

# Ilja Turek

## List of Publications by Year in descending order

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239  
papers

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76294

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240  
docs citations

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times ranked

5952  
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles theory of dilute magnetic semiconductors. <i>Reviews of Modern Physics</i> , 2010, 82, 1633-1690.	16.4	959
2	Room-temperature antiferromagnetic memory resistor. <i>Nature Materials</i> , 2014, 13, 367-374.	13.3	546
3	Ab initio calculations of exchange interactions, spin-wave stiffness constants, and Curie temperatures of Fe, Co, and Ni. <i>Physical Review B</i> , 2001, 64, .	1.1	479
4	Electronic Structure of Disordered Alloys, Surfaces and Interfaces. , 1997, , .		401
5	Writing and reading antiferromagnetic Mn <sub>2</sub> Au by Néel spin-orbit torques and large anisotropic magnetoresistance. <i>Nature Communications</i> , 2018, 9, 348.	5.8	348
6	Exchange interactions in III-V and group-IV diluted magnetic semiconductors. <i>Physical Review B</i> , 2004, 69, .	1.1	283
7	Magnetic Percolation in Diluted Magnetic Semiconductors. <i>Physical Review Letters</i> , 2004, 93, 137202.	2.9	263
8	Spin torques in ferromagnetic/normal-metal structures. <i>Physical Review B</i> , 2002, 65, .	1.1	224
9	Application of the thermodynamic extremal principle to modeling of thermodynamic processes in material sciences. <i>Philosophical Magazine</i> , 2005, 85, 3699-3707.	0.7	137
10	Exchange interactions, spin waves, and transition temperatures in itinerant magnets. <i>Philosophical Magazine</i> , 2006, 86, 1713-1752.	0.7	127
11	Exchange interactions and Curie temperatures in Ni <sub>2</sub> xMnSb alloys: First-principles study. <i>Physical Review B</i> , 2006, 73, .	1.1	117
12	Oscillatory Curie Temperature of Two-Dimensional Ferromagnets. <i>Physical Review Letters</i> , 2000, 85, 5424-5427.	2.9	109
13	Interface resistance of disordered magnetic multilayers. <i>Physical Review B</i> , 2001, 63, .	1.1	107
14	Ab initio theory of perpendicular magnetotransport in metallic multilayers. <i>Physical Review B</i> , 2000, 62, 15084-15095.	1.1	94
15	Disordered magnetic multilayers: Electron transport within the coherent potential approximation. <i>Physical Review B</i> , 2006, 73, .	1.1	93
16	Interatomic electron transport by semiempirical and ab initio tight-binding approaches. <i>Physical Review B</i> , 2002, 65, .	1.1	85
17	Large Negative Magnetic Contribution to the Thermal Expansion in Iron-Platinum Alloys: Quantitative Theory of the Invar Effect. <i>Physical Review Letters</i> , 2003, 91, 037201.	2.9	82
18	Itinerant magnetism of disordered Fe-Co and Ni-Cu alloys in two and three dimensions. <i>Physical Review B</i> , 1994, 49, 3352-3362.	1.1	79

