B, 2014, 89, .	1.1	5
252	Two-Dimensional Superconductivity with Broken Inversion Symmetry in One-Atomic-Layer Metal Films on Cleaved GaAs Surfaces. , 2014, , .		0
253	Surface band structure of Bi_2Te_3 . Physical Review B, 2015, 91, .		

#	ARTICLE	IF	CITATIONS
254	One-dimensional spin texture of Bi(441): Quantum spin Hall properties without a topological insulator. Physical Review B, 2015, 91, .	1.1	12
255	Theory of unconventional spin states in surfaces with non-Rashba spin-orbit interaction. Physical Review B, 2015, 91, .	1.1	15
256	Giant spin-orbit-induced spin splitting in Bi zigzag chains on GaAs(110). Physical Review B, 2015, 92, .	1.1	5
257	Electron density magnification of the collective spin-orbit field in quantum wells. Physical Review B, 2015, 92, .	1.1	10
258	Atomic structure and electronic properties of the two-dimensional $\text{Au}_{1-x}\text{Bi}_x$ alloys. Physical Review B, 2015, 92, .		
259	Thermoelectric probe for Fermi surface topology in the three-dimensional Rashba semiconductor BiTeI. Physical Review B, 2015, 92, .	1.1	15
260	Proximity-induced triplet superconductivity in Rashba materials. Physical Review B, 2015, 92, .	1.1	56
261	One-dimensional edge state of Bi thin film grown on Si(111). Applied Physics Letters, 2015, 107, .	1.5	35
262	A layered antiferromagnetic semiconductor EuMTe ₃ (M = Bi, Sb). Physica Status Solidi - Rapid Research Letters, 2015, 9, 735-739.	1.2	10
263	Barrier-free subsurface incorporation of Mn_3C atoms into Bi(111) films. Physical Review B, 2015, 91, .		
264	Focus on the Rashba effect. New Journal of Physics, 2015, 17, 050202.	1.2	190
265	New aspects of electronic excitations at the bismuth surface: Topology, thermalization and coupling to coherent phonons. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 60-65.	0.8	9
266	Microscopic mechanism for the Rashba spin-band splitting: Perspective from formation of local orbital angular momentum. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 6-17.	0.8	27
267	Double Path Interference and Magnetic Oscillations in Cooper Pair Transport through a Single Nanowire. Physical Review Letters, 2015, 114, 227001.	2.9	35
268	Spin-orbit coupling at surfaces and 2D materials. Journal of Physics Condensed Matter, 2015, 27, 493001.	0.7	32
269	Optical Properties of Atomically Thin Layered Transition Metal Dichalcogenide. Journal of the Physical Society of Japan, 2015, 84, 121009.	0.7	13
270	Symmetry induced peculiar Rashba effect on thallium adsorbed Si(1 1 1) surfaces. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 88-91.	0.8	6
271	One-Dimensional Edge States with Giant Spin Splitting in a Bismuth Thin Film. Physical Review Letters, 2015, 114, 066402.	2.9	76

#	ARTICLE	IF	CITATIONS
292	The Rashba and quantum size effects in ultrathin Bi films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 201, 98-104.	0.8	17
293	Engineering Topological Surface States and Giant Rashba Spin Splitting in BiTeI/Bi ₂ Te ₃ Heterostructures. <i>Scientific Reports</i> , 2015, 4, 3841.	1.6	32
294	Dirac Cones in Graphene, Interlayer Interaction in Layered Materials, and the Band Gap in MoS ₂ . <i>Crystals</i> , 2016, 6, 143.	1.0	38
295	The electronic structure and spin-orbit-induced spin splitting in antimonene with vacancy defects. <i>RSC Advances</i> , 2016, 6, 66140-66146.	1.7	38
296	Giant Rashba-type Spin Splitting in Ferroelectric GeTe(111). <i>Advanced Materials</i> , 2016, 28, 560-565.	11.1	155
297	Newtype large Rashba splitting in quantum well states induced by spin chirality in metal/topological insulator heterostructures. <i>NPG Asia Materials</i> , 2016, 8, e332-e332.	3.8	6
298	Proving Nontrivial Topology of Pure Bismuth by Quantum Confinement. <i>Physical Review Letters</i> , 2016, 117, 236402.	2.9	72
299	Topologically nontrivial bismuth(111) thin films. <i>Scientific Reports</i> , 2016, 6, 21326.	1.6	35
300	High-resolution three-dimensional spin- and angle-resolved photoelectron spectrometer using vacuum ultraviolet laser light. <i>Review of Scientific Instruments</i> , 2016, 87, 053111.	0.6	69
301	Topological phase transition of single-crystal Bi based on empirical tight-binding calculations. <i>New Journal of Physics</i> , 2016, 18, 123015.	1.2	18
302	Laser energy dependence of valley polarization in transition-metal dichalcogenides. <i>Physical Review B</i> , 2016, 94, .	1.1	18
303	In situ video-STM studies of the mechanisms and dynamics of electrochemical bismuth nanostructure formation on Au. <i>Faraday Discussions</i> , 2016, 193, 171-185.	1.6	18
304	Strain-tunable ferroelectricity and its control of Rashba effect in KTaO ₃ . <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	31
305	Evidence for spin to charge conversion in GeTe(111). <i>APL Materials</i> , 2016, 4, .	2.2	36
306	High repetition pump-and-probe photoemission spectroscopy based on a compact fiber laser system. <i>Review of Scientific Instruments</i> , 2016, 87, 123902.	0.6	16
307	Perspective: Interface generation of spin-orbit torques. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	42
308	Orbital control of Rashba spin orbit coupling in noble metal surfaces. <i>Journal of Applied Physics</i> , 2016, 119, 125310.	1.1	13
309	Bi induced superstructures on Si(110). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, 051401.	0.9	3

