Josef Kudrnovsky

List of Publications by Citations

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	First-principles theory of dilute magnetic semiconductors. *Reviews of Modern Physics*, **2010**, 82, 1633-1690	40.5	855
270	Room-temperature antiferromagnetic memory resistor. *Nature Materials*, **2014**, 13, 367-74	27	435
269	Ab initio calculations of exchange interactions, spin-wave stiffness constants, and Curie temperatures of Fe, Co, and Ni. *Physical Review B*, **2001**, 64,	3.3	392
268	Electronic Structure of Disordered Alloys, Surfaces and Interfaces **1997**,		329
267	Magnetic percolation in diluted magnetic semiconductors. *Physical Review Letters*, **2004**, 93, 137202	7.4	250
266	Exchange interactions in III-V and group-IV diluted magnetic semiconductors. *Physical Review B*, **2004**, 69,	3.3	248
265	Electronic structure of random alloys by the linear band-structure methods. *Physical Review B*, **1990** , 41, 7515-7528	3.3	165
264	Electronic and nuclear chemical reactivity. *Journal of Chemical Physics*, **1994**, 101, 8988-8997	3.9	150
263	Magnetism without magnetic impurities in ZrO2 oxide. *Applied Physics Letters*, **2008**, 92, 212503	3.4	124
262	Effects of resonant interface states on tunneling magnetoresistance. *Physical Review B*, **2002**, 65,	3.3	121
261	Electronic structures and magnetic moments of Fe3+ySi1-y and Fe3-xVxSi alloys with DO3-derived structure. *Physical Review B*, **1991**, 43, 5924-5933	3.3	116
260	Exchange interactions and Curie temperatures in Ni2MnSb alloys: First-principles study. *Physical Review B*, **2006**, 73,	3.3	103
259	Exchange interactions, spin waves, and transition temperatures in itinerant magnets. *Philosophical Magazine*, **2006**, 86, 1713-1752	1.6	101
258	Reactivity kernels, the normal modes of chemical reactivity, and the hardness and softness spectra. *Journal of Chemical Physics*, **1995**, 103, 3543-3551	3.9	99
257	Calculating the Curie temperature reliably in diluted III-V ferromagnetic semiconductors. *Europhysics Letters*, **2005**, 69, 812-818	1.6	98
256	Interface resistance of disordered magnetic multilayers. *Physical Review B*, **2001**, 63,	3.3	96
255	Oscillatory curie temperature of two-dimensional ferromagnets. *Physical Review Letters*, **2000**, 85, 5424-7	7.4	94

