

Josef Kudrnovsky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

271
papers

8,143
citations

45
h-index

82
g-index

272
ext. papers

8,586
ext. citations

3.1
avg. IF

5.61
L-index

#	Paper	IF	Citations
271	Temperature-dependent resistivity and anomalous Hall effect in NiMnSb from first principles. <i>Physical Review B</i> , 2019 , 99,	3.3	6
270	Electron transport in high-entropy alloys: AlxCrFeCoNi as a case study. <i>Physical Review B</i> , 2019 , 100,	3.3	4
269	Ab initio theory of the spin-dependent conductivity tensor and the spin Hall effect in random alloys. <i>Physical Review B</i> , 2019 , 100,	3.3	3
268	Alloy disorder and fluctuating magnetic moments in the Earth's core. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 475, 767-771	2.8	4
267	Electrical transport with temperature-induced spin disorder in NiMnSb. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 517-521	2.8	5
266	Tetragonal CuMnAs alloy: Role of defects. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 467-478	2.8	5
265	Electronic and transport properties of a new quaternary Heusler alloy CoMnFeSi. <i>Physical Review B</i> , 2018 , 97,	3.3	8
264	Electronic structure in the twinned 10M martensite phase of the Ni _{49.7} Mn _{29.1} Ga _{21.2} Heusler alloy: Experiment and theory. <i>Physical Review B</i> , 2018 , 98,	3.3	3
263	Spin-disorder resistivity of random fcc-NiFe alloys. <i>Physical Review B</i> , 2018 , 98,	3.3	3
262	Structure and physical properties of quaternary Heusler alloy NiMnCuSb. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 444, 338-343	2.8	4
261	Physical properties of the tetragonal CuMnAs: A first-principles study. <i>Physical Review B</i> , 2017 , 96,	3.3	13
260	Transport properties of iron at Earth's core conditions: The effect of spin disorder. <i>Physical Review B</i> , 2017 , 96,	3.3	19
259	Galvanomagnetic Transport Properties and Gilbert Damping in Ferromagnetic PdCo Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1367-1370	1.5	3
258	4-d magnetism: Electronic structure and magnetism of some Mo-based alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 423, 12-19	2.8	3
257	Spin-orbit driven phenomena in the isoelectronic L10-Fe(Pd,Pt) alloys from first principles. <i>Physical Review B</i> , 2017 , 96,	3.3	1
256	Defects and magnetic structure of CuMnSb. <i>Journal of Physics: Conference Series</i> , 2017 , 903, 012034	0.3	
255	Exchange and spin-orbit induced phenomena in diluted (Ga,Mn)As from first principles. <i>Physical Review B</i> , 2016 , 94,	3.3	2

254	Electronic and transport properties of the Mn-doped topological insulator Bi ₂ Te ₃ : A first-principles study. <i>Physical Review B</i> , 2016 , 93,	3.3	12
253	Coherence and stiffness of spin waves in diluted ferromagnets. <i>Physical Review B</i> , 2016 , 94,	3.3	2
252	Electronic structure and magnetism of Ge(Sn)TMXTe _{1-x} (TM = V, Cr, Mn): A first principles study. <i>AIP Advances</i> , 2016 , 6, 125005	1.5	4
251	Surface analysis of the Heusler Ni _{49.7} Mn _{29.1} Ga _{21.2} Alloy: The composition, phase transition, and twinned microstructure of martensite. <i>Journal of Applied Physics</i> , 2016 , 120, 113905	2.5	2
250	Defect-induced magnetic structure of CuMnSb. <i>Physical Review B</i> , 2016 , 94,	3.3	6
249	Half-metallicity, magnetism and electrical resistivity of Sn _{1-x} Mn _x Te alloys in rock salt and zinc blende structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 375, 15-25	2.8	7
248	Band mapping of the weakly off-stoichiometric Heusler alloy Ni _{49.7} Mn _{29.1} Ga _{21.2} in the austenitic phase. <i>Physical Review B</i> , 2015 , 91,	3.3	6
247	Nonlocal torque operators in ab initio theory of the Gilbert damping in random ferromagnetic alloys. <i>Physical Review B</i> , 2015 , 92,	3.3	24
246	Effect of partial order on galvanomagnetic transport properties of ferromagnetic PdFe and PdCo alloys. <i>Physical Review B</i> , 2015 , 92,	3.3	4
245	Relativistic Effects on Electron Transport in Magnetic Alloys. <i>Physics Procedia</i> , 2015 , 75, 948-955		
244	Physical properties of FeRh alloys: The antiferromagnetic to ferromagnetic transition. <i>Physical Review B</i> , 2015 , 91,	3.3	45
243	Room-temperature antiferromagnetic memory resistor. <i>Nature Materials</i> , 2014 , 13, 367-74	27	435
242	Unified approach to electronic, thermodynamical, and transport properties of Fe ₃ Si and Fe ₃ Al alloys. <i>Physical Review B</i> , 2014 , 90,	3.3	13
241	Galvanomagnetic properties of partially ordered L1 ₀ FePt alloys. <i>Physical Review B</i> , 2014 , 89,	3.3	10
240	Fermi sea term in the relativistic linear muffin-tin-orbital transport theory for random alloys. <i>Physical Review B</i> , 2014 , 89,	3.3	30
239	Anisotropy of Magnetic Moments and Energy in Tetragonal Fe _{1-x} Co _x Alloys from First Principles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1581-1584	1.5	3
238	Magnetotransport in Pd-Rich PdFe Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1749-1752	1.5	4
237	Effective Magnetic Hamiltonians. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1997-2000.	1.5	1

