

François Bertran

List of Publications by Year in descending order

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160
papers

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citations

71102

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161
all docs

161
docs citations

161
times ranked

8586
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional electron gas with universal subbands at the surface of SrTiO ₃ . Nature, 2011, 469, 189-193.	27.8	634
2	First Direct Observation of a Nearly Ideal Graphene Band Structure. Physical Review Letters, 2009, 103, 226803.	7.8	399
3	Spin to Charge Conversion at Room Temperature by Spin Pumping into a New Type of Topological Insulator: $\hat{\sigma} \cdot \hat{p}$ -Sn Films. Physical Review Letters, 2016, 116, 096602.	7.8	288
4	Electronic Structure and Enhanced Charge-Density Wave Order of Monolayer VSe ₂ . Nano Letters, 2018, 18, 4493-4499.	9.1	200
5	A wide-bandgap metal-semiconductor-metal nanostructure made entirely from graphene. Nature Physics, 2013, 9, 49-54.	16.7	174
6	Universal Fabrication of 2D Electron Systems in Functional Oxides. Advanced Materials, 2016, 28, 1976-1980.	21.0	129
7	Direct observation of a highly spin-polarized organic spinterface at room temperature. Scientific Reports, 2013, 3, 1272.	3.3	118
8	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate $W\text{Te}_2$. Physical Review B, 2016, 94, .	3.2	115
9	Orbital-dependent Fermi surface shrinking as a fingerprint of nematicity in FeSe. Physical Review B, 2016, 94, .	3.2	100
10	Nesting between hole and electron pockets in BaBiO_3 . Physical Review B, 2009, 80, .	3.2	97
11	Symmetry breaking in commensurate graphene rotational stacking: Comparison of theory and experiment. Physical Review B, 2011, 83, .	3.2	96
12	Dirac Cone with Helical Spin Polarization in Ultrathin Sn(001) Films. Physical Review Letters, 2013, 111, 216401.	7.8	93
13	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. Nature Communications, 2016, 7, 10235.	12.8	91
14	Tuning across the BCS-BEC crossover in the multiband superconductor $\text{FeTe}_{1-x}\text{Se}_x$: An angle-resolved photoemission study. Science Advances, 2017, 3, e1602372.	10.3	87
15	Tunable Doping in Hydrogenated Single Layered Molybdenum Disulfide. ACS Nano, 2017, 11, 1755-1761.	14.6	86
16	Orbital symmetry reconstruction and strong mass renormalization in the two-dimensional electron gas at the surface of KTaO_3 . Physical Review B, 2012, 86, .	3.2	82
17	Impact of the two Fe unit cell on the electronic structure measured by ARPES in iron pnictides. Physical Review B, 2012, 86, .	3.2	75
18	Large area molybdenum disulfide- epitaxial graphene vertical Van der Waals heterostructures. Scientific Reports, 2016, 6, 26656.	3.3	73