254	On-site Coulomb interaction and the magnetism of (GaMn)N and (GaMn)As. *Physical Review B*, **2004**, 69,	3.3	91
253	Canonical description of electron states in random alloys. *Physical Review B*, **1987**, 35, 2487-2489	3.3	91
252	Disordered magnetic multilayers: Electron transport within the coherent potential approximation. *Physical Review B*, **2006**, 73,	3.3	90
251	Ab initio theory of perpendicular magnetotransport in metallic multilayers. *Physical Review B*, **2000**, 62, 15084-15095	3.3	85
250	Mn-stabilized zirconia: from imitation diamonds to a new potential high-Tc ferromagnetic spintronics material. *Physical Review Letters*, **2007**, 98, 016101	7.4	84
249	Interatomic electron transport by semiempirical and ab initio tight-binding approaches. *Physical Review B*, **2002**, 65,	3.3	83
248	Itinerant magnetism of disordered Fe-Co and Ni-Cu alloys in two and three dimensions. *Physical Review B*, **1994**, 49, 3352-3362	3.3	77
247	Interlayer magnetic coupling: Effect of interface roughness. *Physical Review B*, **1996**, 53, 5125-5128	3.3	74
246	Dilute moment n-type ferromagnetic semiconductor Li(Zn,Mn)As. *Physical Review Letters*, **2007**, 98, 067202	7.4	69
245	Lattice constant in diluted magnetic semiconductors (Ga,Mn)As. *Physical Review B*, **2003**, 67,	3.3	68
244	On the calculation of the surface Green function by the tight-binding linear muffin-tin orbital method. *Journal of Physics Condensed Matter*, **1989**, 1, 9893-9897	1.8	67
243	Ab initiotheory of exchange interactions and the Curie temperature of bulk Gd. *Journal of Physics Condensed Matter*, **2003**, 15, 2771-2782	1.8	66
242	Magnetic impurities and materials design for semiconductor spintronics. *Physica B: Condensed Matter*, **2003**, 340-342, 863-869	2.8	66
241	Ferromagnetism in diluted magnetic semiconductors: A comparison between ab initio mean-field, RPA, and Monte Carlo treatments. *Physical Review B*, **2003**, 68,	3.3	65
240	Coulomb correlation effects on the electronic structure of III-V diluted magnetic semiconductors. *Physical Review B*, **2004**, 69,	3.3	62
239	Magnetic properties and disorder effects in diluted magnetic semiconductors. *Physical Review B*, **2005**, 72,	3.3	55
238	Application of ab initio and CALPHAD thermodynamics to Mo-Ta-W alloys. *Physical Review B*, **2005**, 71,	3.3	53
237	Potential, core-level, and d band shifts at transition-metal surfaces. *Physical Review B*, **1996**, 54, 8892-8898	3.3	52

236	Interlayer exchange coupling: The effect of substitutional disorder. *Physical Review Letters*, **1996**, 76, 4254-4257	7.4	52
235	First-principles study of surface segregation in Cu-Ni alloys. *Physical Review B*, **1993**, 48, 2704-2710	3.3	52
234	Orbital symmetry, reactivity, and transition metal surface chemistry. *Physical Review Letters*, **1994**, 72, 3222-3225	7.4	52
233	Magnetic anisotropy energy of disordered tetragonal Fe-Co systems from ab initio alloy theory. *Physical Review B*, **2012**, 86,	3.3	51
232	Self-consistent Green's-function method for random overlayers. *Physical Review B*, **1992**, 46, 4222-4228	3.3	51
231	Ab initio theory of galvanomagnetic phenomena in ferromagnetic metals and disordered alloys. *Physical Review B*, **2012**, 86,	3.3	49
230	Effective interatomic interactions in inhomogeneous semi-infinite systems. *Physical Review B*, **1992**, 45, 14328-14334	3.3	49
229	Compensation, interstitial defects, and ferromagnetism in diluted ferromagnetic semiconductors. *Physical Review B*, **2005**, 72,	3.3	48
228	Theory of Oscillatory Exchange Coupling in Fe/(V,Cr) and Fe/(Cr,Mn). *Physical Review Letters*, **1995**, 74, 4063-4066	7.4	47
227	Origins of surface alloy formation: Cu(001)c(2 x 2)-Pd as a case study. *Physical Review Letters*, **1992**, 69, 308-311	7.4	46
226	Physical properties of FeRh alloys: The antiferromagnetic to ferromagnetic transition. *Physical Review B*, **2015**, 91,	3.3	45
225	Electronic, magnetic, and transport properties and magnetic phase transition in quaternary (Cu,Ni)MnSb Heusler alloys. *Physical Review B*, **2008**, 78,	3.3	45
224	Self-consistent Green's-function method for surfaces of random alloys. *Physical Review B*, **1993**, 47, 16525-16531	3.3	44
223	Ferromagnetism of imperfect ultrathin Ru and Rh films on a Ag(001) substrate. *Physical Review Letters*, **1995**, 74, 2551-2554	7.4	43
222	Exchange coupling in transition-metal ferromagnets. *Physical Review B*, **2000**, 62, 5293-5296	3.3	42
221	Magnetic properties of fcc Ni-based transition metal alloys. *Physical Review B*, **2008**, 77,	3.3	41
220	The Auger spectra of metals: effect of electron correlations in partially filled narrow bands. *Journal of Physics F: Metal Physics*, **1984**, 14, 2443-2453		41
219	Anomalous Hall effect in stoichiometric Heusler alloys with native disorder: A first-principles study. *Physical Review B*, **2013**, 88,	3.3	40