#	ARTICLE	IF	CITATIONS
310	Interesting pressure dependence of power factor in BiTe. Journal Physics D: Applied Physics, 2016, 49, 215107.	1.3	16
311	Quantum transport in the surface states of epitaxial Bi(111) thin films. Physical Review B, 2016, 94, .	1.1	13
312	Dirac-node arc in the topological line-node semimetal HfSiS. Physical Review B, 2016, 94, .	1.1	139
313	Quasiparticle Scattering in the Rashba Semiconductor BiTeBr: The Roles of Spin and Defect Lattice Site. ACS Nano, 2016, 10, 9361-9369.	7.3	5
314	Observation of Dirac surface states in the noncentrosymmetric superconductor BiPd. Physical Review B, 2016, 94, .	1.1	22
315	Electronic Band Structure of 2D TMDCs. Springer Series in Materials Science, 2016, , 165-226.	0.4	1
316	Thickness dependence of spin Hall angle of Au grown on YF_3 epitaxial surface. Physical Review B, 2016, 94, .	1.1	33
317	Nonlinear Rashba spin splitting in transition metal dichalcogenide monolayers. Nanoscale, 2016, 8, 17854-17860.	2.8	60
318	Interference evidence for Rashba-type spin splitting on a semimetallic eO_2 surface. Physical Review B, 2016, 94, .	1.1	11
319	Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. Physical Review B, 2016, 93, .	1.1	87
320	Topological fate of edge states of single Bi bilayer on Bi(111). Physical Review B, 2016, 93, .	1.1	26
321	Spin polarization of two-dimensional electronic gas decoupled from structural asymmetry environment. Physical Review B, 2016, 93, .	1.1	9
322	Rashba-Dresselhaus spin-splitting in the bulk ferroelectric oxide $BiAlO_3$. Physical Review B, 2016, 93, .	1.1	9
323	Unconventional spin texture in a noncentrosymmetric quantum spin Hall insulator. Physical Review B, 2016, 94, .	1.1	22
324	Multichannel Exchange-Scattering Spin Polarimetry. Physical Review Letters, 2016, 116, 177601.	2.9	30
325	Single and bilayer bismuthene: Stability at high temperature and mechanical and electronic properties. Physical Review B, 2016, 94, .	1.1	295
326	Rashba Effect in Presence of Time-Dependent Interaction. Communications in Theoretical Physics, 2016, 65, 543-545.	1.1	6
327	Tight-binding theory of surface spin states on bismuth thin films. Physical Review B, 2016, 93, .	1.1	17

