AndrÃ©s Vega

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6294809/publications.pdf

Version: 2024-02-01

172	2,943	172207	243296
papers	citations	29 h-index	44 g-index

174	174	174	1972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure and magnetism of cobalt clusters. Physical Review B, 2003, 67, .	1.1	128
2	Systematicab initiostudy of the electronic and magnetic properties of different pure and mixed iron systems. Physical Review B, 2000, 61, 13639-13646.	1.1	98
3	Structure and magnetism of small rhodium clusters. Physical Review B, 2002, 66, .	1.1	96
4	Calculatedsp-electron andspd-hybridization effects on the magnetic properties of smallFeNclusters. Physical Review B, 1993, 47, 4742-4746.	1.1	89
5	Magnetic moments of Ni clusters. Physical Review B, 1998, 57, 12469-12475.	1.1	73
6	Spin polarization at the Fe/V interface. Physical Review B, 1993, 48, 985-992.	1.1	69
7	Ti-decorated zigzag graphene nanoribbons for hydrogen storage. A van der Waals-corrected density-functional study. International Journal of Hydrogen Energy, 2015, 40, 4960-4968.	3.8	65
8	Structural and magnetic properties of X12Y (X, Y=Fe, Co, Ni, Ru, Rh, Pd, and Pt) nanoalloys. Journal of Chemical Physics, 2010, 132, .	1.2	61
9	Comparativeab initiostudy of the structural, electronic, and magnetic trends of isoelectronic late<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>transition metal clusters. Physical Review B, 2008, 78, .	1.1	59
10	Antiferromagnetic interlayer coupling in Fe/V and Fe/Cr. Journal of Applied Physics, 1991, 69, 4544-4546.	1.1	56
11	Study of the Structural and Electronic Properties of Rh_N and Ru_N Clusters (N < 20) within the Density Functional Theory. Journal of Physical Chemistry A, 2009, 113, 13483-13491.	1.1	53
12	Theoretical investigation of free-standing CoPd nanoclusters as a function of cluster size and stoichiometry in the Pd-rich phase: Geometry, chemical order, magnetism, and metallic behavior. Physical Review B, 2006, 74, .	1.1	52
13	Geometrical effects on the magnetism of small Ni clusters. Physical Review B, 1997, 55, 13279-13282.	1.1	48
14	Optical properties of large band gap Î²-In2S3â^'3xO3x compounds obtained by physical vapour deposition. Optical Materials, 2005, 27, 647-653.	1.7	48
15	Average magnetization and local magnetic moments ofFeNclusters(N<230). Physical Review B, 1999, 60, 434-439.	1.1	43
16	Induced spin polarization inV:FenVmsuperlattices and thin V films on Fe substrates. Physical Review B, 1999, 59, 14510-14515.	1.1	40
17	Stability, magnetic behavior, and chemical order of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mrow> Physical Review B, 2009, 79, .	1.1	40
18	Possibility of various magnetic configurations in the Cr (Fe) monolayer deposited on vicinal surfaces of Fe (Cr). Physical Review B, 1995, 51, 11546-11554.	1.1	39

