

Piotr WiÅ›niewski

List of Publications by Year in descending order

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95
papers

1,280
citations

430442

18
h-index

454577

30
g-index

97
all docs

97
docs citations

97
times ranked

1409
citing authors

#	ARTICLE	IF	CITATIONS
1	Shubnikov - de Haas oscillations, weak antilocalization effect and large linear magnetoresistance in the putative topological superconductor LuPdBi. Scientific Reports, 2015, 5, 9158.	1.6	78
2	Giant magnetoresistance, three-dimensional Fermi surface and origin of resistivity plateau in YSb semimetal. Scientific Reports, 2016, 6, 38691.	1.6	60
3	Antiferromagnetism and superconductivity in the half-Heusler semimetal HoPdBi. Scientific Reports, 2016, 6, 18797.	1.6	60
4	3D printed stimuli-responsive magnetic nanoparticle embedded alginate-methylcellulose hydrogel actuators. Additive Manufacturing, 2020, 34, 101275.	1.7	52
5	Cylindrical Fermi surfaces formed by a fiat magnetic Brillouin zone in uranium dipnictides. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 1517-1544.	0.6	51
6	Magnetoresistance in LuBi and YBi semimetals due to nearly perfect carrier compensation. Physical Review B, 2018, 97, .	1.1	47
7	Observation of Rashba zero-field spin splitting in a strained germanium 2D hole gas. Applied Physics Letters, 2014, 105, .	1.5	46
8	Crystal Growth and Cylindrical Fermi Surfaces of USb ₂ . Journal of the Physical Society of Japan, 1999, 68, 2182-2185.	0.7	45
9	Fermi surface topology and magnetotransport in semimetallic LuSb. Scientific Reports, 2017, 7, 12822.	1.6	42
10	Superconductivity and Shubnikov-de Haas oscillations in the noncentrosymmetric half-Heusler compound YPtBi. Physical Review B, 2016, 94, .	1.1	38
11	Rattling-enhanced superconductivity in $MV_2A_2I_{20}$		

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19	Synthesis and properties of AxV_2Al_2O ($A = Th, U, Np, Pu$) ternary actinide aluminides. <i>Journal of Alloys and Compounds</i> , 2017, 696, 1113-1119.	2.8	19
20	Superconductivity in the superhard boride $WB_{4.2}$. <i>Superconductor Science and Technology</i> , 2018, 31, 115005.	1.8	19
21	Anomalous Hall effect and negative longitudinal magnetoresistance in half-Heusler topological semimetal candidates $TbPtBi$ and $HoPtBi$. <i>APL Materials</i> , 2020, 8, .	2.2	18
22	Method to Measure the Degree of Reduction of Eu^{3+} to Eu^{2+} : How Anion and Cation Vacancies Influence the Degree of Reduction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24505-24514.	1.5	18
23	Magnetoresistance and de Haas-van Alphen Effect in U_3As_4 and U_3P_4 . <i>Journal of the Physical Society of Japan</i> , 2001, 70, 558-568.	0.7	17
24	Magnetic structures of $REPtBi$ half-Heusler bismuthides ($RE = Gd, Tb, Dy, Ho, Er$). <i>Physica B: Condensed Matter</i> , 2018, 536, 56-59.	1.3	17
25	Dependence of ordering temperature on pressure, carrier density and U-U distance in uranium pnictides; pressure and hall effects examinations of UP_2 and USb_2 . <i>Solid State Communications</i> , 1991, 79, 1025-1028.	0.9	16
26	Negative longitudinal magnetoresistance as a sign of a possible chiral magnetic anomaly in the half-Heusler antiferromagnet $DyPtBi$. <i>Physical Review B</i> , 2019, 99, .	1.1	16
27	Shubnikov-de Haas Effect Study of Cylindrical Fermi Surfaces in UP_2 . <i>Journal of the Physical Society of Japan</i> , 2001, 70, 278-283.	0.7	15
28	Synthesis and characterization of LSMO manganite-based biocomposite. <i>Phase Transitions</i> , 2014, 87, 468-476.	0.6	15
29	Evidence of strong spin-orbit interaction in strained epitaxial germanium. <i>Thin Solid Films</i> , 2016, 602, 84-89.	0.8	15
30	Magnetic Order and SdH Effect in Half-Heusler Phase $ErPtBi$. <i>Acta Physica Polonica A</i> , 2015, 127, 656-658.	0.2	14
31	Observation of gapped state in rare-earth monopnictide $HoSb$. <i>Scientific Reports</i> , 2020, 10, 12961.	1.6	14
32	Neutron diffraction study of magnetic structure of and. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 10589-10600.	0.7	13
33	Giant anisotropic magnetoresistance and magnetothermopower in cubic 3:4 uranium pnictides. <i>Applied Physics Letters</i> , 2007, 90, 192106.	1.5	13
34	Observation of Dirac state in half-Heusler material $YPtBi$. <i>Scientific Reports</i> , 2020, 10, 12343.	1.6	13
35	Magnetic, electric and thermoelectric properties of ternary intermetallics from the $Ce-Co-Ge$ system. <i>Intermetallics</i> , 2011, 19, 1201-1206.	1.8	12
36	Single-crystal growth by flux method and Fermi surface of uranium compounds. <i>Physica B: Condensed Matter</i> , 2000, 281-282, 761-763.	1.3	11