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19	Interlayer magnetic coupling: Effect of interface roughness. <i>Physical Review B</i> , 1996, 53, 5125-5128.	1.1	78
20	Ab initio theory of exchange interactions and the Curie temperature of bulk Gd. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 2771-2782.	0.7	76
21	Random-phase approximation for critical temperatures of collinear magnets with multiple sublattices: GdX compounds (X=Mg, Rh, Ni, Pd). <i>Physical Review B</i> , 2005, 71, .	1.1	76
22	Local spin-density theory of itinerant magnetism in crystalline and amorphous transition metal alloys. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 7257-7284.	0.7	70
23	On diffusion-controlled evolution of closed solid-state thermodynamic systems at constant temperature and pressure. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1991, 64, 749-759.	0.6	63
24	Spin-Dependent Transparency of Ferromagnet/Superconductor Interfaces. <i>Physical Review Letters</i> , 2002, 89, 166603.	2.9	63
25	Spin injection through an Fe/InAs interface. <i>Physical Review B</i> , 2003, 67, .	1.1	63
26	Magnetism of amorphous iron: From ferromagnetism to antiferromagnetism and spin-glass behavior. <i>Physical Review B</i> , 1992, 46, 247-256.	1.1	62
27	Magnetic anisotropy energy of disordered tetragonal Fe-Co systems from <i>ab initio</i> alloy theory. <i>Physical Review B</i> , 2012, 86, .	1.1	59
28	Magnetic properties and disorder effects in diluted magnetic semiconductors. <i>Physical Review B</i> , 2005, 72, .	1.1	57
29	Ab initio theory of galvanomagnetic phenomena in ferromagnetic metals and disordered alloys. <i>Physical Review B</i> , 2012, 86, .	1.1	57
30	Potential, core-level, and d-band shifts at transition-metal surfaces. <i>Physical Review B</i> , 1996, 54, 8892-8898.	1.1	55
31	Self-consistent Green's-function method for random overlayers. <i>Physical Review B</i> , 1992, 46, 4222-4228.	1.1	53
32	Interlayer Exchange Coupling: The Effect of Substitutional Disorder. <i>Physical Review Letters</i> , 1996, 76, 4254-4257.	2.9	53
33	Physical properties of FeRh alloys: The antiferromagnetic to ferromagnetic transition. <i>Physical Review B</i> , 2015, 91, .	1.1	53
34	Ferromagnetism of Imperfect Ultrathin Ru and Rh Films on a Ag(001) Substrate. <i>Physical Review Letters</i> , 1995, 74, 2551-2554.	2.9	47
35	Electronic, magnetic, and transport properties and magnetic phase transition in quaternary (Cu,Ni)MnSb Heusler alloys. <i>Physical Review B</i> , 2008, 78, .	1.1	47
36	Anomalous Hall effect in stoichiometric Heusler alloys with native disorder: A first-principles study. <i>Physical Review B</i> , 2013, 88, .	1.1	47

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37	First-principles study of the electronic structure and exchange interactions in bcc europium. Physical Review B, 2003, 68, .	1.1	46
38	Calculating scattering matrices by wave function matching. Physica Status Solidi (B): Basic Research, 2008, 245, 623-640.	0.7	46
39	Self-consistent Greenâ€™s-function method for surfaces of random alloys. Physical Review B, 1993, 47, 16525-16531.	1.1	44
40	Spin-disorder resistivity of ferromagnetic metals from first principles: The disordered-local-moment approach. Physical Review B, 2012, 86, .	1.1	44
41	A maximum-entropy approach to the density of states within the recursion method. Journal of Physics C: Solid State Physics, 1988, 21, 3251-3260.	1.5	42
42	Magnetic coupling of interfaces: A surface-Greenâ€™s-function approach. Physical Review B, 1994, 50, 16105-16108.	1.1	39
43	Spin-mixing conductances of thin magnetic films from first principles. Physical Review B, 2007, 76, .	1.1	36
44	Interlayer magnetic coupling: The torque method. Physical Review B, 1996, 53, 15036-15044.	1.1	35
45	Magnetic Phase Control in Monolayer Films by Substrate Tuning. Physical Review Letters, 2007, 99, 187203.	2.9	35
46	Fermi sea term in the relativistic linear muffin-tin-orbital transport theory for random alloys. Physical Review B, 2014, 89, .	1.1	34
47	Substrate-induced antiferromagnetism of a Fe monolayer on the Ir(001) surface. Physical Review B, 2009, 80, .	1.1	33
48	Magnetism of mixed quaternary Heusler alloys: $\langle \text{Ni} \rangle$		