#	ARTICLE	IF	CITATIONS
328	Interface-driven spin-torque ferromagnetic resonance by Rashba coupling at the interface between nonmagnetic materials. <i>Physical Review B</i> , 2016, 93, .	1.1	65
329	Effects of Dephasing on Spin Lifetime in Ballistic Spin-Orbit Materials. <i>Physical Review Letters</i> , 2016, 116, 086602.	2.9	54
330	Nonvortical Rashba Spin Structure on a Surface with C1hSymmetry. <i>Physical Review Letters</i> , 2016, 117, 016803.	2.9	15
331	The p-wave superconductivity in the presence of Rashba interaction in 2DEG. <i>Scientific Reports</i> , 2016, 6, 29919.	1.6	8
332	Rashba-Dirac cones at the tungsten surface: Insights from a tight-binding model and thin film subband structure. <i>Physical Review B</i> , 2016, 94, .	1.1	2
333	Large-Area Dry Transfer of Single-Crystalline Epitaxial Bismuth Thin Films. <i>Nano Letters</i> , 2016, 16, 6931-6938.	4.5	87
334	Observation of a nematic quantum Hall liquid on the surface of bismuth. <i>Science</i> , 2016, 354, 316-321.	6.0	72
335	Topological Crystalline Insulator in a New Bi Semiconducting Phase. <i>Scientific Reports</i> , 2016, 6, 21790.	1.6	12
336	Rashba spin-orbit coupling enhanced anomalous Hall effect in $\text{MnxSi}_{1-x}/\text{SiO}_2/\text{Si}$ junctions. <i>RSC Advances</i> , 2016, 6, 55930-55935.	1.7	4
337	Different spin textures in one-dimensional electronic bands on Si(553)-Au surface. <i>Applied Surface Science</i> , 2016, 373, 26-31.	3.1	17
338	Formation of Ideal Rashba States on Layered Semiconductor Surfaces Steered by Strain Engineering. <i>Nano Letters</i> , 2016, 16, 404-409.	4.5	44
339	Proximity-induced superconductivity in bismuth nanostripes. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 12LT02.	1.3	6
340	Chiral magnetism of magnetic adatoms generated by Rashba electrons. <i>New Journal of Physics</i> , 2017, 19, 023010.	1.2	18
341	Films based on group IV-VI elements for the design of a large-gap quantum spin Hall insulator with tunable Rashba splitting. <i>RSC Advances</i> , 2017, 7, 11636-11643.	1.7	6
342	Spin-dependent quantum interference in photoemission process from spin-orbit coupled states. <i>Nature Communications</i> , 2017, 8, 14588.	5.8	34
343	Correlation effects and quantum oscillations in topological nodal-loop semimetals. <i>Physical Review B</i> , 2017, 95, .	1.1	73
344	Topologically Entangled Rashba-Split Shockley States on the Surface of Grey Arsenic. <i>Physical Review Letters</i> , 2017, 118, 046802.	2.9	27
345	Adsorbate-induced modification of electronic band structure of epitaxial Bi(111) films. <i>Applied Surface Science</i> , 2017, 406, 122-127.	3.1	7

#	ARTICLE	IF	CITATIONS
346	Direct observation of spin-layer locking by local Rashba effect in monolayer semiconducting PtSe ₂ film. Nature Communications, 2017, 8, 14216.	5.8	151
347	Bulk rectification effect in a polar semiconductor. Nature Physics, 2017, 13, 578-583.	6.5	151
348	Time-reversal symmetry-breaking superconductivity in epitaxial bismuth/nickel bilayers. Science Advances, 2017, 3, e1602579.	4.7	71
349	Surface current at non-magnetic metal/ferromagnetic insulator interface due to Rashba spin-orbit interaction. Journal of Magnetism and Magnetic Materials, 2017, 441, 572-577.	1.0	5
350	One-atom-layer compounds on silicon and germanium. Japanese Journal of Applied Physics, 2017, 56, 08LA01.	0.8	14
351	Wide-range ideal 2D Rashba electron gas with large spin splitting in Bi ₂ Se ₃ /MoTe ₂ heterostructure. Npj Computational Materials, 2017, 3, .	3.5	25
352	Spin to Charge Interconversion Phenomena in the Interface and Surface States. Journal of the Physical Society of Japan, 2017, 86, 011001.	0.7	43
353	Pressure-induced superconductivity in the giant Rashba system BiTeI. Journal of Physics Condensed Matter, 2017, 29, 09LT02.	0.7	11
354	Spin Orientation of Two-Dimensional Electrons Driven by Temperature-Tunable Competition of Spin-Orbit and Exchange-Magnetic Interactions. Nano Letters, 2017, 17, 811-820.	4.5	28
355	Prediction of electronic structure of van der Waals interfaces: Benzene adsorbed monolayer MoS ₂ , WS ₂ and WTe ₂ . Physica E: Low-Dimensional Systems and Nanostructures, 2017, 88, 87-96.	1.3	8
356	Structural evolution of Bi thin films on Au(111) revealed by scanning tunneling microscopy. Physical Review B, 2017, 96, .	1.1	20
357	First-principles prediction of TI/SiC for valleytronics. Journal of Materials Chemistry C, 2017, 5, 10427-10433.	2.7	12
358	Selective Hydrogen Etching Leads to 2D Bi(111) Bilayers on Bi ₂ Se ₃ : Large Rashba Splitting in Topological Insulator Heterostructure. Chemistry of Materials, 2017, 29, 8992-9000.	3.2	13
359	Calculation of spin states of photoelectrons emitted from spin-polarized surface states of Bi(111) surfaces with a mirror symmetry. Physical Review B, 2017, 95, .	1.1	7
360	Defect-induced large spin-orbit splitting in monolayer PtSe_2 . Physical Review B, 2017, 96, .	1.1	19
361	Tuning pairing amplitude and spin-triplet texture by curving superconducting nanostructures. Physical Review B, 2017, 96, .	1.1	22
362	Giant tunable Rashba spin splitting in a two-dimensional BiSb monolayer and in BiSb/AlN heterostructures. Physical Review B, 2017, 95, .	1.1	127
363	Orbital angular momentum analysis for giant spin splitting in solids and nanostructures. Scientific Reports, 2017, 7, 2024.	1.6	25