236	Critical Temperatures of Random Iron-Cobalt Overlayers on the fcc-Cu(001) Substrate. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 809-812	1.5	1
235	Magnetism, half-metallicity and electrical transport properties of V- and Cr-doped semiconductor SnTe: A theoretical study. <i>Journal of Applied Physics</i> , 2013 , 114, 213704	2.5	7
234	Anomalous Hall effect in stoichiometric Heusler alloys with native disorder: A first-principles study. <i>Physical Review B</i> , 2013 , 88,	3.3	40
233	The disordered local moment approach to the spin-disorder resistivity of metallic ferromagnets. <i>EPJ Web of Conferences</i> , 2013 , 40, 12001	0.3	5
232	Influence of oxygen and hydrogen adsorption on the magnetic structure of an ultrathin iron film on an Ir(001) surface. <i>Physical Review B</i> , 2013 , 88,	3.3	8
231	First-principles study of thermodynamical properties of random magnetic overlayers on fcc-Cu(001) substrate. <i>Physical Review B</i> , 2013 , 87,	3.3	4
230	Effective magnetic Hamiltonians from first principles. <i>EPJ Web of Conferences</i> , 2013 , 40, 11001	0.3	11
229	Magnetic anisotropy energy of disordered tetragonal Fe-Co systems from ab initio alloy theory. <i>Physical Review B</i> , 2012 , 86,	3.3	51
228	Spin-disorder resistivity of ferromagnetic metals from first principles: The disordered-local-moment approach. <i>Physical Review B</i> , 2012 , 86,	3.3	39
227	Half-metallicity and magnetism of GeTe doped with transition metals V, Cr, and Mn: A theoretical study from the viewpoint of application in spintronics. <i>Journal of Applied Physics</i> , 2012 , 112, 053902	2.5	20
226	Ab initio theory of galvanomagnetic phenomena in ferromagnetic metals and disordered alloys. <i>Physical Review B</i> , 2012 , 86,	3.3	49
225	Magnetism and electronic transport in (Ni, Cu) ₂ MnSn Heusler alloys under ambient and elevated pressures. <i>World Journal of Engineering</i> , 2012 , 9, 13-22	1.8	4
224	First-principles calculations of transport and magnetic properties of rare-earth materials 2012 ,		2
223	Noncollinear magnetic ordering in compressed FePd ₃ ordered alloy: A first principles study. <i>Physical Review B</i> , 2012 , 86,	3.3	13
222	First-principles study of spin-disorder resistivity of heavy rare-earth metals: Gd _m series. <i>Physical Review B</i> , 2012 , 85,	3.3	12
221	Magnetism and half-metallicity of some Cr-based alloys and their potential for application in spintronic devices. <i>World Journal of Engineering</i> , 2012 , 9, 125-132	1.8	2
220	Effects of atomic and magnetic order on electronic transport in Pd-rich Pd-Fe alloys. <i>Physical Review B</i> , 2011 , 84,	3.3	14
219	Pressure dependence of Curie temperature and resistivity in complex Heusler alloys. <i>Physical Review B</i> , 2011 , 84,	3.3	24