218	Spin-disorder resistivity of ferromagnetic metals from first principles: The disordered-local-moment approach. *Physical Review B*, **2012**, 86,	3.3	39
217	First-principles theoretical studies of half-metallic ferromagnetism in CrTe. *Physical Review B*, **2010**, 82,	3.3	39
216	Mn-doped Ga(As,P) and (Al,Ga)As ferromagnetic semiconductors: Electronic structure calculations. *Physical Review B*, **2007**, 75,	3.3	39
215	Magnetic coupling of interfaces: A surface-Green's-function approach. *Physical Review B*, **1994**, 50, 16105-16108	3.3	39
214	First-principles study of the electronic structure and exchange interactions in bcc europium. *Physical Review B*, **2003**, 68,	3.3	38
213	Comparative study of the electronic structure of ordered, partially ordered, and disordered phases of the Cu3Au alloy. *Physical Review B*, **1991**, 43, 4613-4621	3.3	37
212	Approximate treatment of charge selfconsistency and lattice relaxations in random transition metal alloys: Application to CuPd system. *Solid State Communications*, **1989**, 70, 577-580	1.6	37
211	Can correlated substitution enhance the Curie temperature in diluted magnetic semiconductors?. *Applied Physics Letters*, **2004**, 85, 4941-4943	3.4	36
210	First-principles study of stability and local order in substitutional Ta-W alloys. *Physical Review B*, **2001**, 64,	3.3	36
209	Electronic structure of semiinfinite crystals with substitutional disorder in surface layer. *Surface Science*, **1977**, 64, 411-424	1.8	34
208	Microscopic analysis of the valence band and impurity band theories of (Ga,Mn)As. *Physical Review Letters*, **2010**, 105, 227202	7.4	33
207	Electronic structure and magnetic properties of random alloys: Fully relativistic spin-polarized linear muffin-tin-orbital method. *Physical Review B*, **1996**, 54, 1610-1621	3.3	33
206	Substrate-induced antiferromagnetism of a Fe monolayer on the Ir(001) surface. *Physical Review B*, **2009**, 80,	3.3	32
205	Theoretical study of ordering in Fe-Al alloys based on a density-functional generalized-perturbation method. *Physical Review B*, **1997**, 55, 8184-8193	3.3	32
204	Curie temperatures of fcc and bcc nickel and permalloy: Supercell and Green function methods. *Physical Review B*, **2008**, 77,	3.3	32
203	Interlayer magnetic coupling: The torque method. *Physical Review B*, **1996**, 53, 15036-15044	3.3	32
202	Electronic properties of surfaces of disordered alloys. *Physical Review B*, **1991**, 44, 6410-6415	3.3	32
201	Fermi sea term in the relativistic linear muffin-tin-orbital transport theory for random alloys. *Physical Review B*, **2014**, 89,	3.3	30