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19	Orientational Tuning of the Fermi Sea of Confined Electrons at the SrTiO_3 and (111) Surfaces. <i>Physical Review Applied</i> , 2014, 1, .	3.8	69
20	Entanglement and manipulation of the magnetic and spin-orbit order in multiferroic Rashba semiconductors. <i>Nature Communications</i> , 2016, 7, 13071.	12.8	68
21	Multilayer epitaxial graphene grown on the surface; structure and electronic properties. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374006.	2.8	66
22	High Spin Polarization at Ferromagnetic Metal-Organic Interfaces: A Generic Property. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2310-2315.	4.6	66
23	Ultralow Magnetic Damping in Co_2Mn -Based Heusler Compounds: Promising Materials for Spintronics. <i>Physical Review Applied</i> , 2019, 11, .	3.8	66
24	Direct evidence for minority spin gap in the C_oMnSi Heusler compound. <i>Physical Review B</i> , 2016, 93, .	3.2	65
25	4f-orbital and spin magnetism in cerium intermetallic compounds studied by magnetic circular x-ray dichroism. <i>Physical Review B</i> , 1994, 50, 2985-2989.	3.2	63
26	Electronic band structure of Two-Dimensional WS_2 /Graphene van der Waals Heterostructures. <i>Physical Review B</i> , 2018, 97, .	3.2	63
27	Non-trivial surface-band dispersion on Bi(111). <i>New Journal of Physics</i> , 2013, 15, 033041.	2.9	62
28	Large Temperature Dependence of the Number of Carriers in Co-Doped BaFe_2As_2 . <i>Physical Review Letters</i> , 2013, 110, 167002.	7.8	61
29	Significant Reduction of Electronic Correlations upon Isovalent Ru Substitution of BaFe_2As_2 Interface Dipole and band bending in the hybrid	7.8	57
30	heterojunction MoS_2 / GaN	3.2	57
31	$\text{FeCo/MgO/Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 252 Td}$ (stretchy="false")	3.8	56
32	Two-dimensional electron gas with six-fold symmetry at the (111) surface of KTaO_3 . <i>Scientific Reports</i> , 2014, 4, 3586.	3.3	53
33	Influence of misfit dislocations on the magnetoresistance of MgO -based epitaxial magnetic tunnel junctions. <i>Physical Review B</i> , 2010, 82, .	3.2	51
34	Engineering two-dimensional electron gases at the (001) and (101) surfaces of TiO_2 anatase using light. <i>Physical Review B</i> , 2015, 92, .	3.2	51
35	Van der Waals epitaxy of two-dimensional single-layer h-BN on graphite by molecular beam epitaxy: Electronic properties and band structure. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	50
36	Transfer of spectral weight across the gap of SrTiO_3 by La doping. <i>Physical Review B</i> , 2015, 92, .	2.2	49

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37	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. <i>Science Advances</i> , 2017, 3, e1501692.	10.3	48
38	Hubbard band versus oxygen vacancy states in the correlated electron metal SrVO_3 . <i>Physical Review B</i> , 2016, 94, .	3.2	40
39	Electronic properties of Fe, Co, and Mn ultrathin films at the interface with MgO(001). <i>Physical Review B</i> , 2005, 72, .	3.2	45
40	Polarization of Fe(001) covered by MgO analyzed by spin-resolved x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2003, 68, .	3.2	44
41	Surface Kondo effect and non-trivial metallic state of the Kondo insulator YbB12. <i>Nature Communications</i> , 2016, 7, 12690.	12.8	44
42	Direct Evidence of the Role of Hybridization in the X-Ray Magnetic Circular Dichroism of Ce . <i>Physical Review Letters</i> , 1995, 75, 4654-4657.	7.8	41
43	Surface state in epitaxial Ag ultrathin films on Cu(). <i>Surface Science</i> , 2002, 496, L43-L49.	1.9	41
44	Rashba coupling amplification by a staggered crystal field. <i>Nature Communications</i> , 2016, 7, 11258.	12.8	41
45	Dispersion and spin polarization in thin films of FeO . <i>Physical Review B</i> , 2006, 74, 040401.	3.2	40
46	On the quality of molecular-beam epitaxy grown Fe/MgO and Co/MgO (001) interfaces. <i>Journal of Applied Physics</i> , 2006, 99, 08D301.	2.5	36
47	Topological transition in Bi_2Te_3 . <i>Physical Review Letters</i> , 2011, 106, 086401.	3.2	32
48	Giant Anisotropy of Spin-Orbit Splitting at the Bismuth Surface. <i>Physical Review Letters</i> , 2012, 109, 226404.	7.8	31
49	Surface Tomonaga-Luttinger-Liquid State on Bi_2Te_3 . <i>Physical Review Letters</i> , 2011, 106, 086401.	7.8	30
50	Angle-resolved photoemission study of the role of nesting and orbital orderings in the antiferromagnetic phase of BaFe_2As_2 . <i>Physical Review B</i> , 2011, 84, .	3.2	29
51	Engineering Co_2MnAl Heusler Compounds as a Model System to Correlate Spin Polarization, Intrinsic Gilbert Damping, and Ultrafast Demagnetization. <i>Advanced Materials</i> , 2020, 32, e1908357.	21.0	29
52	Mn_5Ge_3 films grown on $\text{Ge}(1\ 1\ 1)\text{-c}(2\sqrt{3}\times\sqrt{3})$. <i>Surface Science</i> , 2011, 605, 638-643.	1.9	28
53	Silicon intercalation into the graphene-SiC interface. <i>Physical Review B</i> , 2012, 85, .	3.2	28
54	Nature of the Bad Metallic Behavior of FeTe . <i>Physical Review Letters</i> , 2013, 111, 217002.	7.8	28