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55	Electronic properties of $\text{Zr}$ . Physical Review B, 2015, 91, .		
56	Electron transport in magnetic multilayers: Effect of disorder. Physical Review B, 2002, 65, .	1.1	27
57	Unified thermodynamic treatment of cavity nucleation and growth in high temperature creep. Acta Metallurgica Et Materialia, 1990, 38, 573-580.	1.9	26
58	Magnetism-induced ordering in two and three dimensions. Physical Review B, 1994, 50, 9603-9606.	1.1	26
59	Ab Initio Study of Curie Temperatures of Diluted Magnetic Semiconductors. Journal of Superconductivity and Novel Magnetism, 2003, 16, 119-122.	0.5	25
60	Relativistic LMTO method for systems of light elements. Philosophical Magazine, 2008, 88, 2787-2798.	0.7	25
61	Residual resistivity of diluted $\text{V}$ magnetic semiconductors. Journal of Physics Condensed Matter, 2004, 16, S5607-S5614.	0.7	24
62	Ab initio theory of exchange interactions in itinerant magnets. Physica Status Solidi (B): Basic Research, 2003, 236, 318-324.	0.7	22
63	Temperature dependence of the interlayer exchange coupling in magnetic multilayers: An ab initio approach. Physical Review B, 1999, 60, 9588-9595.	1.1	21
64	Formation of a weak ferromagnetic state in $\text{Y}(\text{Co}_{1-x}\text{Al}_x)_2$ compounds: a coherent potential approximation study. Journal of Physics Condensed Matter, 2001, 13, 8405-8414.	0.7	21
65	Electronic structure and volume magnetostriction of rare-earth metals and compounds. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 357-363.	1.0	21
66	Ab initio theory of surface segregation: Self-consistent determination of the concentration profile. Physical Review B, 1996, 54, 8202-8212.	1.1	20
67	Transport properties of iron at Earth's core conditions: The effect of spin disorder. Physical Review B, 2017, 96, .	1.1	20
68	Electronic structure and magnetism of diluted magnetic semiconductors. Journal of Physics Condensed Matter, 2004, 16, S5481-S5489.	0.7	19
69	Phase and magnetic studies of the high-energy alloyed $\text{Ni-Fe}$ . Journal of Alloys and Compounds, 2014, 594, 133-140.	2.8	19
70	UH <sub>3</sub> -based ferromagnets: New look at an old material. Journal of Magnetism and Magnetic Materials, 2016, 400, 130-136.	1.0	18
71	Effects of atomic and magnetic order on electronic transport in Pd-rich Pd-Fe alloys. Physical Review B, 2011, 84, .	1.1	17
72	Interlayer exchange coupling through ordered and disordered alloy spacers. Journal of Magnetism and Magnetic Materials, 1997, 165, 128-133.	1.0	16