#	ARTICLE	IF	CITATIONS
364	Creating anisotropic spin-split surface states in momentum space by molecular adsorption. Physical Review B, 2017, 96, .	1.1	6
365	Strain and electric field tunable electronic structure of buckled bismuthene. RSC Advances, 2017, 7, 39546-39555.	1.7	53
366	Electrically controllable spin filtering based on superconducting helical states. Physical Review B, 2017, 96, .	1.1	13
367	Covariant Conservation Laws and the Spin Hall Effect in Dirac-Rashba Systems. Physical Review Letters, 2017, 119, 246801.	2.9	46
368	Edge states in mesoscopic Bi islands on superconducting Nb(110). Physical Review B, 2017, 96, .	1.1	6
369	Anomalous Nernst effect in Ir ₂₂ Mn ₇₈ /Co ₂₀ Fe ₆₀ B ₂₀ /MgO layers with perpendicular magnetic anisotropy. Applied Physics Letters, 2017, 111, .	1.5	24
370	Large Spin Splitting and Interfacial States in a Bi/BaTiO_3 Heterostructure. Physical Review Letters, 2017, 117, 087201.	1.1	13
371	Reversible spin texture in ferroelectric $\text{HfO}_2/\text{Bi}_2\text{Te}_3$ heterostructure. Physical Review B, 2017, 95, .	1.1	80
372	Quasiclassical theory of magnetoelectric effects in superconducting heterostructures in the presence of spin-orbit coupling. Physical Review B, 2017, 95, .	1.1	38
373	Tunable Rashba spin splitting in quantum-spin Hall-insulator AsF bilayers. Nano Research, 2017, 10, 491-502.	5.8	16
374	Decay length of surface-state wave functions on $\text{Bi}(111)$. Journal of Physics Condensed Matter, 2017, 29, 015002.	0.7	7
375	Resolving the one-dimensional singularity edge states of $\text{Bi}(111)$ thin films. Journal of Physics Condensed Matter, 2017, 29, 185002.	0.7	7
376	Modification of electronic structure, magnetic structure, and topological phase of bismuthene by point defects. Physical Review B, 2017, 96, .	1.1	54
377	Designing the Rashba spin texture by adsorption of inorganic molecules. New Journal of Physics, 2017, 19, 043017.	1.2	8
378	Inductive detection of fieldlike and dampinglike ac inverse spin-orbit torques in ferromagnet/normal-metal bilayers. Physical Review B, 2018, 97, .	1.1	34
379	Peculiar Rashba spin texture induced by C_{3v} symmetry on the $\text{Bi}(111)$ surface revisited. Physical Review B, 2018, 97, .	1.1	6
380	Exact results relating spin-orbit interactions in two-dimensional strongly correlated systems. Philosophical Magazine, 2018, 98, 1708-1730.	0.7	2
381	Tunable electronic and magnetic properties of antimonene system via Fe doping and defect complex: A first-principles perspective. Applied Surface Science, 2018, 448, 281-287.	3.1	24

Rashba effect and enriched spin-valley coupling in GaX IF CITATIONS
xmls:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ga</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:math>
/<mml:math
382 xmls:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:msub><mml:mi>X</mml:mi><mml:mi>

#	ARTICLE	IF	CITATIONS
400	Recent Progress of Janus 2D Transition Metal Chalcogenides: From Theory to Experiments. <i>Small</i> , 2018, 14, e1802091.	5.2	247
401	FMR-related phenomena in spintronic devices. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 273002.	1.3	70
402	Exfoliation of single layer BiTeI flakes. <i>2D Materials</i> , 2018, 5, 031013.	2.0	34
403	Quantum materials for spin and charge conversion. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	132
404	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. <i>Nature Physics</i> , 2018, 14, 796-800.	6.5	11
405	Electronic and crystal structure of the Pt(111)-($\sqrt{3}\times\sqrt{3}$)R30 $^\circ$ -K system. <i>Surface Science</i> , 2018, 678, 99d05.	1.1	1
406	Ubiquitous Spin-Orbit Coupling in a Screw Dislocation with High Spin Coherency. <i>Physical Review Letters</i> , 2018, 121, 066401.	2.9	29
407	Competing edge structures of Sb and Bi bilayers generated by trivial and nontrivial band topologies. <i>Physical Review B</i> , 2018, 98, .	1.1	5
408	Sub-200 fs soliton mode-locked fiber laser based on bismuthene saturable absorber. <i>Optics Express</i> , 2018, 26, 22750.	1.7	289
409	Inherent orbital spin textures in Rashba effect and their implications in spin-orbitronics. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 285502.	0.7	3
410	Strong Rashba effect in the localized impurity states of halogen-doped monolayer PtSe_2 . <i>Physical Review B</i> , 2018, 97, .	1.1	34
411	Statics and dynamics of multivalley charge density waves in Sb(111). <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	14
412	Interlayer RKKY coupling in bulk Rashba semiconductors under topological phase transition. <i>Physical Review B</i> , 2019, 100, .	1.1	7
413	Analysis of Rashba Effect on Au(111) Model Surface. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 034604.	0.7	0
414	Rashba-like spin splitting along three momentum directions in trigonal layered PtBi_2 . <i>Nature Communications</i> , 2019, 10, 4765.	5.8	42
415	Tunable giant Rashba-type spin splitting in $\text{PtSe}_2/\text{MoSe}_2$ heterostructure. <i>Applied Physics Letters</i> , 2019, 115, 203501.	1.5	15
416	Low-Energy Phases of Bi Monolayer Predicted by Structure Search in Two Dimensions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7324-7332.	2.1	18
417	Zeeman-type spin splitting in nonmagnetic three-dimensional compounds. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	23