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55	Angular-resolved photoemission electron spectroscopy and transport studies of the elemental topological insulator Bi_2Te_3 -Sn. Physical Review B, 2018, 98, .	3.2	28
56	Polycrystalline Co ₂ Mn-based Heusler thin films with high spin polarization and low magnetic damping. Applied Physics Letters, 2019, 115, .	3.3	28
57	Co/Ni multilayers for spintronics: High spin polarization and tunable magnetic anisotropy. Physical Review Materials, 2018, 2, .	2.4	28
58	Spin-Charge Interconversion in KTaO ₃ 2D Electron Gases. Advanced Materials, 2021, 33, e2102102.	21.0	27
59	Lyme neuroborreliosis presenting with propriospinal myoclonus.. Journal of Neurology, Neurosurgery and Psychiatry, 1996, 61, 420-420.	1.9	26
60	Experimental evidence of long-range magnetic order in the $\text{Ca}_2\text{MnCu}(100)$ surface alloy. Physical Review B, 2001, 64, .	3.2	26
61	Tuning the transport properties of graphene films grown by CVD on SiC(0001): Effect of <i>in situ</i> hydrogenation and annealing. Physical Review B, 2014, 89, .	3.2	25
62	MgO-Based Epitaxial Magnetic Tunnel Junctions Using Fe-V Electrodes. IEEE Transactions on Magnetics, 2009, 45, 3467-3471.	2.1	24
63	High van Hove singularity extension and Fermi velocity increase in epitaxial graphene functionalized by intercalated gold clusters. Physical Review B, 2012, 85, .	3.2	24
64	Highly spin-polarized carbon-based spinterfaces. Carbon, 2015, 87, 269-274.	10.3	24
65	Two-dimensional electron system at the magnetically tunable EuO/MnTe interface. Physical Review Materials, 2017, 1, .	2.1	23
66	Growth of Eu on Pd(111) studied by x-ray and uv photoemission and crystallographic properties as determined by reflection-high-energy-electron-diffraction and x-ray-diffraction studies. Physical Review B, 1992, 46, 7829-7840.	3.2	20
67	Structural and electrical properties of sputtered titanium boronitride films. Surface and Coatings Technology, 2001, 142-144, 906-910.	4.8	20
68	Formation of an incoherent metallic state in Rh-doped Sr_2IrO_4 . Physical Review B, 2018, 97, .	3.2	20
69	Felr(001) superlattices: growth, structure, and magnetic properties. Journal of Magnetism and Magnetic Materials, 1993, 121, 30-33.	2.3	19
70	Spin polarization at the NiMnSb/MgO(100) interface. Journal of Magnetism and Magnetic Materials, 2006, 303, 54-59.	2.3	19
71	Fermi gas behavior of a one-dimensional metallic band of Pt-induced nanowires on Ge(001). Physical Review B, 2013, 87, .	3.2	19
72	ARPES view of orbitally resolved quasiparticle lifetimes in iron pnictides. Physical Review B, 2016, 93, .	3.2	19

