RESEARCH & PUBLICATIONS

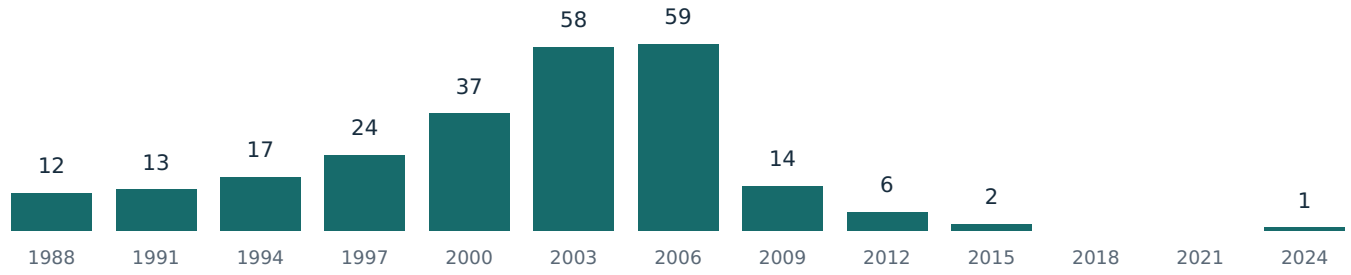
Patrick Bruno

A publication record at a glance

243	18,299	66
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Tight-Binding Approach to the Orbital Magnetic Moment and Magnetocrystalline Anisotropy of Transition-Metal Monolayers — 1,371

1989 Physical Review B

Oscillatory Coupling Between Ferromagnetic Layers Separated by a Nonmagnetic Metal Spacer — 1,097

1991 Physical Review Letters

Theory of Interlayer Magnetic Coupling — 858

1995 Physical Review B

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2024

01 X-Ray Science Using the ESRF—Extremely Brilliant Source — 5 citations
European Physical Journal Plus · 139, 1-11
https://exaly.com/article/194019641

2016

02 Structure and Magnetism of Cobalt at High Pressure and Low Temperature — 25 citations
Physical Review B · 94, 024429
https://exaly.com/article/64637976

03 Jacques Friedel and the Physics of Metals and Alloys — 25 citations
Comptes Rendus Physique · 17, 276-290
https://exaly.com/article/65534809

2013

04 Impossibility of Spontaneously Rotating Time Crystals: A No-Go Theorem — 271 citations
Physical Review Letters · 111, 070402
https://exaly.com/article/54913890

05 Comment on “Quantum Time Crystals” — 125 citations
Physical Review Letters · 110, 118901
https://exaly.com/article/55795924

06 Comment on “Space-Time Crystals of Trapped Ions” — 49 citations
Physical Review Letters · 111, 029301
https://exaly.com/article/56590692

07 Pressure-Induced Structural and Magnetic Phase Transitions in Ordered and Disordered Equiatomic FeCo — 9 citations
Physical Review B · 88, 184412
https://exaly.com/article/56663799

2012

08 Noncollinear Magnetic Ordering in Compressed FePd Ordered Alloy: A First Principles Study — 21 citations
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09 Quantum Geometric Phase in Majorana’s Stellar Representation: Mapping Onto a Many-Body Aharonov-Bohm Phase — 56 citations
Physical Review Letters · 108, 240402
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2011

10 X-Ray Magnetic Circular Dichroism Measurements in Ni Up to 200 GPa: Resistant Ferromagnetism
72 citations
Physical Review Letters · 107, 237202
https://exaly.com/article/50116957

11 Pulsed Laser Deposition of Silicon Nanostructures
4 citations
Materials Research Society Symposia Proceedings · 1322, 141-146
https://exaly.com/article/50141252

12 Graphene in a Periodically Alternating Magnetic Field: An Unusual Quantization of the Anomalous Hall Effect
19 citations
Physical Review B · 84, 085427
https://exaly.com/article/50190679

2010

13 The Energies and Life Times of Magnons in Bulk Iron and One-Monolayer Fe Film
13 citations
Journal of Magnetism and Magnetic Materials · 322, 1396-1398
https://exaly.com/article/48300212