218	Pressure effect on magnetic moments in ordered Ni ₃ Mn and disordered Ni _{100-x} Mn _x alloys: ab initio calculation and experiment. <i>High Pressure Research</i> , 2011 , 31, 116-120	1.6	8
217	Exchange Interactions in the Bcc Fe/TaW(001) System. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010 , 8, 157-160	0.7	
216	Microscopic analysis of the valence band and impurity band theories of (Ga,Mn)As. <i>Physical Review Letters</i> , 2010 , 105, 227202	7.4	33
215	Effect of P-anion codoping on the Curie temperature of GaMnAs diluted magnetic semiconductors. <i>Physical Review B</i> , 2010 , 82,	3.3	3
214	Magnetism of mixed quaternary Heusler alloys: (Ni,T) ₂ MnSn (T=Cu,Pd) as a case study. <i>Physical Review B</i> , 2010 , 82,	3.3	25
213	Magnetic phase stability of monolayers: Fe on a TaxW _{1-x} (001) random alloy as a case study. <i>Physical Review B</i> , 2010 , 81,	3.3	8
212	Ordering in random overlayers: the correlated cluster mean-field method. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 395005	1.8	1
211	First-principles theory of dilute magnetic semiconductors. <i>Reviews of Modern Physics</i> , 2010 , 82, 1633-1690	10.5	855
210	Exchange interactions and Curie temperatures in Cr-based alloys in the zinc blende structure: Volume- and composition-dependence from first-principles calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	25
209	First-principles theoretical studies of half-metallic ferromagnetism in CrTe. <i>Physical Review B</i> , 2010 , 82,	3.3	39
208	First-principles study of properties of semi-Heusler (Cu,Ni)MnSb alloys. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 032036	0.3	1
207	Disorder-Induced Antiferromagnetic to Ferromagnetic Transition in Magnetic Overlayers: (Fe,Mn)/W(001) as a Case Study. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010 , 8, 184-189	0.7	
206	Antiferromagnetic Ordering in the Fe(001) Monolayer Mediated by the Ir Substrate. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010 , 8, 152-156	0.7	
205	Substrate-induced antiferromagnetism of a Fe monolayer on the Ir(001) surface. <i>Physical Review B</i> , 2009 , 80,	3.3	32
204	Magnetic properties of fcc Ni-based transition metal alloys. <i>International Journal of Materials Research</i> , 2009 , 100, 1193-1196	0.5	
203	Magnetic properties of fcc Ni-based transition metal alloys. <i>Physical Review B</i> , 2008 , 77,	3.3	41
202	Curie temperatures of fcc and bcc nickel and permalloy: Supercell and Green's function methods. <i>Physical Review B</i> , 2008 , 77,	3.3	32
201	Magnetism without magnetic impurities in oxides ZrO ₂ and TiO ₂ . <i>Philosophical Magazine</i> , 2008 , 88, 2755-2764	1.7	21

200	Magnetism without magnetic impurities in ZrO ₂ oxide. <i>Applied Physics Letters</i> , 2008 , 92, 212503	3.4	124
199	Relativistic LMTO method for systems of light elements. <i>Philosophical Magazine</i> , 2008 , 88, 2787-2798	1.6	24
198	Electronic and magnetic properties of quaternary (Cu, Ni)MnSb alloys. <i>Philosophical Magazine</i> , 2008 , 88, 2739-2746	1.6	1
197	TB-LMTO method for an embedded cluster. <i>Philosophical Magazine</i> , 2008 , 88, 2777-2786	1.6	
196	Electronic, magnetic, and transport properties and magnetic phase transition in quaternary (Cu,Ni)MnSb Heusler alloys. <i>Physical Review B</i> , 2008 , 78,	3.3	45
195	Ordering effects in diluted magnetic semiconductors. <i>Phase Transitions</i> , 2007 , 80, 333-350	1.3	5
194	Magnetic order of FeMn alloy on the W(0 0 1) surface. <i>Surface Science</i> , 2007 , 601, 4261-4264	1.8	4
193	Exchange interactions and correlations in Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1654-1656	2.8	6
192	Ab initio calculations of transport properties of epitaxial (Ga,Mn)As systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2123-2125	2.8	1
191	Mn-doped Ga(As,P) and (Al,Ga)As ferromagnetic semiconductors: Electronic structure calculations. <i>Physical Review B</i> , 2007 , 75,	3.3	39
190	Mn-stabilized zirconia: from imitation diamonds to a new potential high-T _c ferromagnetic spintronics material. <i>Physical Review Letters</i> , 2007 , 98, 016101	7.4	84
189	Relation of Curie temperature and conductivity: (Ga,Mn)As alloy as a case study. <i>Applied Physics Letters</i> , 2007 , 91, 102509	3.4	9
188	Magnetism of 3d transition metal atoms on W(001): submonolayer films. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 894-898	0.3	
187	Dilute moment n-type ferromagnetic semiconductor Li(Zn,Mn)As. <i>Physical Review Letters</i> , 2007 , 98, 067202	7.4	69
186	Interstitial Mn in (Ga,Mn)As: Hybridization with Conduction Band and Electron Mediated Exchange Coupling. <i>Acta Physica Polonica A</i> , 2007 , 112, 215-219	0.6	
185	Exchange interactions, spin waves, and transition temperatures in itinerant magnets. <i>Philosophical Magazine</i> , 2006 , 86, 1713-1752	1.6	101
184	Chemical ordering and composition fluctuations at the (001) surface of the Fe ₆₄ Ni ₃₆ Invar alloy. <i>Physical Review B</i> , 2006 , 74,	3.3	8
183	Disordered magnetic multilayers: Electron transport within the coherent potential approximation. <i>Physical Review B</i> , 2006 , 73,	3.3	90