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73	Experimental Study of the Incoherent Spectral Weight in the Photoemission Spectra of the Misfit Cobaltate $[\text{BiO}]_2\text{Bi}_2\text{O}_4$. Physical Review Letters, 2010, 104, 167401.	7.8	18
74	Issues in growing Heusler compounds in thin films for spintronic applications. Journal of Applied Physics, 2020, 128, 241102.	2.5	18
75	Evidence of direct electronic band gap in two-dimensional van der Waals indium selenide crystals. Physical Review Materials, 2019, 3, .	2.4	18
76	Epitaxy of Ce and Ce oxides on V(110). Physical Review B, 1994, 49, 1976-1980.	3.2	17
77	Band renormalization and spin polarization of MoS_2 in graphene/ MoS_2 heterostructures. Physica Status Solidi - Rapid Research Letters, 2015, 9, 701-706.	2.4	17
78	Oxidation of $\hat{\Gamma}$ -brass: A photoelectron spectroscopy study. Surface Science, 2015, 641, 51-59.	1.9	15
79	Two-dimensional electron systems in $\text{A}_{1-x}\text{TiO}_x$ perovskites ($\text{A} = \text{Ca}, \text{Sr}, \text{Ba}$). Physical Review Letters, 2010, 104, 167401.	1.9	15
80	Interplay between electronic and crystallographic instabilities in the low-dimensional ferroelectric $\text{CuInP}_2\text{Se}_6$. Journal of Physics Condensed Matter, 2003, 15, 595-602.	1.8	14
81	Ultrafast filling of an electronic pseudogap in an incommensurate crystal. Physical Review B, 2013, 87, .	3.2	14
82	Spectroscopic and transport studies of $\text{Co}_x\text{Fe}_{1-x}/\text{MgO}(001)$ -based magnetic tunnel junctions. Physical Review B, 2014, 90, .	3.2	14
83	Electronic Band Structure of Ultimately Thin Silicon Oxide on $\text{Ru}(0001)$. ACS Nano, 2019, 13, 4720-4730.	14.6	14
84	Weyl-like points from band inversions of spin-polarised surface states in NbGeSb . Nature Communications, 2019, 10, 5485.	12.8	14
85	High-density two-dimensional electron system induced by oxygen vacancies in ZnO . Physical Review Materials, 2018, 2, .	2.4	14
86	Electronic structure of the $\text{Cr}(001)$ surface and Cr/MgO interface. Physical Review B, 2013, 88, .	3.2	13
87	Growth of Eu on $\text{Pd}(111)$: AES, photoemission and RHEED studies. Surface Science, 1991, 245, L163-L169.	1.9	12
88	Giant Alkali-Metal-Induced Lattice Relaxation as the Driving Force of the Insulating Phase of $\text{Alkali-Metal}/\text{Si}(111)$:B. Physical Review Letters, 2011, 107, 187603.	7.8	12
89	Nonlocal Coulomb correlations in pure and electron-doped Sr_2IrO_4 : Spectral functions, Fermi surface, and pseudo-gap-like spectral weight distributions from oriented cluster dynamical mean-field theory. Physical Review Materials, 2018, 2, .	2.4	12
90	Photoemission studies of the electronic properties of the $\text{Ce}/\text{Fe}(100)$ and $\text{Ce}/\text{Fe}(110)$ interfaces: Formation of a strongly hybridized cerium phase. Physical Review B, 1996, 53, 5015-5023.	3.2	11