200	Relativistic electronic structure of random alloys and their surfaces by linear band-structure methods. *Physical Review B*, **1994**, 50, 7903-7914	3.3	30
199	Stability and ordering properties of fcc alloys based on Rh, Ir, Pd, and Pt. *Physical Review B*, **2006**, 74,	3.3	29
198	Magnetic nature of (100) surfaces of bcc RuV, RhV, and PdV binary alloys. *Physical Review B*, **1998**, 57, R11065-R11068	3.3	29
197	Interlayer magnetic coupling: Effect of alloying in the spacer. *Physical Review B*, **1996**, 54, R3738-R3741	3.3	29
196	Adlayer Core-Level Shifts of Random Metal Overlayers on Transition-Metal Substrates. *Physical Review Letters*, **1997**, 78, 1807-1810	7.4	28
195	Disorder effects in diluted ferromagnetic semiconductors. *Physical Review B*, **2003**, 68,	3.3	26
194	Electronic structure of fluorite-type compounds and mixed crystals. *Physical Review B*, **1991**, 43, 12597-12606	3.3	26
193	Magnetism of mixed quaternary Heusler alloys: (Ni,T)2MnSn (T=Cu,Pd) as a case study. *Physical Review B*, **2010**, 82,	3.3	25
192	Exchange interactions and Curie temperatures in Cr-based alloys in the zinc blende structure: Volume- and composition-dependence from first-principles calculations. *Physical Review B*, **2010**, 81,	3.3	25
191	Theory of surface segregation in metallic alloys: The generalized perturbation method. *Computational Materials Science*, **1999**, 15, 144-168	3.2	25
190	Magnetism-induced ordering in two and three dimensions. *Physical Review B*, **1994**, 50, 9603-9606	3.3	25
189	Electronic structure of substitutionally disordered metal alloys: Single-site approximation for canonical d bands. *Physical Review B*, **1985**, 31, 6424-6434	3.3	25
188	Nonlocal torque operators in ab initio theory of the Gilbert damping in random ferromagnetic alloys. *Physical Review B*, **2015**, 92,	3.3	24
187	Pressure dependence of Curie temperature and resistivity in complex Heusler alloys. *Physical Review B*, **2011**, 84,	3.3	24
186	Relativistic LMTO method for systems of light elements. *Philosophical Magazine*, **2008**, 88, 2787-2798	1.6	24
185	Ab Initio Study of Curie Temperatures of Diluted Magnetic Semiconductors. *Journal of Superconductivity and Novel Magnetism*, **2003**, 16, 119-122		24
184	Dynamical correlations in multiorbital Hubbard models: fluctuation exchange approximations. *Journal of Physics Condensed Matter*, **2005**, 17, 61-74	1.8	24
183	Electron transport in magnetic multilayers: Effect of disorder. *Physical Review B*, **2002**, 65,	3.3	24

182	Interlayer exchange coupling: Effect of the cap. *Physical Review B*, **1997**, 56, 8919-8927	3.3	23
181	Importance of complex band structure and resonant states for tunneling. *Journal of Magnetism and Magnetic Materials*, **2002**, 240, 108-113	2.8	23
180	Electronic structure of random semiconductor alloys by the tight-binding linear muffin-tin orbital method. *Physical Review B*, **1989**, 40, 10029-10032	3.3	23
179	Effect of disorder on the electronic structure of palladium. *Physical Review B*, **1990**, 41, 7988-7998	3.3	22
178	Magnetism without magnetic impurities in oxides ZrO2 and TiO2. *Philosophical Magazine*, **2008**, 88, 2755-2764	1.5	21
177	Half-metallicity and magnetism of GeTe doped with transition metals V, Cr, and Mn: A theoretical study from the viewpoint of application in spintronics. *Journal of Applied Physics*, **2012**, 112, 053902	2.5	20
176	Electronic structure of ordered and disordered CuxPd1-x alloys via the linear-muffin-tin-orbitals method. *Physical Review B*, **1992**, 45, 8272-8282	3.3	20
175	Transport properties of iron at Earth's core conditions: The effect of spin disorder. *Physical Review B*, **2017**, 96,	3.3	19
174	Temperature dependence of the interlayer exchange coupling in magnetic multilayers: An ab initio approach. *Physical Review B*, **1999**, 60, 9588-9595	3.3	19
173	Ab initio theory of surface segregation: Self-consistent determination of the concentration profile. *Physical Review B*, **1996**, 54, 8202-8212	3.3	19
172	Amplitude and Phase of the Oscillatory Exchange Coupling between Fe-Co-Ni Alloy Layers across a Cu Spacer Layer. *Physical Review Letters*, **1997**, 78, 358-361	7.4	18
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170	Frustration and long-range behavior of the exchange interactions in AuFe spin-glass alloys. *Physical Review B*, **2004**, 70,	3.3	18
169	Interface reflectivities and quantum-well states in magnetic multilayers. *Physical Review B*, **1998**, 58, 13721-13733	3.3	18
168	Ab initio theory of exchange interactions in itinerant magnets. *Physica Status Solidi (B): Basic Research*, **2003**, 236, 318-324	1.3	17
167	Theory of the Auger Spectra of Narrow-Band Metals with Impurities. *Physica Status Solidi (B): Basic Research*, **1981**, 108, 683-692	1.3	17
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165	Magnetoresistance in domain walls: effect of randomness. *Surface Science*, **2001**, 482-485, 1107-1112	1.8	16