#	ARTICLE	IF	CITATIONS
19	Topological antiferromagnetism at Cr surfaces and interfaces. Physical Review B, 1994, 49, 12797-12800.	1.1	36
20	Li-decorated Pmmn8 phase of borophene for hydrogen storage. A van der Waals corrected density-functional theory study. International Journal of Hydrogen Energy, 2019, 44, 1021-1033.	3.8	35
21	All-electron and pseudopotential study of the spin-polarization of the V(001) surface: LDA versus GGA. Physical Review B, 2001, 63, .	1.1	34
22	Magnetic and electronic properties of substitutionalFeNcluster impurities in Cr: Transition from antiferromagnetic to ferromagneticFeN. Physical Review B, 1994, 50, 3899-3906.	1.1	32
23	Noncollinear magnetism of thin Cr films deposited on a stepped Fe (001) surface. Physical Review B, 2003, 68, .	1.1	32
24	What will freestanding borophene nanoribbons look like? An analysis of their possible structures, magnetism and transport properties. Physical Chemistry Chemical Physics, 2017, 19, 1054-1061.	1.3	32
25	Noncollinear Fe spin structure in (Sm-Co)/Fe exchange-spring bilayers: Layer-resolved<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>57</mml:mn></mml:msup></mml:math>Fe MÃ¶ssbauer spectroscopy and electronic structure calculations. Physical Review B, 2012, 85, .	1.1	31
26	Electronic quasiparticle structure of ferromagnetic bcc iron. European Physical Journal B, 1995, 96, 357-372.	0.6	30
27	Magnetic-Order Transition in Thin Fe Overlayers on Cr: Role of the Interfacial Roughness. Europhysics Letters, 1995, 31, 561-566.	0.7	29
28	Magnetism of Co nanoparticles supported on the Cu(111) substrate: Size and environment dependence. Physical Review B, 1997, 55, 445-451.	1.1	29
29	Stability, structural, and magnetic phase diagrams of ternary ferromagnetic 3d-transition-metal clusters with five and six atoms. Journal of Chemical Physics, 2011, 134, 054101.	1.2	29
30	Antiferromagnetic interlayer coupling in Fe/c-SiFe/Fe sandwiches and multilayers. Physical Review B, 2001, 65, .	1.1	28
31	Hydrogen Interaction in Pdâ€“Pt Alloy Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 126-133.	1.5	28
32	Origin of dead magnetic Fe overlayers on V(110). Physical Review B, 2001, 64, .	1.1	27
33	Magnetic properties of Pd atomic clusters from different theoretical approaches. European Physical Journal D, 2007, 44, 125-131.	0.6	26
34	C(2 Ã— 2) ferrimagnetic order versus P(1 Ã— 1) ferromagnetic order in V, Cr, Mn monolayers on Fe(001). Thin Solid Films, 1996, 275, 103-105.	0.8	25
35	Magnetic behavior of monoatomic Co wires on Pd(110). Physical Review B, 2000, 61, 6848-6853.	1.1	25
36	Ab Initio Study of the Adsorption of NO on the Rh6+Cluster. Journal of Physical Chemistry A, 2011, 115, 8350-8360.	1.1	25

#	ARTICLE	IF	CITATIONS
37	Al enhances the H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>storage capacity of graphene at nanoribbon borders but not at central sites: A study using nonlocal van der Waals density functionals. Physical Review B, 2012, 85, .	1.1	25
38	Structure, fragmentation patterns, and magnetic properties of small cobalt oxide clusters. Physical Chemistry Chemical Physics, 2014, 16, 21732-21741.	1.3	25
39	Self-consistent theory of overlap interactions in the tight-binding method. Physical Review B, 1993, 47, 12995-12998.	1.1	24
40	Structural and magnetic properties of CoRh nanoparticles. Physical Review B, 2004, 70, .	1.1	24
41	A density-functional study of the structures, binding energies and magnetic moments of the clusters Mo_N(N= 2â€“13), Mo₁₂Fe, Mo₁₂Co and Mo₁₂Ni. Nanotechnology, 2008, 19, 145704.	1.3	24
42	Spin configuration in a frustrated ferromagnetic/antiferromagnetic thin-film system. Nanotechnology, 2007, 18, 235702.	1.3	23
43	Structural and zero-point vibrational effects on the electric dipole moments and static dipole polarizabilities of sodium clusters. Physical Review B, 2011, 84, .	1.1	23
44	Insulating or Metallic: Coexistence of Different Electronic Phases in Zinc Clusters. Angewandte Chemie - International Edition, 2015, 54, 2111-2115.	7.2	23
45	Molecular hydrogen uptake by zigzag graphene nanoribbons doped with early 3d transition-metal atoms. International Journal of Hydrogen Energy, 2013, 38, 8872-8880.	3.8	22
46	Tight-binding study of the ionization of iron clusters. Physical Review B, 1996, 54, 3003-3006.	1.1	21
47	A density-functional study of the possibility of noncollinear magnetism in small Mn clusters using SIESTA and the generalized gradient approximation to exchange and correlation. Journal of Chemical Physics, 2008, 128, 114315.	1.2	21
48	Finiteâ€temperature ferromagnetism of f.c.c. cobalt. Physica Status Solidi (B): Basic Research, 1996, 193, 177-187.	0.7	20
49	Tailoring the spin density waves in Fe/Cr multilayers by selective inclusion of Sn, V and Mn. Surface Science, 2009, 603, 117-124.	0.8	20
50	Magnetic magic numbers are not magic for clusters embedded in noble metals. Physical Review B, 2002, 66, .	1.1	19
51	Density functional study of ternary Fe x Co y Ni z (xÂ+ÂyÂ+ÂzÂ=Â7) clusters. Theoretical Chemistry Accounts, 2013, 132, 1.	0.5	19
52	Nonmetal-metal transition in Ni clusters. Solid State Communications, 1997, 104, 635-639.	0.9	18
53	Competition between two- and three-dimensional growth of Co clusters deposited on Cu(001): Influence on the magnetic properties. Physical Review B, 2001, 63, .	1.1	18
54	Metallic behavior of Pd atomic clusters. Nanotechnology, 2007, 18, 365706.	1.3	18