#	ARTICLE	IF	CITATIONS
436	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138
437	Studies on the origin of the interfacial superconductivity of $Sb_{2-x}Te_{3-x}/Fe_{1+y}Te$ heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 221-227.	3.3	19
438	Fingerprint of the inverse Rashba-Edelstein effect at heavy-metal/Cu interfaces. Physical Review B, 2020, 102, .	1.1	12
439	Emergence of Van Hove singularity and topological states in $Pb_3Bi/Ge(111)$ Rashba systems. Physical Review B, 2020, 102, .	1.1	10
440	Unusual temperature evolution of the band structure of Bi(111) studied by angle-resolved photoemission spectroscopy and density functional theory. Physical Review B, 2020, 102, .	1.1	2
441	Dynamic Nuclear Spin Polarization Induced by the Edelstein Effect at Bi(111) Surfaces. Physical Review Letters, 2020, 125, 106802.	2.9	2
442	Physical vapor deposited 2D bismuth for CMOS technology. Journal of Semiconductors, 2020, 41, 081001.	2.0	7
443	Rashba Effect in Functional Spintronic Devices. Advanced Materials, 2020, 32, e2002117.	11.1	77
444	Thickness-dependent electronic transport through epitaxial nontrivial Bi quantum films. Physical Review B, 2020, 102, .	1.1	9
445	Ultrahigh Out-of-Plane Piezoelectricity Meets Giant Rashba Effect in 2D Janus Monolayers and Bilayers of Group IV Transition-Metal Trichalcogenides. Journal of Physical Chemistry C, 2020, 124, 21250-21260.	1.5	87
446	Unveiling giant hidden Rashba effects in two-dimensional Si_2Bi_2 . Npj 2D Materials and Applications, 2020, 4, .	3.9	14
447	Giant Rashba splitting in one-dimensional atomic tellurium chains. Nanoscale, 2020, 12, 10277-10283.	2.8	12
448	Adsorption of O and Cl on $Tl/Si(111)$ —“Suppressed spin polarization via bilayer formation. Surface Science, 2020, 696, 121598.	0.8	0
449	Spin-orbit splitting of quantum well states in $Ir/Au(111)$ heterostructures. Physical Review B, 2020, 101, .	1.1	0
450	Gully quantum Hall ferromagnetism in biased trilayer graphene. Physical Review B, 2020, 101, .	1.1	3
451	Scanning tunneling spectroscopy studies of topological materials. Journal of Physics Condensed Matter, 2020, 32, 243001.	0.7	7
452	Novel two-dimensional monoelemental and ternary materials: growth, physics and application. Nanophotonics, 2020, 9, 2147-2168.	2.9	29
453	Bismuthene: Epitaxially grown on $MoTe_2$ and its grain boundary. Journal of Crystal Growth, 2020, 546, 125787.	0.7	3

