

# Andrzej Szajek

## List of Publications by Citations

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107  
papers

678  
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14  
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20  
g-index

115  
ext. papers

713  
ext. citations

2.5  
avg, IF

3.61  
L-index

#	Paper	IF	Citations
107	The electronic and magnetic properties of $\text{Yn+1Co3n+5B2n}$ ( $n=0, 1, 2, 3$ , and $\infty$ ) systems. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1998</b> , 185, 322-330	2.8	31
106	The electronic and electrochemical properties of the $\text{LaNi}_5$ , $\text{LaNi}_4\text{Al}$ and $\text{LaNi}_3\text{AlCo}$ systems. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 307, 290-296	5.7	31
105	Electronic structure of superconducting non-oxide perovskite $\text{MgCNi}_3$ . <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, L595-L600	1.8	31
104	Hydrogen storage by Mg-based nanocomposites. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 3652-3658	6.7	26
103	Electrochemical and electronic properties of nanocrystalline Mg-based hydrogen storage materials. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 436, 345-350	5.7	25
102	Nanocrystalline materials for NiMH batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 108, 67-75	3.1	23
101	Magnetic properties and electronic structures of intermediate valence systems $\text{CeRhSi}_2$ and $\text{Ce}_2\text{Rh}_3\text{Si}_5$ . <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 215601	1.8	22
100	Electronic structure, magnetic, and transport studies of single-crystalline $\text{UCoGa}_5$ . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	22
99	The electronic and electrochemical properties of the TiFe-based alloys. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 348, 285-292	5.7	22
98	Spin wave spectrum and magnetization of ferromagnetic modulated films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1988</b> , 71, 299-305	2.8	22
97	The influence of partial substitution of Co by Al atoms on the magnetic properties of $\text{DyCo}_2$ compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1997</b> , 166, 237-242	2.8	21
96	X-ray photoemission spectra of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ perovskite. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 212, 107-111	2.8	18
95	Electrochemical and electronic properties of nanocrystalline $\text{TiNi}_{1-x}\text{M}_x$ ( $\text{M}=\text{Mg}, \text{Mn}, \text{Zr}; x=0, 0.125, 0.25$ ) ternary alloys. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 403, 323-328	5.7	16
94	Giant crystal-electric-field effect and complex magnetic behavior in single-crystalline $\text{CeRh}_3\text{Si}_2$ . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	15
93	Induced magnetic ordering in alloyed compounds based on Pauli paramagnet $\text{YCo}_2$ . <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17E129	2.5	14
92	X-ray photoemission spectrum, electronic structure, and magnetism of $\text{UCu}_2\text{Si}_2$ . <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 6994-6998	5.7	14
91	Electronic structure of $\text{UGe}_2$ at ambient pressure: Comparison with X-ray photoemission spectra. <i>Intermetallics</i> , <b>2011</b> , 19, 1411-1419	3.5	14

90	The electronic and magnetic properties of the metamagnetic ordered alloy FeRh. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 193, 81-91	2.8	14
89	Effect of substitution La by Mg on electrochemical and electronic properties in La <sub>2</sub> Mg Ni <sub>7</sub> alloys: a combined experimental and ab initio studies. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 763, 951-959	5.7	13
88	The electronic and electrochemical properties of the LaNi <sub>5</sub> -based alloys. <i>Physica Status Solidi A</i> , <b>2003</b> , 196, 252-255		12
87	Temperature behavior of magnetization of DyCo <sub>2</sub> compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 152, L279-L281	2.8	12
86	Magnetic properties and electronic structure of GdNi <sub>4</sub> Si compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 305, 348-351	2.8	10
85	X-ray photoemission spectra and electronic structure of GdCo <sub>4</sub> B. <i>Solid State Communications</i> , <b>2001</b> , 120, 407-411	1.6	10
84	Electronic structure of La <sub>0.65</sub> Pb <sub>0.35</sub> MnO <sub>3</sub> perovskite studied by X-ray photoemission spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 217, 44-48	2.8	10
83	Electronic structure in ternary intermetallic Pd <sub>2</sub> TiX (X=Al,Ga,In) Heusler-type alloys: are they magnetic?. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 4447-4456	1.8	10
82	Magnetic, transport and electronic structure properties of U <sub>2</sub> RuGa <sub>8</sub> . <i>Physica B: Condensed Matter</i> , <b>2005</b> , 359-361, 1375-1377	2.8	9
81	On a structural phase transition in the ordered FeRh alloy. <i>Solid State Communications</i> , <b>1994</b> , 92, 731-734	1.6	9
80	Phase diagram of the metamagnetic FeRh. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 115, 171-183	1.8	9
79	Electronic structure of the heavy fermion superconductor Ce <sub>2</sub> PdIn <sub>8</sub> : Experiment and calculations. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 647, 605-611	5.7	8
78	Electronic structure and photoemission studies on Kondo semimetal U <sub>2</sub> Ru <sub>2</sub> Sn. <i>European Physical Journal B</i> , <b>2003</b> , 35, 349-355	1.2	8
77	Electronic structure and the x-ray photoemission spectrum of the Kondo-dense compound UCu <sub>5</sub> Al. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	8
76	Electronic band structure and the X-ray photoemission spectrum of UCu <sub>5</sub> In. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2002</b> , 82, 1893-1906		8
75	Electronic structure of doped LaMnO <sub>3</sub> perovskite studied by x-ray photoemission spectroscopy. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 5519-5525	1.8	8
74	Effect of Gd and Co content on electrochemical and electronic properties of La <sub>1.5</sub> Mg <sub>0.5</sub> Ni <sub>7</sub> alloys: A combined experimental and first-principles study. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 131-139	5.7	8
73	Electronic band structure of PuCoGa <sub>5</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, L155-L159	1.8	7