14 Magnetic Anisotropy Due to the Casimir Effect
2 citations
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15 Magnetic Anisotropy and Magnetization Dynamics of Individual Atoms and Clusters of Fe and Co on Pt(111)
156 citations
Physical Review Letters · 102, 257203
https://exaly.com/article/45381359

16 Switching a Single Spin on Metal Surfaces by a STM Tip: Ab Initio Studies
65 citations
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17 Spin Structure of an Atomic Protrusion: Probing Single Atoms on Cobalt Nanoislands
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Physical Review B · 79, 113401
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18 Probing Buried Magnetic Nanostructures by Spin-Resolved Local Density of States at the Surface: A Density Functional Study
4 citations
Physical Review B · 79, 245417
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19 Two-Dimensional Electron Gas in a Periodic Magnetic Field
Journal of Magnetism and Magnetic Materials · 321, 906-908
https://exaly.com/article/46487218
2 citations

20 Exchange Coupling in Transition Metal Monoxides: Electronic Structure Calculations
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123 citations

21 Effect of Strain Relaxations on Heteroepitaxial Metal-on-Metal Island Nucleation and Superlattice Formation: Fe on Cu(111)
Physical Review B · 79, 195411
https://exaly.com/article/46955707
33 citations

22 Melting of Two-Dimensional Adatom Superlattices Stabilized by Long-Range Electronic Interactions
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45 citations

23 Energies and Lifetimes of Magnons in Complex Ferromagnets: A First-Principle Study of Heusler Alloys
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92 citations

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24 Bilayer Growth of Nanoscale Co Islands on Cu(111)
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68 citations

25 Interplay Between Magnetism and Structure in Atomic-Size Pd Contacts: Ab Initio Studies
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15 citations

26 Magnetic Properties of Fcc Ni-Based Transition Metal Alloys
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https://exaly.com/article/43859940
57 citations

27 Role of Conduction Electrons in Mediating Exchange Interactions in Mn-Based Heusler Alloys
Physical Review B · 77, 064417
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212 citations

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28 **Curie Temperatures of Fcc and Bcc Nickel and Permalloy: Supercell and Green's Function Methods**
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29 **Magnetic Phase Transition in Two-Phase Multiferroics Predicted From First Principles**
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30 **Spin-Orbit Split Two-Dimensional Electron Gas With Tunable Rashba and Fermi Energy**
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https://exaly.com/article/43920706

31 **Anisotropic Magnetoresistance in Fe/MgO/Fe Tunnel Junctions**
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Journal of Physics Condensed Matter · 20, 155208
https://exaly.com/article/43953486

32 **Spin Wave Dispersion on the Nanometer Scale**
49 citations
Physical Review Letters · 101, 167201
https://exaly.com/article/44041591

33 **Inelastic Electron-Magnon Interaction and Spin Transfer Torque**
55 citations
Physical Review B
https://exaly.com/article/44321316

34 **Atomic-Scale Self-Organization of Fe Nanostripes on Stepped Cu(111) Surfaces: Molecular Dynamics and Kinetic Monte Carlo Simulations**
28 citations
Physical Review B · 77, 085430
https://exaly.com/article/44360455

35 **Anomalous Hall Effect and Berry Phase in Two-Dimensional Magnetic Structures**
5 citations
Journal of Physics: Conference Series · 104, 012018
https://exaly.com/article/44540650

36 **Self-Aligning Atomic Strings in Surface-Supported Biomolecular Gratings**
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https://exaly.com/article/44756793

37 **Multiple-Scattering Theoretical Approach to Scanning Tunneling Microscopy**
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38 Kondo Effect in Single Atom Contacts: The Importance of the Atomic Geometry
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60 citations

39 Chiral Two-Dimensional Electron Gas in a Periodic Magnetic Field: Persistent Current and Quantized Anomalous Hall Effect
Physical Review B · 78, 155330
https://exaly.com/article/44766714
26 citations

40 Direct Evidence for the Effect of Quantum Confinement of Surface-State Electrons on Atomic Diffusion
Physical Review Letters · 101, 226601
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47 citations