#	ARTICLE	IF	CITATIONS
454	Doping-induced topological phase transition in Bi: The role of quantum electronic stress. Physical Review B, 2020, 101, .	1.1	11
455	Tunable Rashba spin splitting in Janus transition-metal dichalcogenide monolayers <i>via</i> charge doping. RSC Advances, 2020, 10, 6388-6394.	1.7	55
456	One dimensional electronic states in mirror twin boundaries of Bi (1 \hat{A} 1 \hat{A} 1). Applied Surface Science, 2020, 512, 145644.	3.1	3
457	Spin-charge interconversion in heterostructures based on group-IV semiconductors. Rivista Del Nuovo Cimento, 2020, 43, 45-96.	2.0	9
458	Origin of Rashba-Dresselhaus effect in the ferroelectric nitride perovskite <math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaWN</mml:mi><mml:mn>3</mml:mn></mml:msub></math> Physical Review B, 2020, 101, .		
459	Electronic Structures and Lattice Dynamics of Layered BiOCl Single Crystals. Journal of Physical Chemistry Letters, 2020, 11, 1038-1044.	2.1	39
460	Rashba spin-orbit coupling in two-dimensional systems. , 2020, , 25-64.		2
461	A Giant Bulk-type Dresselhaus Splitting with 3D Chiral Spin Texture in IrBiSe. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900684.	1.2	7
462	Orbital-Driven Rashba Effect in a Binary Honeycomb Monolayer AgTe. Physical Review Letters, 2020, 124, 176401.	2.9	33
463	Synthesis of yttrium iron garnet/bismuth quantum dot heterostructures with localized plasmon enhanced magneto-optical performance. Journal of Materials Science and Technology, 2020, 51, 32-39.	5.6	9
464	Electrical transport properties in group-V elemental ultrathin 2D layers. Npj 2D Materials and Applications, 2020, 4, .	3.9	35
465	Electric field control of Rashba spin splitting in 2D N^{III}X^{VI} (N=As, Sb, Bi; X=Ga, In; X=As, Sb, Bi)	0.7	17
466	Epitaxial Growth of Main Group Monoelemental 2D Materials. Advanced Functional Materials, 2021, 31, 2006997.	7.8	37
467	Prediction of giant and ideal Rashba-type splitting in ordered alloy monolayers grown on a polar surface. National Science Review, 2021, 8, nwaa241.	4.6	9
468	Emerging Mono-elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. Advanced Functional Materials, 2021, 31, 2007584.	7.8	102
469	Angle, Spin, and Depth Resolved Photoelectron Spectroscopy on Quantum Materials. Chemical Reviews, 2021, 121, 2816-2856.	23.0	16
470	Effects of the thickness and laser irradiation on the electrical properties of e-beam evaporated 2D bismuth. Nanoscale, 2021, 13, 2648-2657.	2.8	13
471	Large band splitting with tunable spin polarization in the two-dimensional ferroelectric <math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ga</mml:mi><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></math>		

#	ARTICLE	IF	CITATIONS
472	Perspectives of spin-textured ferroelectrics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 113001.	1.3	53
473	Large Rashba splitting, carrier mobility, and valley polarization in a $1T\text{-SnS}_2/\text{MoTe}_2$ heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16242-16247.	1.3	6
474	Orbital-dependent spin textures in ferroelectric Rashba systems. <i>Physical Review B</i> , 2021, 103, .	1.1	5
475	Rashba Effect and Raman Spectra of $\text{TiO}_2/\text{PtS}_2$ Heterostructure. <i>ACS Omega</i> , 2021, 6, 4044-4050.	1.6	6
476	What Dictates Rashba Splitting in 2D van der Waals Heterobilayers. <i>Journal of the American Chemical Society</i> , 2021, 143, 3503-3508.	6.6	21
477	Tunable Rashba Spin Splitting in Two-Dimensional Polar Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1932-1939.	2.1	22
478	Direct band gap and strong Rashba effect in van der Waals heterostructures of InSe and Sb single layers. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 155001.	0.7	4
479	Evidence for a large Rashba splitting in PtPb_4 from angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2021, 103, .	1.1	3
480	Prediction of intrinsic topological superconductivity in Mn-doped GeTe monolayer from first-principles. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	15
481	Mapping the evolution of Bi/Ge(111) empty states: From the wetting layer to pseudo-cubic islands. <i>Journal of Applied Physics</i> , 2021, 129, 155310.	1.1	2
482	Atomically Thin Quantum Spin Hall Insulators. <i>Advanced Materials</i> , 2021, 33, e2008029.	11.1	28
483	Persistent spin texture in tetragonal BiFeO_3 . <i>Japanese Journal of Applied Physics</i> , 2021, 60, 050906.	0.8	5
484	Chemical control of the Rashba spin splitting size of Γ_6 -GeTe(111) surface states by adjusting the potential at the topmost atomic layer. <i>Physical Review B</i> , 2021, 103, .	1.1	1
485	Atomic mechanism of the phase transition in monolayer bismuthene on copper oxide. <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
486	Observation of nonreciprocal superconducting critical field. <i>Applied Physics Express</i> , 2021, 14, 073003.	1.1	17
487	Do equidistant energy levels necessitate a harmonic potential?. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	2
488	Narrow-bandgap materials for optoelectronics applications. <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	28
489	Magnetoconductance in epitaxial bismuth quantum films: Beyond weak (anti)localization. <i>Physical Review B</i> , 2021, 104, .	1.1	5