72	Nanogranular FeNi <sub>23</sub> B <sub>6</sub> phase formation during devitrification of nickel-rich Ni <sub>64</sub> Fe <sub>16</sub> Zr <sub>7</sub> B <sub>12</sub> Au <sub>1</sub> amorphous alloy. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1392-1394	3.4	7
71	Electronic structure and X-ray photoemission spectra of the compounds APtSn I (A=Th, U). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 281, 281-289	2.8	7
70	Electronic Structure of Mg <sub>2</sub> Ni <sub>1-x</sub> Cu <sub>x</sub> . <i>Acta Physica Polonica A</i> , <b>2009</b> , 115, 223-225	0.6	7
69	Calculated electronic structure and measured X-ray photoemission spectrum of UAuSb <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 443, 20-25	5.7	6
68	Dense Kondo compound UCu <sub>5</sub> Sn - electronic structure and x-ray photoemission. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 3199-3209	1.8	6
67	The electronic and electrochemical properties of the ZrV <sub>2</sub> and Zr(V <sub>0.75</sub> Ni <sub>0.25</sub> ) <sub>2</sub> systems. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 302, 299-303	5.7	6
66	X-ray photoemission spectra and electronic band structure of the ternary compounds U <sub>3</sub> M <sub>2</sub> M <sub>3</sub> ?, M = Al, Ga, M? = Si, Ge. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 386, 75-81	5.7	5
65	The electronic densities of states in the ordered Zr <sub>2</sub> Rh alloys. <i>Solid State Communications</i> , <b>1989</b> , 71, 917-922	2.2	5
64	Crystal and electronic structure and magnetic properties of CeRhPb. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1934-1939	3.9	4
63	X-ray photoemission spectra of UCo <sub>4</sub> B compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 236, 243-248	2.8	4
62	Electronic band structure and the X-ray photoemission spectrum of UCu <sub>5</sub> In. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2002</b> , 82, 1893-1906		4
61	The electronic and superconducting properties of ordered Ti-Rh alloys. <i>Journal of Physics Condensed Matter</i> , <b>1991</b> , 3, 1089-1098	1.8	4
60	XPS Valence Band Studies of LaNi <sub>5-x</sub> M <sub>x</sub> (M = Al, Co; x = 0, ,1) Alloy Thin Films. <i>Acta Physica Polonica A</i> , <b>2015</b> , 127, 430-432	0.6	3
59	First principles calculations of electronic structure and magnetic properties of UCuSb <sub>2</sub> . <i>Computational Materials Science</i> , <b>2014</b> , 81, 402-409	3.2	3
58	Structure and paramagnetism in weakly correlated Y <sub>8</sub> Co <sub>5</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 125701	1.8	3
57	Neutron-diffraction studies of R <sub>3</sub> Co <sub>8</sub> Sn <sub>4</sub> (R=Y, Tb, Ho, Er) compounds. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 350, E123-E125	2.8	3
56	Electronic properties of Nd <sub>3</sub> Co <sub>13</sub> B <sub>2</sub> compound. <i>Solid State Communications</i> , <b>2004</b> , 132, 225-228	1.6	3
55	Influence of local environment on electronic properties of Co atoms in the Tm <sub>3</sub> Co <sub>11</sub> B <sub>4</sub> compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 223, 119-126	2.8	3