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91	Configuration-dependent hybridization in electron spectroscopies of Ce-based compounds. Physical Review B, 1997, 56, 15040-15046.	3.2	11
92	Resonant photoemission study of the 4f spectral function of cerium in Ce/Fe(100) interfaces. Physical Review B, 1997, 56, 12054-12057.	3.2	11
93	Testing epitaxial Co _{1.5} Fe _{1.5} Ge(001) electrodes in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2014, 104, 252412.	3.3	11
94	One-dimensional metallic surface states of Pt-induced atomic nanowires on Ge(001). Journal of Physics Condensed Matter, 2016, 28, 284001.	1.8	11
95	Electronic reconstruction forming a C ₂ -symmetric Dirac semimetal in Ca ₃ Ru ₂ O ₇ . Npj Quantum Materials, 2021, 6, .	5.2	11
96	Magnetic and electronic interaction effects at the interfaces of Fe/V ₂ O ₃ and Co/V ₂ O ₃ bilayers. Physical Review B, 2005, 71, .	3.2	10
97	Bipolaronic insulator on alkali Si. Physical Review B, 2010, 82, .	3.2	10
98	Spin-resolved electronic structure of ferroelectric $\hat{\Gamma}_6$ -GeTe and multiferroic Ge $\hat{1}_4$ -Mn Te. Journal of Physics and Chemistry of Solids, 2019, 128, 237-244.	4.0	10
99	New electronic orderings observed in cobaltates under the influence of misfit periodicities. Europhysics Letters, 2010, 89, 37010.	2.0	9
100	Temperature dependence of Yb valence in the sub-surface of YbB ₁₂ (001). Journal of Physics: Conference Series, 2017, 807, 012003.	0.4	9
101	Cu Metal/Mn Phthalocyanine Organic Spinterfaces atop Co with High Spin Polarization at Room Temperature. Advanced Functional Materials, 2018, 28, 1707123.	14.9	9
102	Fluorinated Phthalocyanine Molecules on Ferromagnetic Cobalt: A Highly Polarized Spinterface. Journal of Physical Chemistry C, 2019, 123, 26475-26480.	3.1	9
103	ARPES study of orbital character, symmetry breaking, and pseudogaps in doped and pure Sr ₂ Mn ₂ O ₇ . Physical Review B, 2019, 100, .	3.2	9
104	Tunable two-dimensional electron system at the (110) surface of SnO ₂ . Physical Review B, 2020, 101, .	3.2	9
105	Epitaxial Heusler superlattice Co ₂ with perpendicular magnetic anisotropy and termination-dependent half-metallicity. Physical Review Materials, 2018, 2, .	2.4	9
106	Experimental evidence for two-dimensional states localized in subsurface region of Ge(111). Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 92-97.	1.7	8
107	The Eu/Pd(111) interface: spectroscopic and structural studies. Surface Science, 1992, 269-270, 731-736.	1.9	7
108	Acute Necrotizing Vasculitis (Polyarteritis Nodosa?) Confined to the Nerve with Spontaneous Recovery. Rheumatology, 1995, 34, 694-695.	1.9	7

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109	Electronic configuration of Ce in Ce/Fe(100) and Ce/Pd(100). Physica B: Condensed Matter, 1999, 259-261, 1102-1104.	2.7	7
110	Photoemission study of the epitaxial Ce/Pd(100) interface. European Physical Journal B, 2000, 14, 177-182.	1.5	7
111	Electron-phonon coupling on strained Ge/Si(111)-(5 × 5) reconstruction. Phys. Rev. B, 2000, 62, 155401.	3.2	7
112	Fermi surface symmetry and evolution of the electronic structure across the paramagnetic-helimgnetic transition in MnSi/Si(111). Physical Review B, 2015, 92, .	3.2	7
113	Oxygen adsorption observed during the epitaxy of V(110) on the (110) $\hat{\pm}$ -Al ₂ O ₃ surface. Applied Surface Science, 1993, 68, 341-345.	6.1	6
114	Experimental evidence of a strongly reduced orbital moment in CeRh ₃ B ₂ . Physica B: Condensed Matter, 1994, 199-200, 563-566.	2.7	6
115	Anomalous spectral weight in photoemission spectra of the hole-doped Haldane chain Y ₂ X ₂ BaNiO ₅ . Physical Review B, 2003, 67, .	3.2	6
116	Bulk electronic structure of Mn ₅ Ge ₃ films by angle-resolved photoemission spectroscopy. Physical Review B, 2015, 92, .	3.2	6
117	Influence of surface symmetry breaking on the magnetism, collapsing, and three-dimensional dispersion of the Co pnictides.		