#	ARTICLE	IF	CITATIONS
55	Magnetic properties of semi-infinite systems of Cr(Fe) on a Fe(Cr) (001) surface. Surface Science, 1991, 251-252, 51-54.	0.8	17
56	Magnetism of Vicinal Surfaces of Vanadium. Europhysics Letters, 1994, 27, 165-170.	0.7	17
57	Magnetism in small Pd clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 332, 107-114.	0.9	17
58	A new magnetic superatom: Cr@Zn₁₇. Physical Chemistry Chemical Physics, 2015, 17, 28033-28043.	1.3	17
59	Structure and magnetic properties of small Fe clusters supported on the Ni(001) surface. Physical Review B, 2005, 71, .	1.1	16
60	Ab initio study of lithium decoration of popgraphene and hydrogen storage capacity of the hybrid nanostructure. International Journal of Hydrogen Energy, 2021, 46, 15724-15737.	3.8	16
61	Stepped Fe(001) surface magnetism. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1687-1688.	1.0	15
62	Optical conductivity in substoichiometric titanium carbides. Physical Review B, 1998, 58, 3507-3510.	1.1	15
63	Collinear versus noncollinear magnetic order in Pd atomic clusters:Ab initiocalculations. Physical Review B, 2006, 74, .	1.1	15
64	Antiferromagnetic-like coupling in the cationic iron cluster of thirteen atoms. Physical Chemistry Chemical Physics, 2013, 15, 14458.	1.3	15
65	Are zinc clusters really amorphous? A detailed protocol for locating global minimum structures of clusters. Nanoscale, 2018, 10, 19162-19181.	2.8	15
66	Hydrogen storage capacity of Li-decorated borophene and pristine graphene slit pores: A combined ab initio and quantum-thermodynamic study. Applied Surface Science, 2021, 562, 150019.	3.1	15
67	Magnetic moments of. European Physical Journal D, 1999, 6, 235.	0.6	15
68	The magnetization reversal process in spin spring magnets. Nanotechnology, 2008, 19, 315401.	1.3	14
69	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Mo</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn> Structural transition and electronic structure of interest in spintronics. Physical Review B, 2009, 79, .	1.1	14
70	Structural, Electronic, and Magnetic Properties Of Co_nCu_m Nanoalloys (m + n = 12) from First Principles Calculations. Journal of Physical Chemistry A, 2012, 116, 9353-9360.	1.1	14
71	Antiferromagnetic versus ferromagnetic orders in V, Cr and Mn overlayers on Fe(103). Journal of Magnetism and Magnetic Materials, 1995, 148, 177-178.	1.0	13
72	Ab initiooptical conductivity in LaMO3(M=Tiâ€“Cu). Physical Review B, 1996, 54, 11271-11275.	1.1	13