54	Electronic Structure of UCo <sub>4</sub> B Compound. <i>Acta Physica Polonica A</i> , <b>2000</b> , 98, 599-603	0.6	3
53	Ab initio study of pressure-induced phase transition, band gaps and X-ray photoemission valence band spectra of YVO <sub>4</sub> . <i>Computational Materials Science</i> , <b>2016</b> , 117, 98-102	3.2	2
52	Study on CePtIn <sub>4</sub> grown in a platelet-like morphology. <i>Solid State Communications</i> , <b>2019</b> , 302, 113717	1.6	2
51	Thermoelectric properties of CeNi <sub>2</sub> Al <sub>3</sub> compound: an experimental and theoretical study. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	2
50	Electronic structure calculations and electrical resistivity of Dy(Co <sub>1-x</sub> M <sub>x</sub> ) <sub>2</sub> (M = Ni, Cu). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 183-186		2
49	Nanogranular Phase Formation During Devitrification of Fe(NiCo)ZrB Amorphous Alloys. <i>European Physical Journal D</i> , <b>2004</b> , 54, 59-66		2
48	Is UPtSn a Nonmagnetic Semiconductor or a Metallic Antiferromagnet?. <i>European Physical Journal D</i> , <b>2004</b> , 54, 379-382		2
47	Magnetic susceptibility, transport properties, XPS and electronic structure of UCoGa <sub>5</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E323-E324	2.8	2
46	Electronic structure of YbNi <sub>4</sub> B compound: experiment and theory. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E477-E478	2.8	2
45	Electronic structure of the uranium monogermanide UGe. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E347-E349	2.8	2
44	Electronic properties of LaNi 5- type alloys. <i>European Physical Journal D</i> , <b>2002</b> , 52, A209-A212		2
43	Electronic structure of the uranium monostannide USn. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 236, 552-555	1.3	2
42	Electronic Structure of Uranium Digermanide. <i>Crystal Research and Technology</i> , <b>2001</b> , 36, 1105-1112	1.3	2
41	The magnetic properties of the Laves-phase system Dy(Co <sub>1-x</sub> Al <sub>x</sub> ) <sub>2</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 157-158, 723-724	2.8	2
40	Local environment effects in Y <sub>2</sub> Fe <sub>14</sub> B-based compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 97, 187-192	2.8	2
39	Effect of Al Substitution on the Electronic and Magnetic Properties of GdCo <sub>5</sub> . <i>Acta Physica Polonica A</i> , <b>2002</b> , 101, 525-536	0.6	2
38	Electronic and Magnetic Properties of ThCo <sub>4</sub> B. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 283-286	0.6	2
37	Electronic Structure and X-Ray Photoemission Spectra of MPtSn (M = Ti, Zr, Hf). <i>Acta Physica Polonica A</i> , <b>2009</b> , 115, 935-940	0.6	2

36	Electronic Properties of CeNiAl <sub>4</sub> Based on ab initio Calculations and XPS Measurements. <i>Acta Physica Polonica A</i> , <b>2018</b> , 133, 517-519	0.6	2
35	Band Structure of Dilute Metastable Co-Ag Alloys. <i>Acta Physica Polonica A</i> , <b>2000</b> , 98, 447-455	0.6	2
34	Electronic Structure and Magnetic Properties of the UCoAs <sub>2</sub> Compound. <i>Acta Physica Polonica A</i> , <b>2009</b> , 115, 244-246	0.6	2
33	Nanocomposite Hydride LaNi <sub>5</sub> /A- and Mg <sub>2</sub> Ni/A-Type Materials (A=C, Cu, Pd). <i>Materials Science Forum</i> , <b>2009</b> , 610-613, 472-479	0.4	1
32	Electron-transport Properties and Electronic Structure of HoCo <sub>3</sub> Compound. <i>European Physical Journal D</i> , <b>2004</b> , 54, 323-326		1
31	Spin-reorientation transition and electronic structure of TmCo <sub>3</sub> compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2002</b> , 246, 425-433	2.8	1
30	The electronic and electrochemical properties of the TiFe <sub>1-x</sub> Ni <sub>x</sub> alloys. <i>Physica Status Solidi A</i> , <b>2003</b> , 196, 256-259		1
29	Properties of the UFe <sub>5</sub> Sn compound: electronic structure and X-ray photoemission. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 236, 548-551	1.3	1
28	Electronic band structure calculation and nuclear spin-lattice relaxation in chromium hydrides. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 340, 67-73	5.7	1
27	X-Ray Photoemission Valence Band Spectrum of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> Perovskite. <i>Physica Status Solidi (B): Basic Research</i> , <b>2000</b> , 220, r9-r10	1.3	1
26	Effect of Hydrogenation on the Electronic Structure of HoNiSn - Ab Initio Calculations. <i>Acta Physica Polonica A</i> , <b>2010</b> , 118, 346-349	0.6	1
25	The Electronic and Magnetic Properties of YbxGd <sub>1-x</sub> Ni <sub>5</sub> Systems. <i>Acta Physica Polonica A</i> , <b>2010</b> , 118, 905-906		1
24	XPS and UPS Valence Band Studies of Nanocrystalline Ni-Ti Alloy Thin Films. <i>Acta Physica Polonica A</i> , <b>2018</b> , 133, 613-616	0.6	1
23	Influence of Valence Band Modifications on Hydrogen Absorption in Zr-Pd Alloy Thin Films. <i>Acta Physica Polonica A</i> , <b>2018</b> , 133, 620-623	0.6	1
22	The Electronic and Magnetic Properties of UNiAs <sub>2</sub> Antiferromagnet. <i>Acta Physica Polonica A</i> , <b>2010</b> , 118, 413-416	0.6	1
21	Occupation deficiency in layered structures of UNi <sub>x</sub> Sb <sub>2</sub> (0<x<1) studied by density functional theory supercell calculations. <i>Computational Materials Science</i> , <b>2017</b> , 134, 166-170	3.2	
20	Intermediate valence of CeNi <sub>2</sub> Al <sub>3</sub> compound and its evidences: Theoretical and experimental approach. <i>Journal of Physics and Chemistry of Solids</i> , <b>2020</b> , 145, 109576	3.9	
19	Electronic structure and photoemission spectrum of UCo <sub>4</sub> B compound. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 442, 272-274	5.7	