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127	Magnetotransport in MgO-based magnetic tunnel junctions grown by molecular beam epitaxy (invited). Journal of Applied Physics, 2014, 115, 172610.	2.5	4
128	Converting topological insulators into topological metals within the tetradymite family. Physical Review B, 2018, 97, .	3.2	4
129	Surface electronic states of Au-induced nanowires on Ge(001). Journal of Physics Condensed Matter, 2018, 30, 075001.	1.8	4
130	Coherent and incoherent bands in La and Rh doped Sr_3O_7 . Physical Review B, 2018, 98, .	3.2	4
131	Temperature-driven modification of surface electronic structure on bismuth, a topological border material. Journal Physics D: Applied Physics, 2019, 52, 254002.	2.8	4
132	Near Fermi level electronic structure of Ti_3SiC_2 revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2020, 102, .	3.2	4
133	Effect of the valence state on the band magnetocrystalline anisotropy in two-dimensional rare-earth/noble-metal compounds. Physical Review Research, 2022, 4, .	3.6	4
134	Growth and structure of samarium overlayers on a cobalt (0001) single crystal. Surface Science, 1996, 352-354, 557-561.	1.9	3
135	4f spectral function of cerium in Ce/Fe(100) and Ce/Pd(100) interfaces. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 799-803.	1.7	3
136	Probing interfacial properties of ferromagnetic/insulator bilayers with X-ray spectroscopies: Application to Fe, Co, Mn/MgO(001) interfaces. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 126, 151-154.	3.5	3
137	k dependence of the spin polarization in $\text{Mn}_5\text{Ge}_3/\text{Ce}(111)$ thin films. Physical Review B, 2015, 91, .	3.2	3
138	Surface state of the dual topological insulator Bi_2Sb . Physical Review B, 2015, 91, .	3.2	3

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145	Photoemission studies of the cerium electronic properties at the interface. Surface Science, 1996, 352-354, 817-822.	1.9	2
146	Polarization of. IEEE Transactions on Magnetics, 2004, 40, 2305-2307.	2.1	2
147	Understanding the insulating nature of alkali-metal/Si(111):B interfaces. Journal of Physics Condensed Matter, 2013, 25, 094004.	1.8	2
148	Enhanced magnetization at the Cr/MgO(001) interface. Applied Physics Letters, 2015, 107, 251602.	3.3	2
149	Angle resolved photoemission spectroscopy study of the spin-charge separation in the strongly correlated cuprates SrCuO ₂ and Sr ₂ CuO ₃ with S ²⁻ impurities. Journal of Electron Spectroscopy and Related Phenomena, 2018, 225, 49-54.	1.7	2
150	Spin-polarized quasi-one-dimensional state with finite band gap on the Bi/InSb(001) surface. Physical Review Materials, 2017, 1, .	2.4	2
151	Giant Rashba system on a semiconductor substrate with tunable Fermi level: Bi/GaSb(110) (2 $\bar{1}$ -1). Physical Review Materials, 2019, 3, .	2.4	2
152	Superconducting dome and pseudogap endpoint in Bi2201. Physical Review Materials, 2022, 6, .	2.4	2
153	Direct observation of a highly spin-polarized organic spinterface at room temperature. , 2014, , .		1
154	Fermi surface and band structure of Ti ₂ SnC as observed by angle-resolved photoemission spectroscopy. Physical Review B, 2021, 104, .	3.2	1
155	Growth of Eu on Pd(111): AES, photoemission and RHEED studies. Surface Science Letters, 1991, 245, L163-L169.	0.1	0
156	Photoemission spectroscopy study of the hole-doped Haldane chain Y _{2-x} Sr _x BaNiO ₅ . Nuclear Instruments & Methods in Physics Research B, 2003, 200, 242-247.	1.4	0
157	$\text{xmlns:xocs= "http://www.elsevier.com/xml/xocs/dtd" xmlns:xs= "http://www.w3.org/2001/XMLSchema" xmlns:xsi= "http://www.w3.org/2001/XMLSchema-instance" xmlns= "http://www.elsevier.com/xml/ja/dtd" xmlns:ja= "http://www.elsevier.com/xml/ja/dtd" xmlns:mml= "http://www.w3.org/1998/Math/MathML" xmlns:tb= "http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct= "http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce= "http://www.elsevier.com/x"}$	6.1	0
158	Simple and advanced ferromagnet/molecule spinterfaces. , 2016, , .		0
159	Topological spin-orbitronics (Conference Presentation). , 2016, , .		0
160	Band structure and Fermi surfaces of the reentrant ferromagnetic superconductor $\text{Eu}_{1-x}\text{Ce}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2017, 96, .	3.2	0