#	ARTICLE	IF	CITATIONS
73	Tight-binding and evolutionary search approach for nanoscale CoRh alloys. Physica B: Condensed Matter, 2005, 370, 200-214.	1.3	13
74	Twining effects in the magnetism of small Pd clusters. Solid State Communications, 2005, 133, 573-578.	0.9	13
75	Engineering the magnetic structure of Fe clusters by Mn alloying. Nanotechnology, 2008, 19, 245701.	1.3	13
76	New structural and electronic properties of (TiO2)10. Journal of Chemical Physics, 2016, 144, 234312.	1.2	13
77	Spin-polarized transport in hydrogen-passivated graphene and silicene nanoribbons with magnetic transition-metal substituents. Physical Chemistry Chemical Physics, 2016, 18, 22606-22616.	1.3	13
78	Unusual effect of interatomic interactions on magnetism:â€‚Rh adatoms on the Ag(001) surface. Physical Review B, 1998, 57, R14020-R14023.	1.1	12
79	Structural and magnetic properties ofFenclusters at the Al (001) surface: Early transition from paramagnetic to ferromagneticFen. Physical Review B, 2004, 69, .	1.1	12
80	Multiple collinear magnetic arrangements in thin Mn films supported on Fe(001). Antiferromagnetic versus ferromagnetic behavior. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 337, 469-472.	0.9	12
81	Impact of dimerization and stretching on the transport properties of molybdenum atomic wires. Nanotechnology, 2010, 21, 095205.	1.3	12
82	Hydrogen insertion in Pd core/Pt shell cubo-octahedral nanoparticles. Physical Review B, 2011, 83, .	1.1	12
83	A new family of star-like icosahedral structures for small cobalt clusters. Chemical Physics, 2013, 415, 106-111.	0.9	12
84	Structure, fragmentation patterns, and magnetic properties of small nickel oxide clusters. Physical Chemistry Chemical Physics, 2017, 19, 3366-3383.	1.3	12
85	Density functional study of the structural, electronic, and magnetic properties of Mo n and Mo n S (n) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	12
86	Density functional study of the optical response of FeN and CoN nitrides with zinc-blend and rock-salt structures. Journal of Physics and Chemistry of Solids, 2017, 100, 148-153.	1.9	12
87	Magnetic behaviour of selected geometries of Pd clusters: icosahedral versus fcc structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 330, 126-130.	0.9	11
88	Magnetic structure of cobalt clusters. Journal of Alloys and Compounds, 2004, 369, 93-96.	2.8	11
89	Properties Design: Prediction and Experimental Validation of the Luminescence Properties of a New Eu^{II}â€Based Phosphor. Chemistry - A European Journal, 2018, 24, 16276-16281.	1.7	11
90	Density Functional Study of Charge Transfer at the Graphene/Ionic Liquid Interface. Journal of Physical Chemistry C, 2018, 122, 15070-15077.	1.5	11

#	ARTICLE	IF	CITATIONS
91	Vanadium: From cluster to semiâ€infinite crystal. Journal of Applied Physics, 1993, 73, 6207-6209.	1.1	10
92	Magnetic moments of Ni monolayers and small ground-state Ni clusters at the Al (001) surface. Physical Review B, 2000, 62, 11104-11108.	1.1	10
93	Magnetic Cooperative Effects in Small Niâ€“Ru Clusters. Journal of Physical Chemistry A, 2011, 115, 13950-13955.	1.1	10
94	Relation between structural patterns and magnetism in small iron oxide clusters: reentrance of the magnetic moment at high oxidation ratios. Physical Chemistry Chemical Physics, 2021, 23, 246-272.	1.3	10
95	Theoretical study of the gap evolution of In2X3 (X=O, S, Se, Te) with lattice compression. Optical Materials, 2001, 17, 497-499.	1.7	9
96	Electronic structure calculations of low-dimensional transition metals. Handbook of Magnetic Materials, 2003, 15, 199-288.	0.6	9
97	Density Functional Study of the Structures and Electronic Properties of Nitrogen-Doped Ni_n Clusters, n = 1â€“10. Journal of Physical Chemistry A, 2011, 115, 13997-14005.	1.1	9
98	On the electric dipole moments of small sodium clusters from different theoretical approaches. Chemical Physics, 2012, 399, 252-257.	0.9	9
99	Calculation of electronic properties of the (100) surface of Fe including overlap interactions. Surface Science, 1991, 251-252, 55-58.	0.8	8
100	Interplay between structure and magnetism in hydride iron-vanadium systems. Physical Review B, 2008, 78, .	1.1	8
101	Possibility of collinear magnetic order in frustrated free-standing<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2008, 77, .	1.1	8
102	Structure and electronic properties of molybdenum monatomic wires encapsulated in carbon nanotubes. Journal of Physics Condensed Matter, 2011, 23, 265302.	0.7	8
103	Theoretical study of AlnV+ clusters and their interaction with Ar. Journal of Chemical Physics, 2013, 139, 214305.	1.2	8
104	Spinâ€“orbit effects on the structural, homotop, and magnetic configurations of small pure and Fe-doped Pt clusters. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	8
105	Borophene vs. graphene interfaces: Tuning the electric double layer in ionic liquids. Journal of Molecular Liquids, 2020, 303, 112647.	2.3	8
106	Defects and Magnetic Properties: The Cr/Fe(001) Interfaces. Materials Research Society Symposia Proceedings, 1995, 384, 247.	0.1	7
107	Spin polarization at Fe/Cr interfaces. Journal of Applied Physics, 1997, 81, 4347-4349.	1.1	7
108	Is the vanadium(001) surface magnetic? Pseudopotential toward all-electron calculations. International Journal of Quantum Chemistry, 2003, 91, 230-233.	1.0	7