182	Exchange interactions and Curie temperatures in Ni ₂ MnSb alloys: First-principles study. <i>Physical Review B</i> , 2006 , 73,	3.3	103
181	Comparison between ab-initio and phenomenological modeling of the exchange couplings in diluted magnetic semiconductors: the case of Zn _{1-x} CrxTe. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2989-2994	1.6	2
180	Stability and ordering properties of fcc alloys based on Rh, Ir, Pd, and Pt. <i>Physical Review B</i> , 2006 , 74,	3.3	29
179	Surface resonance on the NiFe(001) alloy surface. <i>European Physical Journal D</i> , 2006 , 56, 69-74		3
178	Comparison of Exchange Interactions in II-VI, III-V, and I-II-V Dilute Magnetic Semiconductors: Density Functional Approach. <i>Acta Physica Polonica A</i> , 2006 , 110, 249-254	0.6	1
177	Calculating the Curie temperature reliably in diluted III-V ferromagnetic semiconductors. <i>Europhysics Letters</i> , 2005 , 69, 812-818	1.6	98
176	Compensation, interstitial defects, and ferromagnetism in diluted ferromagnetic semiconductors. <i>Physical Review B</i> , 2005 , 72,	3.3	48
175	Ab-Initio Study of Diluted Magnetic Semiconductors 2005 , 277-293		1
174	Phase Stability and Ordering in (Ga,Mn)As Alloys 2005 , 87-97		
173	Reply to the Comment by S. Hilbert and W. Nolting on "Calculating the Curie temperature reliably in diluted III-V ferromagnetic semiconductors" <i>Europhysics Letters</i> , 2005 , 72, 324-325	1.6	
172	Magnetic properties and disorder effects in diluted magnetic semiconductors. <i>Physical Review B</i> , 2005 , 72,	3.3	55
171	Dynamical correlations in multiorbital Hubbard models: fluctuation exchange approximations. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 61-74	1.8	24
170	Application of ab initio and CALPHAD thermodynamics to Mo-Ta-W alloys. <i>Physical Review B</i> , 2005 , 71,	3.3	53
169	Residual resistivity of diluted III-V magnetic semiconductors. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5607-S5614	1.8	18
168	Exchange interactions and critical temperatures in diluted magnetic semiconductors. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5571-S5578	1.8	9
167	Origin of the negative giant magnetoresistance effect in Co _{1-x} Crx/Cu/Co (111) trilayers. <i>Physical Review B</i> , 2004 , 69,	3.3	11
166	Electronic structure and transport properties of CrAs _{1-x} TaAs _x As trilayers from first principles theory. <i>Physical Review B</i> , 2004 , 70,	3.3	12
165	Frustration and long-range behavior of the exchange interactions in AuFe spin-glass alloys. <i>Physical Review B</i> , 2004 , 70,	3.3	18