164	Electronic structure of disordered overlayers on metal substrates. *Physical Review B*, **1991**, 44, 4068-4071	3.3	16
163	Interlayer exchange coupling through ordered and disordered alloy spacers. *Journal of Magnetism and Magnetic Materials*, **1997**, 165, 128-133	2.8	15
162	Electronic structure of ordered and disordered Pd3Fe. *Journal of Magnetism and Magnetic Materials* , **1990**, 87, 97-105	2.8	15
161	Effects of atomic and magnetic order on electronic transport in Pd-rich Pd-Fe alloys. *Physical Review B*, **2011**, 84,	3.3	14
160	Dynamical electron correlations in weakly interacting systems: TB-LMTO approach to metals and random alloys. *Physical Review B*, **1999**, 60, 15664-15673	3.3	14
159	Unified approach to electronic, thermodynamical, and transport properties of Fe3Si and Fe3Al alloys. *Physical Review B*, **2014**, 90,	3.3	13
158	Physical properties of the tetragonal CuMnAs: A first-principles study. *Physical Review B*, **2017**, 96,	3.3	13
157	Noncollinear magnetic ordering in compressed FePd3 ordered alloy: A first principles study. *Physical Review B*, **2012**, 86,	3.3	13
156	Electronic and transport properties of the Mn-doped topological insulator Bi2Te3: A first-principles study. *Physical Review B*, **2016**, 93,	3.3	12
155	First-principles study of spin-disorder resistivity of heavy rare-earth metals: Gd□m series. *Physical Review B*, **2012**, 85,	3.3	12
154	Electronic structure and transport properties of CrAs□GaAs□CrAs trilayers from first principles theory. *Physical Review B*, **2004**, 70,	3.3	12
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152	Phase diagram of the Cu-Pd surface alloy: A first-principles calculation. *Physical Review B*, **1995**, 51, 17910-17915	3.3	12
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149	Correlated Doping in Semiconductors: the Role of Donors in III-V Diluted Magnetic Semiconductors. *Acta Physica Polonica A*, **2002**, 102, 673-678	0.6	12
148	Effective magnetic Hamiltonians from □st principles. *EPJ Web of Conferences*, **2013**, 40, 11001	0.3	11
147	Origin of the negative giant magnetoresistance effect in Co1□Crx/Cu/Co (111) trilayers. *Physical Review B*, **2004**, 69,	3.3	11