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73	Magnetoresistance in domain walls: effect of randomness. Surface Science, 2001, 482-485, 1107-1112.	0.8	16
74	Electronic and transport properties of the Mn-doped topological insulator $\text{Bi}_{2-x}\text{Mn}_x\text{Te}$ . A first-principles study. Physical Review B, 2016, 93, .	2.1	16
75	Physical properties of the tetragonal CuMnAs: A first-principles study. Physical Review B, 2017, 96, .	1.1	16
76	Microstructure and physical properties of mechanically alloyed Fe $\epsilon$ -Mo powder. Journal of Alloys and Compounds, 2009, 477, 55-61.	2.8	15
77	Unified approach to electronic, thermodynamical, and transport properties of $\text{Fe}_3\text{Mg}$ . Physical Review B, 2014, 90, .	1.1	15
78	Crystal Structure and Magnetic Properties of Uranium Hydride $\text{UH}_2$ Stabilized as a Thin Film. Inorganic Chemistry, 2018, 57, 14727-14732.	1.9	15
79	Electronic and magnetic structure of amorphous Fe-, Co-, Ni-, Zr alloys from band theory. Journal of Magnetism and Magnetic Materials, 1992, 109, L145-L150.	1.0	14
80	Metallic and semiconducting phases of metal-doped fullerenes. Physical Review B, 1993, 48, 14925-14935.	1.1	13
81	The TB-LMTO method and its relation to the screened KKR method. International Journal of Quantum Chemistry, 1997, 63, 165-188.	1.0	13
82	Electronic structure and transport properties of CrAs $\delta$ -GaAs $\delta$ -CrAs trilayers from first principles theory. Physical Review B, 2004, 70, .	1.1	13
83	First-principles study of spin-disorder resistivity of heavy rare-earth metals: Gd $\epsilon$ -Tm series. Physical Review B, 2012, 85, .	1.1	13
84	An Ab Initio Study of Pressure-Induced Changes of Magnetism in Austenitic Stoichiometric Ni $_2$ MnSn. Materials, 2021, 14, 523.	1.3	13
85	Exchange interactions and critical temperatures in diluted magnetic semiconductors. Journal of Physics Condensed Matter, 2004, 16, S5571-S5578.	0.7	12
86	Effective magnetic Hamiltonians from first principles. EPJ Web of Conferences, 2013, 40, 11001.	0.1	12
87	Correlated Doping in Semiconductors: the Role of Donors in III-V Diluted Magnetic Semiconductors. Acta Physica Polonica A, 2002, 102, 673-678.	0.2	12
88	Electronic structure and hyperfine parameters distribution in amorphous Fe $_80$ B $_20$ cluster. Journal of Magnetism and Magnetic Materials, 1991, 98, 119-129.	1.0	11
89	Electronic structure of random Ag-Pd and Ag-vacancy overlayers on an fcc Pd(001) substrate. Physical Review B, 1993, 48, 1870-1876.	1.1	11
90	New Type of Oscillatory Exchange Coupling Induced by Ordering in the Magnetic Layers. Physical Review Letters, 1996, 76, 3834-3837.	2.9	11

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91	Interdiffusion and exchange coupling in Cr overlayers on a Fe(001) substrate. Physical Review B, 2000, 63, .	1.1	11
92	Origin of the negative giant magnetoresistance effect in $\text{Co}_{1-x}\text{Cr}_x/\text{Cu}/\text{Co}(111)$ trilayers. Physical Review B, 2004, 69, .	1.1	11
93	Influence of symmetry on Sm magnetism studied on $\text{SmIr}_2\text{Si}_2$ polymorphs. Journal of Alloys and Compounds, 2013, 574, 459-466.	2.8	11
94	Galvanomagnetic properties of partially ordered alloys. Physical Review B, 2014, 89, .	1.4	11
95	Ab-initio calculations of the electronic and atomic structure of solids and their surfaces. Computer Physics Communications, 1996, 97, 111-123.	3.0	10
96	Reformulation of the Korringa - Kohn - Rostoker coherent potential approximation for the treatment of space-filling cell potentials and charge-transfer effects. Journal of Physics Condensed Matter, 1996, 8, 7869-7881.	0.7	10
97	Exchange Interactions at Surfaces of Fe, Co, and Gd. European Physical Journal D, 2003, 53, 81-88.	0.4	10
98	Calculated electronic and transport properties of Fe/GaAs/Fe(001) tunnel junctions. Surface Science, 2004, 566-568, 303-308.	0.8	10
99	Relation of Curie temperature and conductivity: (Ga,Mn)As alloy as a case study. Applied Physics Letters, 2007, 91, .	1.5	10
100	Origin of the negative volume magnetostriction of the intermetallic compound $\text{GdAl}_2$ . Journal of Alloys and Compounds, 2007, 431, 37-41.	2.8	10
101	Pressure effect on magnetic moments in ordered $\text{Ni}_3\text{Mn}$ and disordered $\text{Ni}_{100-x}\text{Mn}_x$ alloys: ab initio calculation and experiment. High Pressure Research, 2011, 31, 116-120.	0.4	10
102	Electronic and transport properties of a new quaternary Heusler alloy $\text{CoMnFeSi}$ . Physical Review B, 2018, 97, .	1.1	10
103	Compositional Dependence of the Formation Energies of Substitutional and Interstitial Mn in Partially Compensated (Ga,Mn)As. Acta Physica Polonica A, 2004, 105, 637-644.	0.2	10
104	A first-principles calculation of the magnetic moments and hyperfine parameters in amorphous Fe-B alloys. Journal of Physics Condensed Matter, 1990, 2, 10559-10572.	0.7	9
105	The CPP transport in metallic magnetic multilayers. Surface Science, 2000, 454-456, 918-924.	0.8	9
106	Perpendicular-current giant magnetoresistance of $\text{M}\hat{\text{a}}\cdot\text{Cu}\hat{\text{a}}\cdot\text{M}$ (001) junctions (M=Fe, Co, or Ni): Anab initiostudy. Journal of Applied Physics, 2004, 96, 4352-4356.	1.1	9
107	Strong 5f Ferromagnetism in UH3-Based Materials. MRS Advances, 2016, 1, 2987-2992.	0.5	9
108	Fully Relativistic Temperature-Dependent Electronic Transport Properties of Magnetic Alloys From the First Principles. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	9