164	Can correlated substitution enhance the Curie temperature in diluted magnetic semiconductors?. <i>Applied Physics Letters</i> , 2004 , 85, 4941-4943	3.4	36
163	Electronic and phase stability properties of VX ($X = Pd, Rh, Ru$) alloys. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 5615-5630	1.8	2
162	Residual resistivity of (Ga,Mn)As alloys from ab initio calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1987-1988	2.8	2
161	Exchange interactions and Curie temperatures in diluted magnetic semiconductor. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1983-1984	2.8	6
160	Curie temperatures and exchange interactions in diluted group-IV magnetic semiconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1995-1996	2.8	1
159	Electronic structure and magnetism of diluted magnetic semiconductors. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5481-S5489	1.8	16
158	Coulomb correlation effects on the electronic structure of III-V diluted magnetic semiconductors. <i>Physical Review B</i> , 2004 , 69,	3.3	62
157	Phase stability and ordering in diluted magnetic III \bar{V} semiconductors. <i>Philosophical Magazine</i> , 2004 , 84, 1889-1905	1.6	7
156	Exchange interactions in III-V and group-IV diluted magnetic semiconductors. <i>Physical Review B</i> , 2004 , 69,	3.3	248
155	Magnetic percolation in diluted magnetic semiconductors. <i>Physical Review Letters</i> , 2004 , 93, 137202	7.4	250
154	On-site Coulomb interaction and the magnetism of (GaMn)N and (GaMn)As. <i>Physical Review B</i> , 2004 , 69,	3.3	91
153	Compositional Dependence of the Formation Energies of Substitutional and Interstitial Mn in Partially Compensated (Ga,Mn)As. <i>Acta Physica Polonica A</i> , 2004 , 105, 637-644	0.6	10
152	Ab initio theory of exchange interactions and the Curie temperature of bulk Gd. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 2771-2782	1.8	66
151	Ab Initio Study of Curie Temperatures of Diluted Magnetic Semiconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003 , 16, 119-122		24
150	Magnetic impurities and materials design for semiconductor spintronics. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 863-869	2.8	66
149	Ab initio theory of exchange interactions in itinerant magnets. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 236, 318-324	1.3	17
148	Lattice constant in diluted magnetic semiconductors (Ga,Mn)As. <i>Physical Review B</i> , 2003 , 67,	3.3	68
147	Ferromagnetism in diluted magnetic semiconductors: A comparison between ab initio mean-field, RPA, and Monte Carlo treatments. <i>Physical Review B</i> , 2003 , 68,	3.3	65

146	First-principles study of the electronic structure and exchange interactions in bcc europium. <i>Physical Review B</i> , 2003 , 68,	3.3	38
145	Disorder effects in diluted ferromagnetic semiconductors. <i>Physical Review B</i> , 2003 , 68,	3.3	26
144	Importance of complex band structure and resonant states for tunneling. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 108-113	2.8	23
143	Ab initio theory of transport in FeRh-based natural magnetic multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 162-164	2.8	5
142	Ab initio theory of perpendicular transport in layered magnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 177-179	2.8	2
141	Oscillatory Curie temperature of 2D-ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 346-348	2.8	3
140	Multiband Hubbard Hamiltonians with exchange: single-channel approximations. <i>Physica B: Condensed Matter</i> , 2002 , 312-313, 519-521	2.8	3
139	. <i>European Physical Journal D</i> , 2002 , 52, 203-208		3
138	. <i>European Physical Journal D</i> , 2002 , 52, 215-218		4
137	Electron transport in magnetic multilayers: Effect of disorder. <i>Physical Review B</i> , 2002 , 65,	3.3	24
136	Effects of resonant interface states on tunneling magnetoresistance. <i>Physical Review B</i> , 2002 , 65,	3.3	121
135	Exchange interactions in random magnetic overlayers. <i>Surface Science</i> , 2002 , 507-510, 567-572	1.8	2
134	Aspects of magnetotunnelling drawn from ab-initio-type calculations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 1027-1045		5
133	Perpendicular transport in layered magnetic systems: ab initio study. <i>Computational Materials Science</i> , 2002 , 25, 584-589	3.2	2
132	Interatomic electron transport by semiempirical and ab initio tight-binding approaches. <i>Physical Review B</i> , 2002 , 65,	3.3	83
131	Correlated Doping in Semiconductors: the Role of Donors in III-V Diluted Magnetic Semiconductors. <i>Acta Physica Polonica A</i> , 2002 , 102, 673-678	0.6	12
130	Electron Correlations in Disordered Alloys and at Metallic Surfaces 2002 , 341-354		
129	Ab initio theory of the interlayer exchange coupling in random metallic systems. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 8539-8549	1.8	2