#	ARTICLE	IF	CITATIONS
490	Giant Rashba-like spin-orbit splitting with distinct spin texture in two-dimensional heterostructures*. Chinese Physics B, 2021, 30, 087307.	0.7	0
491	Rashba states situated inside the band gap of InTe/PtSe ₂ heterostructure. Results in Physics, 2021, 28, 104673.	2.0	4
492	Evidence of two-dimensional flat band at the surface of antiferromagnetic kagome metal FeSn. Nature Communications, 2021, 12, 5345.	5.8	34
493	Reversible spin textures with giant spin splitting in two-dimensional GaXY (X=Se , Te; Y=Cl , Br, I) compounds for a persistent spin helix. Physical Review B, 2021, 104, .	1.1	11
494	Z^2 topology of bismuth. Physical Review Materials, 2021, 5, .	0.9	11
495	Coexisting unconventional Rashba- and Zeeman-type spin splitting in Pb-adsorbed monolayer WSe ₂ . Journal of Physics Condensed Matter, 2021, 34, .	0.7	0
496	Strain-controlled Rashba spin-orbit coupling effect in SnS and SnSe monolayers. Materials and Design, 2021, 209, 110005.	3.3	9
497	Superior thermoelectric cooling performance by suppressing bipolar diffusion effect and enhancing anisotropic texture in p/n-type Bi ₂ Te ₃ based compounds. Journal of Alloys and Compounds, 2021, 888, 161572.	2.8	14
498	Controllable charge-spin conversion by Rashba-Edelstein effect at Cu/Ta interface. Journal of Magnetism and Magnetic Materials, 2021, 540, 168462.	1.0	6
499	Giant and tunable Rashba spin splitting in MoS ₂ /Bi ₂ Te ₃ heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 135, 114944.	1.3	8
500	Surface Landau levels and spin states in bismuth (111) ultrathin films. Nature Communications, 2016, 7, 10814.	5.8	45
501	Dipole control of Rashba spin splitting in a type-II Sb/InSe van der Waals heterostructure. Journal of Physics Condensed Matter, 2021, 33, 045501.	0.7	5
502	Size-dependent structural and electronic properties of Bi(111) ultrathin nanofilms from first principles. Physical Review Materials, 2017, 1, .	0.9	16
503	Composition-dependent structural transition in epitaxial Bi _{1-x} Te _x thin films on Si(111). Physical Review Materials, 2019, 3, .	0.9	10
504	Quantum materials interfaces: Graphene/bismuth (111) heterostructures. Physical Review Research, 2020, 2, .	1.3	4
505	Unveiling the complete dispersion of the giant Rashba split surface states of ferroelectric Bi ₂ Te ₃ by alkali doping. Physical Review Research, 2020, 2, .	1.0	10
506	Observation of Peculiar Rashba-Type Spin-Split Band on Bi(111) Surface by High-Resolution Spin- and Angle-Resolved Photoemission Spectroscopy. E-Journal of Surface Science and Nanotechnology, 2012, 10, 153-156.	0.1	10
507	Bismuth Growth on Ge(111): Evolution of Morphological Changes From Nanocrystals to Films. Ukrainian Journal of Physics, 2014, 59, 805-818.	0.1	5

#	ARTICLE	IF	CITATIONS
529	How can the unstable two-dimensional Sn ₂ Bi be experimentally realized on Si(111)? Journal of Nanoparticle Research, 2022, 24, 1.	0.8	1
530	Interface-driven spin pumping and inverse Rashba-Edelstein effect in FeGaB/Ag/BiSb multilayers. AIP Advances, 2022, 12, 035028.	0.6	4
531	Thickness dependent band structure of $\hat{\Gamma}$ -bismuthene grown on epitaxial graphene. Journal of Physics Condensed Matter, 2022, 34, 235502.	0.7	3
532	Spin-polarized charge transport through a single barrier in HgTe/CdTe heterostructure interface. Solid State Communications, 2022, 350, 114772.	0.9	2
533	DFT study of Sb layers on the Mo(112) surface. Physica B: Condensed Matter, 2022, 636, 413894.	1.3	3
534	Fano interference in nanoscale bismuth constrictions. Physical Review B, 2021, 104, .	1.1	1
535	Charge-spin interconversion in graphene-based systems from density functional theory. Physical Review B, 2021, 104, .	1.1	3
536	First-Principle Studies of the Enhancement of Rashba Effect in Ultrathin GeTe Films by Structural Engineering. Annalen Der Physik, 0, , 2100603.	0.9	1
539	Rashba and Dresselhaus effects in two-dimensional Pb-I-based perovskites. Physical Review B, 2022, 105, .	1.1	7
540	Ag growth on the Ag ₂ Bi Rashba alloy. Surface Science, 2022, , 122125.	0.8	0
541	Generation of mode-locked thulium/holmium-doped fiber laser assisted by bismuthene/side polished fiber as saturable absorber. Laser Physics Letters, 2022, 19, 075103.	0.6	3
542	Rashba effect and flat band in one-dimensional helical Se atomic chain. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
543	T-Phase and H-Phase Coupled TMD van der Waals Heterostructure ZrS ₂ /MoTe ₂ with Both Rashba Spin Splitting and Type-III Band Alignment. Journal of Physical Chemistry C, 2022, 126, 10601-10609.	1.5	5
544	Epitaxial growth of one-monolayer Pb _{1-x} Bi _x alloy films. Physica Status Solidi (B): Basic Research, 0, , .	0.7	2
545	Giant Rashba Spin Splitting in Sb/Bi ₂ Se ₃ /Sb and Sb/Sb ₂ Te ₃ /Sb Heterojunctions. Journal of Electronic Materials, 0, , .	1.0	0
546	Spin-polarized electrons in atomic layer materials formed on solid surfaces. Progress in Surface Science, 2022, 97, 100665.	3.8	1
547	Giant tunable Rashba spin splitting in two-dimensional polar perovskites TlSnX ₃ (X = Cl,) Tj ETQq0 0 0 rgBT /Overlock 10 TF	1.5	3
548	Rashba-Edelstein Effect in the hBN Van Der Waals Interface for Magnetization Switching. Advanced Materials, 2022, 34, .	11.1	9