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109	Magnetic properties of Mn-doped $\text{Bi}_2\text{Te}_3$ topological insulators: <i>Ab initio</i> calculations. <i>Physical Review B</i> , 2020, 101, .		
110	Electrical transport properties of bulk tetragonal CuMnAs. <i>Physical Review Materials</i> , 2020, 4, .	0.9	9
111	Charge-transfer effects in disordered alloys: the test case of Al - Li alloys. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 7883-7898.	0.7	8
112	Investigations of grain boundaries in copper using emission Mössbauer spectroscopy. , 2000, 126, 215-218.		8
113	On magnetically dead layers at Nb-Co interface. <i>Solid State Communications</i> , 2002, 124, 21-23.	0.9	8
114	<i>Ab initio</i> calculations of Curie temperatures in GdX compounds. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 930-933.	2.8	8
115	Spin-mixing conductances of metallic and half-metallic magnetic layers. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 365203.	0.7	8
116	Landauer theory of ballistic transport in noncollinear spin valves. <i>Physical Review B</i> , 2009, 80, .	1.1	8
117	Magnetic phase stability of monolayers: Fe on a $\text{TaW}_2\text{Te}_3(001)$ random alloy as a case study. <i>Physical Review B</i> , 2010, 81, .	1.1	8
118	Defect-induced magnetic structure of CuMnSb. <i>Physical Review B</i> , 2016, 94, .	1.1	8
119	XPS, UPS, and BIS study of pure and alloyed $\text{U}_2\text{Te}_3$ films: Electronic structure, bonding, and magnetism. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020, 239, 146904.	0.8	8
120	Disordered Alloys and Their Surfaces: The Coherent Potential Approximation. , 1999, , 349-378.		8
121	Electronic structure of amorphous Fe-Zr alloys. <i>Journal of Non-Crystalline Solids</i> , 1993, 156-158, 246-250.	1.5	7
122	<i>Ab-initio</i> theory of the CPP-magnetoconductance. <i>European Physical Journal D</i> , 1999, 49, 1583-1589.	0.4	7
123	Transport properties and electronic structure of epitaxial tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 240, 117-120.	1.0	7
124	Phase stability and ordering in diluted magnetic III-V semiconductors. <i>Philosophical Magazine</i> , 2004, 84, 1889-1905.	0.7	7
125	<i>Ab initio</i> theory of the spin-dependent conductivity tensor and the spin Hall effect in random alloys. <i>Physical Review B</i> , 2019, 100, .	1.1	7
126	Temperature-dependent resistivity and anomalous Hall effect in NiMnSb from first principles. <i>Physical Review B</i> , 2019, 99, .	1.1	7