- 18 Ab-initio electronic structure calculations for Pr<sub>3</sub>Co<sub>13</sub>B<sub>2</sub> and Pr<sub>5</sub>Co<sub>19</sub>B<sub>6</sub> compounds. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 238-242
- 17 The European Conference Physics of Magnetism (PM05) Poznań Poland, 24-27 June 2005. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 362-364
- 16 Electronic structure of URuGa<sub>5</sub> and UIrGa<sub>5</sub>. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 361-363 1.3
- 15 The European Conference Physics of Magnetism (PM05) Poznań Poland, 24-27 June 2005. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 746-748 1.3
- 14 Electrical Resistivity and Electronic Structure of Nd<sub>3</sub>Co<sub>13</sub>B<sub>2</sub> Compound. *European Physical Journal D*, **2004**, 54, 343-346
- 13 Core photoemission spectra of oxygen atoms in perovskite manganites La<sub>1-x</sub>A<sub>x</sub>MnO<sub>3</sub> (A=Sr, Pb). *European Physical Journal D*, **2002**, 52, A261-A264
- 12 XPS and UPS Valence Band Studies of Nanocrystalline Ni<sub>44</sub> Alloy Thin Films. *Acta Physica Polonica A* 133, 613 (2018), ERRATUM. *Acta Physica Polonica A*, **2020**, 138, 570-570 0.6
- 11 Dynamic Crystal Field in CePb<sub>3</sub>. *Acta Physica Polonica A*, **2000**, 97, 245-248 0.6
- 10 Electronic Structure and Transport Properties of UFe<sub>2</sub> System. *Acta Physica Polonica A*, **2000**, 97, 815-818 0.6
- 9 The Electronic and Magnetic Properties of the USn<sub>2</sub> Compound. *Acta Physica Polonica A*, **2004**, 105, 485-498
- 8 X-Ray Photoemission Spectra of Dy(Co<sub>1-x</sub>Al<sub>x</sub>)<sub>2</sub> Systems. *Acta Physica Polonica A*, **1997**, 91, 439-442 0.6
- 7 Electronic Band Structure and Calculated Photoemission Spectra of USi<sub>3</sub> Compound. *Acta Physica Polonica A*, **1997**, 92, 303-306 0.6
- 6 Magnetic Properties of the U<sub>5</sub>Ge<sub>4</sub> Compound Based on Ab initio Calculations. *Acta Physica Polonica A*, **2009**, 115, 251-253 0.6
- 5 The Electronic and Magnetic Properties of UGe Compound. *Acta Physica Polonica A*, **2010**, 118, 886-887 0.6
- 4 Mg-based Nanocomposites for Room Temperature Hydrogen Storage 229-236
- 3 Electronic Structure and Magnetic Properties of Ce<sub>5</sub>CuPb<sub>3</sub> Based on Ab Initio Calculations. *Acta Physica Polonica A*, **2012**, 121, 1182-1184 0.6
- 2 Electronic Structure and Magnetic Properties of the UPdAs<sub>2</sub> Compound. *Acta Physica Polonica A*, **2012**, 121, 1148-1150 0.6
- 1 Electronic structure of YbFe<sub>4</sub>Al<sub>8</sub> antiferromagnet: A combined X-ray photoelectron spectroscopy and first-principles study. *Journal of Alloys and Compounds*, **2022**, 164478 5.7