128	Ordering and segregation in XPt (X=V, Cu, and Au) random alloys. <i>Physical Review B</i> , 2001 , 64,	3.3	11
127	Interface resistance of disordered magnetic multilayers. <i>Physical Review B</i> , 2001 , 63,	3.3	96
126	First-principles study of stability and local order in substitutional Ta-W alloys. <i>Physical Review B</i> , 2001 , 64,	3.3	36
125	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,	3.3	392
124	Magnetoresistance in domain walls: effect of randomness. <i>Surface Science</i> , 2001 , 482-485, 1107-1112	1.8	16
123	The influence of defects on electrical transport in magnetic multilayers. <i>Jom</i> , 2000 , 52, 29-32	2.1	
122	Oscillatory curie temperature of two-dimensional ferromagnets. <i>Physical Review Letters</i> , 2000 , 85, 5424-7.4		94
121	Exchange coupling in transition-metal ferromagnets. <i>Physical Review B</i> , 2000 , 62, 5293-5296	3.3	42
120	Ab initio theory of perpendicular magnetotransport in metallic multilayers. <i>Physical Review B</i> , 2000 , 62, 15084-15095	3.3	85
119	The CPP transport in metallic magnetic multilayers. <i>Surface Science</i> , 2000 , 454-456, 918-924	1.8	8
118	Temperature dependence of the interlayer exchange coupling in magnetic multilayers: An ab initio approach. <i>Physical Review B</i> , 1999 , 60, 9588-9595	3.3	19
117	On the orientational dependence of giant magnetoresistance. <i>European Physical Journal B</i> , 1999 , 9, 245-250		12
116	Ab-initio theory of the CPP-magnetoconductance. <i>European Physical Journal D</i> , 1999 , 49, 1583-1589		6
115	Dynamical electron correlations in weakly interacting systems: TB-LMTO approach to metals and random alloys. <i>Physical Review B</i> , 1999 , 60, 15664-15673	3.3	14
114	Theory of surface segregation in metallic alloys: The generalized perturbation method. <i>Computational Materials Science</i> , 1999 , 15, 144-168	3.2	25
113	Disordered Alloys and Their Surfaces: The Coherent Potential Approximation 1999 , 349-378		8
112	Ab Initio Theory of the Interlayer Exchange Coupling 1999 , 313-346		3
111	Dynamical Electron Correlations in Metals: Tb-Lmto and Multiband Hubbard Hamiltonian 1999 , 273-284		3

110	Oscillatory behavior of interface exchange coupling caused by finite caps of variable thickness. <i>Computational Materials Science</i> , 1998 , 10, 188-197	3.2	4
109	Magnetic nature of (100) surfaces of bcc RuV, RhV, and PdV binary alloys. <i>Physical Review B</i> , 1998 , 57, R11065-R11068	3.3	29
108	Interface reflectivities and quantum-well states in magnetic multilayers. <i>Physical Review B</i> , 1998 , 58, 13721-13733	3.3	18
107	The combined effect of temperature and disorder on interlayer exchange coupling in magnetic multilayers. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 78, 571-575		2
106	Theoretical study of ordering in Fe-Al alloys based on a density-functional generalized-perturbation method. <i>Physical Review B</i> , 1997 , 55, 8184-8193	3.3	32
105	Amplitude and Phase of the Oscillatory Exchange Coupling between Fe-Co-Ni Alloy Layers across a Cu Spacer Layer. <i>Physical Review Letters</i> , 1997 , 78, 358-361	7.4	18
104	Adlayer Core-Level Shifts of Random Metal Overlayers on Transition-Metal Substrates. <i>Physical Review Letters</i> , 1997 , 78, 1807-1810	7.4	28
103	Interlayer exchange coupling: Effect of the cap. <i>Physical Review B</i> , 1997 , 56, 8919-8927	3.3	23
102	Effect of Cap-Layers on Interlayer Exchange Coupling. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 475, 575		2
101	Effective Interatomic Interactions VIA The TB-LMTO Method. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 491, 65		2
100	Interlayer exchange coupling: Effect of alloying. <i>Computational Materials Science</i> , 1997 , 8, 87-91	3.2	2
99	Interlayer exchange coupling through ordered and disordered alloy spacers. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 128-133	2.8	15
98	Interlayer Exchange Coupling: Effect of Alloying. <i>Acta Physica Polonica A</i> , 1997 , 91, 15-25	0.6	1
97	Theory of Surface Segregation: Self-Consistent Determination of the Concentration Profile 1997 , 133-138		2
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