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127	Alloy disorder and fluctuating magnetic moments in the Earth's core. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 767-771.	1.0	7
128	Tetragonal CuMnAs alloy: Role of defects. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 467-471.	1.0	7
129	Oscillatory behavior of interface exchange coupling caused by finite caps of variable thickness. <i>Computational Materials Science</i> , 1998, 10, 188-197.	1.4	6
130	Cr-Fe surface alloy on Fe substrate: CPA-TB-LMTO and semi-empirical TB calculations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 78, 637-642.	0.6	6
131	Microscopic theory of magnetization processes in $Y(\text{Co}_{1-x}\text{Al}_x)_2$ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 13799-13811.	0.7	6
132	Ab initio theory of transport in FeRh-based natural magnetic multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 240, 162-164.	1.0	6
133	Effects of alloying on electronic structure and magnetism of $Y(\text{Co}_{1-x}\text{M}_x)_2$ (M=Al, Si, Fe, Cu) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 312-314.	1.0	6
134	Exchange interactions and correlations in Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1654-1656.	1.0	6
135	Residual resistivity and its anisotropy in random CoNi and CuNi ferromagnetic alloys. <i>Journal of Physics: Conference Series</i> , 2010, 200, 052029.	0.3	6
136	Effect of partial order on galvanomagnetic transport properties of ferromagnetic PdFe and PdCo alloys. <i>Physical Review B</i> , 2015, 92, .	1.1	6
137	Electrical transport with temperature-induced spin disorder in NiMnSb. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 517-521.	1.0	6
138	Pressure variations of the 5f magnetism in UH <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165993.	1.0	6
139	Pressure-Induced Increase of the Total Magnetic Moment in Ferrimagnetic $\text{Ni}_{1.9375}\text{Mn}_{1.5625}\text{Sn}_{0.5}$ ; Martensite: A Quantum-Mechanical Study. <i>Materials Transactions</i> , 2022, 63, 430-435.	0.4	6
140	Mixed hyperfine interactions in amorphous materials: A model study. <i>Hyperfine Interactions</i> , 1991, 62, 343-351.	0.2	5
141	Aspects of magnetotunnelling drawn from <i>ab-initio</i> -type calculations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 1027-1045.	0.6	5
142	Title is missing!. <i>European Physical Journal D</i> , 2002, 52, 203-208.	0.4	5
143	Calculations of magnetic transition temperatures of Gd-based compounds. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 1079-1080.	1.3	5
144	Magnetotransport in Pd-Rich PdFe Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1749-1752.	0.8	5

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145	The disordered local moment approach to the spin-disorder resistivity of metallic ferromagnets. EPJ Web of Conferences, 2013, 40, 12001.	0.1	5
146	Electron transport in high-entropy alloys: Al <sub>x</sub> CrFeCoNi as a case study. Physical Review B, 2019, 100, .	1.1	5
147	Large anomalous Hall angle in the $\text{Fe}_{1-x}\text{Mn}_x\text{Al}$ alloy induced by substitutional atomic disorder. Physical Review B, 2020, 101, .	1.6	5
148	Transmission and Reflection of Spin-Polarized Electrons Propagating through a Model Domain Wall. Acta Physica Polonica A, 2008, 113, 15-18.	0.2	5
149	First-principles calculations of the structural, electronic, and magnetic properties of transition-metal glasses. Journal of Non-Crystalline Solids, 1992, 150, 307-313.	1.5	4
150	Properties of Iron Atoms at Grain Boundaries in Fe and Fe <sub>72</sub> Al <sub>28</sub> . Materials Research Society Symposia Proceedings, 1998, 527, 273.	0.1	4
151	Oscillatory Curie temperature of 2D-ferromagnets. Journal of Magnetism and Magnetic Materials, 2002, 240, 346-348.	1.0	4
152	Title is missing!. European Physical Journal D, 2002, 52, 215-218.	0.4	4
153	Exchange interactions and crystal-field effects in HoX (X = Cd, Cu, Mg, Rh, Zn) intermetallic compounds. Physica B: Condensed Matter, 2006, 381, 265-270.	1.3	4
154	Local moments, exchange interactions, and magnetic order in Mn-doped LaFe <sub>2</sub> Si <sub>2</sub> alloys. Journal of Magnetism and Magnetic Materials, 2007, 316, e403-e406.	1.0	4
155	Electronic structure and magnetism of MnFeP <sub>1-x</sub> Si <sub>x</sub> alloys from first-principles calculations. Physica B: Condensed Matter, 2008, 403, 3276-3278.	1.3	4
156	Anisotropy of Magnetic Moments and Energy in Tetragonal Fe <sub>1-x</sub> Co <sub>x</sub> Alloys from First Principles. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1581-1584.	0.8	4
157	Methods of electron transport in ab initio theory of spin stiffness. Physical Review B, 2020, 101, .	1.1	4
158	Self-Consistent Green's Function Method for Random Surfaces and Interfaces. NATO ASI Series Series B: Physics, 1996, , 237-264.	0.2	4
159	Spin-dependent electrical transport at finite temperatures from the first principles. , 2017, , .		4
160	Bulk and Epitaxial Co <sub>2</sub> MnSi Systems with Antisite Disorder: Ab Initio Calculations. Acta Physica Polonica A, 2008, 113, 183-186.	0.2	4
161	Relaxation effects in the Mössbauer hyperfine structure of amorphous Fe <sub>70</sub> Co <sub>10</sub> B <sub>20</sub> at 125 Å°C. Hyperfine Interactions, 1990, 55, 1089-1092.	0.2	3
162	Electronic properties of random magnetic surfaces. Progress in Surface Science, 1994, 46, 159-175.	3.8	3