#	ARTICLE	IF	CITATIONS
109	Noncollinear magnetism caused by intermixing at ferromagnetic/antiferromagnetic interfaces. Physical Review B, 2006, 74, .	1.1	7
110	A density-functional study of the structures and electronic properties of neutral, anionic, and endohedrally doped InxPx clusters. Journal of Chemical Physics, 2009, 131, 074504.	1.2	7
111	Structural and Electronic Properties of TM_n[(BN)₃H₆]_m Complexes with TM = Co (n, m = 1â€“3) and with TM = Fe, Ni, Ru, Rh, Pd (n = m = 1â€“3). Journal of Physical Chemistry A, 2014, 118, 2976-2983.	1.1	7
112	Zn₁₇ Superatom Cage Doped with 3d Transition-Metal (TM) Impurities (TM = Sc, Ti, V, Cr, Mn,) Tj ETQq0 0 0 rgBT /Overloc	1.5	7
113	Onset of C(2Ã—2) ferrimagnetic order in Cr islands deposited on Fe(001) as a function of island size. Journal of Applied Physics, 1996, 79, 5834.	1.1	6
114	Spin-polarization of thin Mn films on Fe(107). Journal of Magnetism and Magnetic Materials, 1996, 156, 199-201.	1.0	6
115	Interlayer exchange coupling in Fe/SiFe/Fe sandwiches. Surface Science, 2001, 482-485, 994-997.	0.8	6
116	Magnetic behavior of Pd nanoclusters. Physica B: Condensed Matter, 2004, 354, 271-277.	1.3	6
117	Electronic structure and transport properties of monatomic Fe chains in a vacuum and anchored to a graphene nanoribbon. Journal of Physics Condensed Matter, 2012, 24, 455304.	0.7	6
118	Structural, Electronic, and Magnetic Properties of Iron Disulfide Fe_nS₂^{0/Â±} (n = 1â€“6) Clusters. Journal of Physical Chemistry A, 2017, 121, 3768-3780.	1.1	6
119	Nanoscale reactivity of Zn x Mg 20â^'x investigated by structural and electronic indicators. Corrosion Science, 2017, 124, 35-45.	3.0	6
120	Magnetic properties of Co islands grown on Cu(111). Surface Science, 1996, 352-354, 902-906.	0.8	5
121	Magnetism in Rh clusters under hydrostatic deformations. European Physical Journal D, 2003, 23, 343-349.	0.6	5
122	Electronic structure investigation of the exchange-spring behavior during the magnetic reversal process. Physical Review B, 2008, 77, .	1.1	5
123	Ab initio study of hydrogen insertion in ultrathin transition metal doped V films: Structural and electronic properties. Physical Review B, 2010, 81, .	1.1	5
124	Charge and spin transport properties of Mo<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow	1.1	5
125	Spin-dependent electronic conduction along zigzag graphene nanoribbons bearing adsorbed Ni and Fe nanostructures. Journal of Physics Condensed Matter, 2014, 26, 165302.	0.7	5
126	Structural, Vibrational, and Magnetic Properties of FeCoO_n^{0/+} (n = 1â€“6) Bimetallic Oxide Clusters. Journal of Physical Chemistry C, 2015, 119, 11200-11209.	1.5	5