146	Ordering and segregation in XPt (X=V, Cu, and Au) random alloys. *Physical Review B*, **2001**, 64,	3.3	11
145	New type of oscillatory exchange coupling induced by ordering in the magnetic layers. *Physical Review Letters*, **1996**, 76, 3834-3837	7.4	11
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140	Relation of Curie temperature and conductivity: (Ga,Mn)As alloy as a case study. *Applied Physics Letters*, **2007**, 91, 102509	3.4	9
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138	Ab-initio calculations of the electronic and atomic structure of solids and their surfaces. *Computer Physics Communications*, **1996**, 97, 111-123	4.2	9
137	The Electronic Structure of Palladium-Noble Metal Alloys. *Physica Status Solidi (B): Basic Research*, **1988**, 148, K23-K27	1.3	9
136	Theory of auger spectra from disordered alloys the effect of electron correlations in filled narrow bands. *Physica Status Solidi (B): Basic Research*, **1982**, 114, 627-635	1.3	9
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134	Electronic and transport properties of a new quaternary Heusler alloy CoMnFeSi. *Physical Review B*, **2018**, 97,	3.3	8
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131	Pressure effect on magnetic moments in ordered Ni3Mn and disordered Ni100⊠ Mn x alloys: ab initio calculation and experiment. *High Pressure Research*, **2011**, 31, 116-120	1.6	8
130	Chemical ordering and composition fluctuations at the (001) surface of the Fe64Ni36 Invar alloy. *Physical Review B*, **2006**, 74,	3.3	8
129	The CPP transport in metallic magnetic multilayers. *Surface Science*, **2000**, 454-456, 918-924	1.8	8

128	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	1.8	8
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126	Disordered Alloys and Their Surfaces: The Coherent Potential Approximation **1999**, 349-378		8
125	Half-metallicity, magnetism and electrical resistivity of Sn1−xMnxTe alloys in rock salt and zinc blende structures. *Journal of Magnetism and Magnetic Materials*, **2015**, 375, 15-25	2.8	7
124	Magnetism, half-metallicity and electrical transport properties of V- and Cr-doped semiconductor SnTe: A theoretical study. *Journal of Applied Physics*, **2013**, 114, 213704	2.5	7
123	Charge-transfer effects in disordered alloys: the test case of Al - Li alloys. *Journal of Physics Condensed Matter*, **1996**, 8, 7883-7898	1.8	7
122	Phase stability and ordering in diluted magnetic III-V semiconductors. *Philosophical Magazine*, **2004**, 84, 1889-1905	1.6	7
121	Interference, resonances, and bound states at the Pd(001) and Rh(001) surfaces. *Physical Review B*, **1994**, 50, 11142-11145	3.3	7
120	Electronic theory of surface segregation in transition metal alloys. *Surface Science*, **1994**, 307-309, 821-825	2.8	7
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113	Ab-initio theory of the CPP-magnetoconductance. *European Physical Journal D*, **1999**, 49, 1583-1589		6
112	Ordering tendencies in fe-al alloys in magnetic and non-magnetic models. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1996**, 37, 237-241	3.1	6
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105	Defect-induced magnetic structure of CuMnSb. *Physical Review B*, **2016**, 94,	3.3	6
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99	The electronic structure of bcc-based random solid solutions of transition metals. *European Physical Journal B*, **1989**, 73, 489-493	1.2	5
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97	The Theory of Auger Spectra from Alloys. The Effect of Electron Correlations in Partially Filled Narrow Bands. *Physica Status Solidi (B): Basic Research*, **1985**, 127, 611-619	1.3	5
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95	Tetragonal CuMnAs alloy: Role of defects. *Journal of Magnetism and Magnetic Materials*, **2019**, 474, 467-471	2.8	5
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93	Magnetotransport in Pd-Rich PdFe Alloys. *Journal of Superconductivity and Novel Magnetism*, **2013**, 26, 1749-1752	1.5	4

92	Structure and physical properties of quaternary Heusler alloy NiMnCuSb. *Journal of Magnetism and Magnetic Materials*, **2017**, 444, 338-343	2.8	4
91	Effect of partial order on galvanomagnetic transport properties of ferromagnetic PdFe and PdCo alloys. *Physical Review B*, **2015**, 92,	3.3	4
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87	Magnetic order of FeMn alloy on the W(0 0 1) surface. *Surface Science*, **2007**, 601, 4261-4264	1.8	4
86	. *European Physical Journal D*, **2002**, 52, 215-218		4
85	Dependence of the electronic structure on local atomic order in ternary Cu2NiZn alloys. *Physical Review B*, **1991**, 43, 14409-14413	3.3	4
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