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37	Shubnikov-de Haas effect study of cylindrical Fermi surfaces in UAs ₂ . Journal of Physics Condensed Matter, 2000, 12, 1971-1980. Ferromagnetism in UMn	0.7	10
38	Al studied with polarized neutron diffraction and bulk magnetic measurements. Physical Review B, 2012, 86, .	1.1	10
39	Observation of superconductivity in the intermetallic compound IrSn ₄ . Journal of Physics Condensed Matter, 2013, 25, 155701.	0.7	10
40	Involvement of Schizosaccharomyces pombe rrp1 + and rrp2 + in the Srs2- and Swi5/Sfr1-dependent pathway in response to DNA damage and replication inhibition. Nucleic Acids Research, 2013, 41, 8196-8209.	6.5	10
41	Search for unconventional superconductors among the YTE ₂ Si ₂ compounds (TE = Cr, Co, Ni, Rh, Pd, Pt). Journal of Physics Condensed Matter, 2017, 29, 195602. Superconductivity in		
42	Y ₂ TE ₂ Si ₂ compounds (TE = Cr, Co, Ni, Rh, Pd, Pt). Journal of Physics Condensed Matter, 2017, 29, 195602.		

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55	U ₃ Bi ₄ single crystal growth by the molten metal solution evaporation method. Journal of Crystal Growth, 1997, 172, 459-465.	0.7	6
56	Antiferromagnetic Order in the Half-Heusler Phase TbPdBi. Acta Physica Polonica A, 2018, 133, 498-500.	0.2	6
57	Quantum Interference in Disordered Ferromagnet U ₂ NiSi ₃ . Acta Physica Polonica A, 2015, 127, 451-453.	0.2	5
58	Electronic properties of CeRh _{1-x} GexIn; evolution from an intermediate-valence to a localized 4f-state. Intermetallics, 2015, 56, 101-106.	1.8	5
59	Novel ternary intermetallics CePd ₃ Al ₂ and LaPd ₃ Al ₂ . Journal of Alloys and Compounds, 2017, 708, 162-168.	2.8	5
60	Superconductivity in single crystalline YPd ₂ Ge ₂ . Physica B: Condensed Matter, 2018, 536, 761-766.	1.3	5
61	Crystal Growth and Physical Properties of the YPd ₂ Si ₂ Superconductor. Crystal Growth and Design, 2019, 19, 2557-2563.	1.4	5
62	Superconductivity in the Endohedral Ga Cluster Compound PdGa ₅ . Journal of Physical Chemistry C, 2021, 125, 11294-11299.	1.5	5
63	Effect of Spin Reorientational Transition on Magnetoresistivity of Noncolinear Ferromagnet U ₃ As ₄ . Acta Physica Polonica A, 1994, 85, 245-248.	0.2	5
64	Magnon Drag Effect on Resistivity and Thermoelectric Power of Semimetallic Antiferromagnet USb. Acta Physica Polonica A, 1995, 88, 1103-1112.	0.2	5
65	Cylindrical Fermi surfaces of UAs ₂ and UP ₂ . Physica B: Condensed Matter, 2000, 281-282, 769-770.	1.3	4
66	Magnetic Structure of PrFe ₄ As ₁₂ Skutterudite – Polarised Neutron Study. Journal of the Physical Society of Japan, 2011, 80, SA012.	0.7	4
67	Pressure studies on the superconductor Mo ₃ Sb ₇ . Journal of Physics: Conference Series, 2011, 273, 012088.	0.3	4
68	Metamagnetism in CePd ₅ Ge ₃ . Journal of Physics Condensed Matter, 2013, 25, 126001.	0.7	4
69	Magnetic and related properties of the solid solution CeCuxGa _{4-x} . Journal of Physics and Chemistry of Solids, 2014, 75, 1284-1288.	1.9	4
70	Magnetic and related properties of Ce ₅ CoGe ₂ , CeCoGe and CeCo ₂ Ge ₂ . Intermetallics, 2014, 53, 40-44.	1.8	4
71	Magnetic order and electronic properties of Li ₂ Mn ₂ (MoO ₄) ₃ material for lithium-ion batteries: ESR and magnetic susceptibility studies. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
72	Pressure effect on spin reorientation transition in U ₃ As ₄ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1427-1428.	1.0	3