#	ARTICLE	IF	CITATIONS
127	Structural properties, magnetism and reactivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si21.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">Ni</mml:mi></mml:mrow><mml:mrow><mml:mn>13</mml:mn><mml:mo>-</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">Fe</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:mrow></mml:math> nanoalloys. Journal of Magnetism and Magnetic Materials, 2021, 534, 167636.	1.0	5
128	Why are Zn-rich Znâ€“Mg nanoalloys optimal protective coatings against corrosion? A first-principles study of the initial stages of the oxidation process. Physical Chemistry Chemical Physics, 2021, 23, 24685-24698.	1.3	5
129	Geometrical and chemical environment effects on the magnetism of stepped surfaces of V and V over Fe. European Physical Journal D, 1993, 43, 1045-1050.	0.4	4
130	Antiferromagnetic versus ferromagnetic coupling in Fe/Cr(107) and Cr/Fe(107). Journal of Applied Physics, 1994, 76, 6989-6991.	1.1	4
131	Electronic structure and optical response ofL-CePd5. Physical Review B, 1995, 51, 4823-4829.	1.1	4
132	Magnetic moments in Ni clusters with deformations. Solid State Communications, 2001, 117, 477-482.	0.9	4
133	Effects of the structural deformations on the magnetism of Rh6 and Rh13 clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 473-479.	0.9	4
134	Magnetism in segregated bimetallic CoRh nanoclusters. Physica B: Condensed Matter, 2004, 354, 278-281.	1.3	4
135	Theoretical study of the charge transfer in supported transition metal microclusters. European Physical Journal D, 2005, 34, 51-54.	0.6	4
136	Improvement of hydrogen uptake in iron and vanadium matrices by doping with 3d atomic impurities. Journal of Alloys and Compounds, 2012, 545, 19-27.	2.8	4
137	Impact of S doping on the structural, electronic and magnetic properties of Cr n (n = 2 â^' 6) clusters. European Physical Journal D, 2017, 71, 1.	0.6	4
138	Predicting photon cascade emission in Pr3+doped fluorides. Physical Chemistry Chemical Physics, 2017, 19, 15503-15511.	1.3	4
139	Structural and Electronic Rearrangements in Fe₂S₂, Fe₃S₄, and Fe₄S₄ Atomic Clusters under the Attack of NO, CO, and O₂. Journal of Physical Chemistry A, 2019, 123, 10919-10929.	1.1	4
140	Incorporating charge transfer effects into a metallic empirical potential for accurate structure determination in (ZnMg)N nanoalloys. Nanoscale, 2020, 12, 20432-20448.	2.8	4
141	A neural network potential for searching the atomic structures of pure and mixed nanoparticles. Application to ZnMg nanoalloys with an eye on their anticorrosive properties. Acta Materialia, 2021, 220, 117341.	3.8	4
142	Magnetic properties of very thin V films adsorbed on Fe substrate. Journal of Magnetism and Magnetic Materials, 1993, 121, 177-179.	1.0	3
143	Optical absorption and interband transitions inCePd7. Physical Review B, 1996, 53, 6881-6884.	1.1	3
144	Temperature-dependent magnetic behavior of ideal and stepped Fe surfaces. Physical Review B, 2001, 63, .	1.1	3