#	ARTICLE	IF	CITATIONS
549	Topological surface states in ultrathin Bi_2Te_3 layers. Physical Review Materials, 2022, 6, .	0.9	6
550	Coherent Picture on the Pure Spin Transport between Ag and Ferromagnets. Physical Review Letters, 2022, 129, .	2.9	2
551	Bismuthene quantum dots integrated D-shaped fiber as saturable absorber for multi-type soliton fiber lasers. Journal of Materiomics, 2023, 9, 183-190.	2.8	13
552	Spin- and angle-resolved inverse photoemission setup with spin orientation independent from electron incidence angle. Review of Scientific Instruments, 2022, 93, 093904.	0.6	3
553	Carrier properties of $\text{Bi}(111)$ grown on mica and $\text{Si}(111)$. Physical Review Materials, 2022, 6, .	0.9	2
554	Electronic structure of Bi nanolines on $\text{InAs}(100)$. Applied Surface Science, 2022, , 155436.	3.1	0
555	MX family: an efficient platform for topological spintronics based on Rashba and Zeeman-like spin splittings. Journal of Physics Condensed Matter, 2023, 35, 015001.	0.7	3
556	Reversible canted persistent spin textures in two-dimensional ferroelectric bilayer WTe_2 . Journal of Applied Physics, 2022, 132, 183906.	1.1	2
557	Role of spin currents on electron-electron interaction in the quantum spin Hall phase. Physical Review B, 2022, 106, .	1.1	6
558	Anisotropic spin-to-charge conversion in bismuth. Physical Review B, 2022, 106, .	1.1	2
559	The Rashba Splitting in SmB_6 . Journal of Experimental and Theoretical Physics, 2022, 135, 596-603.	0.2	0
560	Long-range permeation of wave function and superficial surface state due to strong quantum size effects in topological Bi/BiSb heterojunctions. Physical Review B, 2022, 106, .	1.1	0
561	$\text{Bi}_2\text{O}_2\text{Se}$: A rising star for semiconductor devices. Matter, 2022, 5, 4274-4314.	5.0	20
562	First-principles study on the electronic structures and topological properties of $\text{Bi}(110)/\text{IV-VI}$ and $\text{Bi}(110)/\text{V-V}$ van der Waals heterostructures. Applied Surface Science, 2023, 614, 156027.	3.1	2
563	Giant and tunable Rashba spin splitting and Quantum Spin Hall Effect in H-Pb-Cl . Wuli Xuebao/Acta Physica Sinica, 2023, .	0.2	0
564	Colloquium : Quantum anomalous Hall effect. Reviews of Modern Physics, 2023, 95, .	16.4	88
565	Photovoltaic effect in metal foils and crystals of topological insulators. CrystEngComm, 0, , .	1.3	1
566	Effects of atomic corrugations on the electronic structures in Pb_2Bi thin films. Chinese Physics B, 0, , .	0.7	0

#	ARTICLE	IF	CITATIONS
567	Giant Rashba effect and nonlinear anomalous Hall conductivity in a two-dimensional molybdenum-based Janus structure. <i>Physical Review B</i> , 2023, 107, .	1.1	1
568	Structural properties of Bi/Au(110). <i>Nanotechnology</i> , 2023, 34, 235601.	1.3	0
569	Spin Hall effect induced by strain coupling of valley and spin polarization in puckered monochalcogenide tellurene monolayer. <i>Physical Review B</i> , 2023, 107, .	1.1	2
575	Coexistence of Magnon-Induced and Rashba-Induced Unidirectional Magnetoresistance in Antiferromagnets. <i>Nano Letters</i> , 2023, 23, 6378-6385.	4.5	1
581	Tailoring the electronic structure of thin Bi films via the growth on vicinal Ge(111)., 2023, , .		0
587	Rashba effect: a chemical physicist's approach. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 30099-30115.	1.3	0