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163	Electronic properties of random surfaces. Computational Materials Science, 1994, 2, 379-388.	1.4	3
164	Interlayer magnetic coupling: Effect of disorder in spacer. Journal of Magnetism and Magnetic Materials, 1996, 156, 245-246.	1.0	3
165	Ab initio theory of the interlayer exchange coupling in random metallic systems. Journal of Physics Condensed Matter, 2001, 13, 8539-8549.	0.7	3
166	Perpendicular transport in layered magnetic systems: ab initio study. Computational Materials Science, 2002, 25, 584-589.	1.4	3
167	Ab initio theory of perpendicular transport in layered magnetic systems. Journal of Magnetism and Magnetic Materials, 2002, 240, 177-179.	1.0	3
168	Transport Properties of (Ga,Mn)As Diluted Magnetic Semiconductors in the Bulk and in Layered Systems. Advances in Science and Technology, 2006, 52, 1-10.	0.2	3
169	Ab initio theory of spin-transfer torques. Journal of Magnetism and Magnetic Materials, 2007, 316, e926-e929.	1.0	3
170	Spin-mixing conductances: The influence of disorder. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1805-1808.	0.8	3
171	Tunnelling anisotropic magnetoresistance of Fe/GaAs/Ag(001) junctions from first principles: effect of hybridized interface resonances. Journal of Physics Condensed Matter, 2012, 24, 365801.	0.7	3
172	Nanostructure, Composition, and Magnetic Behavior of Mechanically Alloyed Fe-Mo. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1717-1721.	0.8	3
173	Influence of Molybdenum on the Alloying and Physical Properties of Fe-Al. Journal of Superconductivity and Novel Magnetism, 2015, 28, 905-910.	0.8	3
174	Ab Initio Theory of the Gilbert Damping in Random Ferromagnetic Alloys. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1669-1672.	0.8	3
175	Galvanomagnetic Transport Properties and Gilbert Damping in Ferromagnetic PdCo Alloys. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1367-1370.	0.8	3
176	Spin-disorder resistivity of random fcc-NiFe alloys. Physical Review B, 2018, 98, .	1.1	3
177	Antiferromagnetic CuMnAs: Ab initio description of finite temperature magnetism and resistivity. Journal of Magnetism and Magnetic Materials, 2020, 513, 167078.	1.0	3
178	Ab Initio Theory of the Interlayer Exchange Coupling. , 1999, , 313-346.		3
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