#	ARTICLE	IF	CITATIONS
145	The structure of an Fe monolayer on the Ni (111) surface. A density-functional study using the generalized gradient approximation. Solid State Communications, 2006, 137, 129-131.	0.9	3
146	Magnetic coupling in the cluster Fe2Mn4 : A fully unconstrained density-functional study. Solid State Communications, 2006, 140, 480-482.	0.9	3
147	Response of Mn overlayers on Fe to external magnetic fields: Electronic structure calculations. Surface Science, 2009, 603, 2537-2543.	0.8	3
148	Spin currents and filtering behavior in zigzag graphene nanoribbons with adsorbed molybdenum chains. Journal of Physics Condensed Matter, 2015, 27, 135301.	0.7	3
149	Small Ni clusters at the (110) and (111) surfaces of Al: structures and lack of magnetic moment. Surface Science, 2001, 482-485, 976-980.	0.8	2
150	Morphology and magnetism of Fe monolayers and small Fenclusters (n= 2â€“19) supported on the Ni(111) surface. Nanotechnology, 2007, 18, 055701.	1.3	2
151	Proximity effects on the spin density waves in X/Cr(001) multilayers (X=Sn, V, and Mn). Thin Solid Films, 2011, 519, 2037-2042.	0.8	2
152	Magnetization reversal process at atomic scale in systems with itinerant electrons. Journal of Physics Condensed Matter, 2012, 24, 176002.	0.7	2
153	Structural, magnetic, and vibrational properties of stoichiometric clusters of <scp>C</scp>r<scp>N</scp>. International Journal of Quantum Chemistry, 2015, 115, 523-528.	1.0	2
154	Structure, fragmentation patterns, and electronic properties of small indium oxide clusters. Theoretical Chemistry Accounts, 2018, 137, 1.	0.5	2
155	Tuning the Magnetic Moment of Small Late 3d-Transition-Metal Oxide Clusters by Selectively Mixing the Transition-Metal Constituents. Nanomaterials, 2020, 10, 1814.	1.9	2
156	Stepped Fe(100) and V/Fe(100) Magnetism. Materials Research Society Symposia Proceedings, 1991, 231, 323.	0.1	1
157	Magnetic properties of small 3-d transition metal clusters: Role of the sp-electrons and spd-hybridization. Scripta Materialia, 1993, 3, 359-363.	0.5	1
158	Calculation of the magnetic properties of FeN clusters embedded in 3d transition-metal matrices. Computational Materials Science, 1994, 2, 463-467.	1.4	1
159	Electronic, magnetic, and optical properties of. Journal of Physics Condensed Matter, 1997, 9, 6267-6277.	0.7	1
160	Competition between CoCr hybridization and low-coordination effects in the magnetism of a Co monolayer deposited on Cr substrates. Journal of Magnetism and Magnetic Materials, 1997, 165, 265-267.	1.0	1
161	Deformation Effects in the Magnetic Moments of Ni Clusters. , 2001, , 77-85.		1
162	Magnetism of the Fe9 nanocluster supported on Ni(001). Computational Materials Science, 2006, 35, 307-310.	1.4	1

#	ARTICLE	IF	CITATIONS
163	Response of magnetically frustrated nanostructures to external magnetic fields: Stepped Cr/Fe interfaces. Physical Review B, 2010, 81, .	1.1	1
164	Interfacial effects on the magnetic profiles and interlayer exchange coupling of Co/CoSi multilayers. Thin Solid Films, 2011, 520, 302-306.	0.8	1
165	Titanium embedded cage structure formation in AlnTi+ clusters and their interaction with Ar. Journal of Chemical Physics, 2014, 140, 174304.	1.2	1
166	Unveiling the effects of doping small nickel clusters with a sulfur impurity. Theoretical Chemistry Accounts, 2018, 137, 1.	0.5	1
167	Theoretical study of induced V polarization at the interface with Fe in Fe n V m superlattices. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 469-473.	0.6	0
168	Magnetic interactions between small Ni clusters. Solid State Communications, 2000, 116, 309-314.	0.9	0
169	Temperature-dependent magnetic behavior of the Fe (100) surface. Computational Materials Science, 2000, 17, 473-476.	1.4	0
170	Temperature dependent magnetic behaviour of thin Fe(001) films with 1.5, 2, 2.5 and 3 monolayers. Surface Science, 2005, 582, 209-214.	0.8	0
171	NON-COLLINEAR MAGNETISM IN THE Fe3 MICROCLUSTER: FREE-STANDING VS SUPPORTED ENVIRONMENTS. International Journal of Modern Physics B, 2005, 19, 2532-2537.	1.0	0
172	C(2 Ã— 2) ferrimagnetic order versus p(1 Ã— 1) ferromagnetic order in V, Cr, Mn monolayers on Fe(001). , 1996, , 103-105.		0