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73	Magnetic Brillouin zone effect on the resistivity of semimetallic-like Fermi surface in USb. Phase Transitions, 1996, 57, 11-16.	0.6	3
74	Low-temperature physical behavior in a novel compound CePtIn ₄ . Journal of Alloys and Compounds, 2017, 724, 581-585.	2.8	3
75	Effect of oxygen deficiency on transport properties of Nd _{1.85} Th _{0.15} CuO _{4-δ} . Journal of Alloys and Compounds, 1992, 181, 299-304.	2.8	2
76	Neutron diffraction study of magnetic structure of U ₃ Bi ₄ and U ₃ Sb ₄ . Physica B: Condensed Matter, 1997, 234-236, 694-695.	1.3	2
77	Unusual domain and field-forced magnetostriction in U ₃ As ₄ and U ₃ P ₄ . Journal of Magnetism and Magnetic Materials, 2007, 310, e904-e906.	1.0	2
78	Evolution of the Magnetic and Electrical Properties in the Ce-Co-Ge System. Solid State Phenomena, 0, 194, 80-83.	0.3	2
79	Suppression of ferromagnetism in solid solution CePd _{1-x} Ga _{4x} . Journal of Alloys and Compounds, 2015, 648, 636-640.	2.8	2
80	Superconductivity in ThPd ₂ Ge ₂ . Physica B: Condensed Matter, 2018, 536, 734-737.	1.3	2
81	Study of the Structural, Electrical and Magnetic Properties of the $\text{La}_{0.67}\text{Sr}_{0.33-x}\text{Pb}_x\text{MnO}_3$ Manganite Nanocrystalline Materials. Journal of Low Temperature Physics, 2022, 206, 400-412.	0.6	2
82	Cylindrical Fermi surfaces in rare-earth and actinide compounds. Physica B: Condensed Matter, 2000, 281-282, 758-760.	1.3	1
83	²³⁸ U Mössbauer Study on the 5f-Quadrupoles in Uranium-Based Intermetallics. Hyperfine Interactions, 2002, 141/142, 237-242.	0.2	1
84	Multiple magnetic phase transitions in CePd ₂ In ₄ . Journal of Alloys and Compounds, 2013, 578, 50-52.	2.8	1
85	Metamagnetic Transition of Itinerant Ferromagnet U ₃ P ₄ under High Pressure. , 2014, , .		1
86	Magnetic and Electronic Properties in Series of Gd _{1-x} TxGa _{4-x} Solid Solutions (T = Ni or Cu). Acta Physica Polonica A, 2015, 127, 382-384.	0.2	1
87	Fermi surface investigation of the noncentrosymmetric superconductor U_3P_4 -PdBi. Physical Review B, 2020, 101, .	1.1	1
88	Superconductivity in single crystalline LuPd ₂ Si ₂ probed by heat capacity measurements. Superconductor Science and Technology, 2020, 33, 055007.	1.8	1
89	Increased Low-Temperature Magnetization and Spin Reorientational Transition in the Polar Phase of (Ca, Mn)-Doped Bismuth Ferrites. Physica Status Solidi (B): Basic Research, 2020, 257, 2000121.	0.7	1
90	High-Field Magnetisation and Magnetoresistance of U ₃ P ₄ and Its Solid Solution U ₃ (P,As) ₄ . Acta Physica Polonica A, 2009, 115, 254-256.	0.2	1

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91	Quantum versus classical nature of the low-temperature magnetic phase transition in TbAl_3 . Physical Review B, 2022, 105, .		
92	Single-ion-type Kondo resistivity and thermoelectric power in USb antiferromagnet. Physica B: Condensed Matter, 2000, 281-282, 193-194.	1.3	0
93	Anisotropy of resistivity and its reversal in ferromagnets U ₃ As ₄ and U ₃ P ₄ . Physica B: Condensed Matter, 2006, 378-380, 1001-1002.	1.3	0
94	Huge Magnetostriction-Driven Anisotropy of Electron Transport Properties in Cubic Ferromagnetic Uranium Pnictides. Journal of the Physical Society of Japan, 2012, 81, SB021.	0.7	0
95	Giant Magnetoresistance and Shubnikov-de Haas Effect in LuSb. Acta Physica Polonica A, 2018, 133, 538-540.	0.2	0