41 Manipulating Magnetism and Conductance of an Adatom-Molecule Junction on a Metal Surface: An Ab Initio Study
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https://exaly.com/article/44814920
12 citations

42 Tailoring Exchange Interactions in Engineered Nanostructures: An Ab Initio Study
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41 citations

43 Vibrations of Small Cobalt Clusters on Low-Index Surfaces of Copper: Tight-Binding Simulations
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44 Noncollinear Surface Spin Density by Surface Reconstruction in the Alloy NiMn
Physical Review Letters · 100, 237203
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45 Comment on “Weak Localization in Ferromagnetic (Ga,Mn)As Nanostructures”
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11 citations

46 Effect of Exchange Interaction on the Spin-Polarized Bound States on Metal Surfaces: Ab Initio Study
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https://exaly.com/article/44827297
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47 Spin Currents in Magnetic Nanostructures
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48 Effect of Quantum Confinement of Surface Electrons on Adatom–Adatom Interactions
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49 Quantization of the Electron Wave Vector in Nanostructures: Counting k-States
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https://exaly.com/article/41537532

50 Electronic Confinement on Stepped Cu(111) Surfaces: Ab Initio Study
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52 Mn-Stabilized Zirconia: From Imitation Diamonds to a New Potential High-?? Ferromagnetic Spintronics Material
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53 Vacuum Fluctuations and Spin Current in Mesoscopic Structures With Collinear Magnetic Order
2 citations
Physical Review B · 75, 201301
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54 Surface Electronic States in Co Nanoclusters on Au(111): Scanning Tunneling Spectroscopy Measurements and Ab Initio Calculations
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55 Self-Organized Long-Period Adatom Strings on Stepped Metal Surfaces: Scanning Tunneling Microscopy, Ab Initio Calculations, and Kinetic Monte Carlo Simulations
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56 Giant Spin Splitting Through Surface Alloying
820 citations
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57 Spin-Orbit Splitting in an Anisotropic Two-Dimensional Electron Gas
97 citations
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58 Structure and Magnetic Properties of Co Chains on a Stepped Cu Surface — 30 citations
Journal of Physics Condensed Matter · 19, 446001
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59 Indirect Exchange Interaction Between Two Local Spins Embedded in an Aharonov–Bohm Ring — 5 citations
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60 Die Entdeckung des Riesen-Magnetowiderstandes. Physik-Nobelpreis 2007 — 3 citations
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61 Exchange Interaction Between Single Magnetic Adatoms — 199 citations
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62 Interplay of Electronic, Magnetic and Structural Properties of Surface-Supported Clusters — 2 citations
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63 Anomalous Hall Effect — 0 citations
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64 Exchange Interactions and Néel Temperature of a Fe Monolayer on W(001): A First-Principles Study — 16 citations
Physical Review B · 73, 014430
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65 Computing Conductances of Tunnel Junctions by the Korringa–Kohn–Rostoker Method:Formulation and Test of a Green Function Approach — 15 citations
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66 Adatom Self-Organization Induced by Quantum Confinement of Surface Electrons — 47 citations
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67 Long-Range Electronic Interactions Between Adatoms on Transition Metal Surfaces — 14 citations
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68 **Intrinsic Mechanism of Anomalous Hall Effect in a Twodimensional Magnetic System With Impurities**
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69 **Effect of Antiferromagnetic Layers on the Spin-Dependent Transport in Magnetic Tunnel Junctions**
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70 **Effect of the Long-Range Adsorbate Interactions on the Atomic Self-Assembly on Metal Surfaces**
Surface Science · 600, 58-61
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21 citations

71 **Exchange Interactions, Spin Waves, and Transition Temperatures in Itinerant Magnets**
Philosophical Magazine · 86, 1713-1752
https://exaly.com/article/41083549
144 citations

72 **Tusche et al. Reply:**
Physical Review Letters · 96, 119602
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11 citations

73 **Inelastic Scattering Effects and the Hall Resistance in a Four-Probe Ring**
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74 **Self-Organization of Ce Adatoms on Ag(111): A Kinetic Monte Carlo Study**
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29 citations

75 **Exchange Interactions in ZnMeO (Me=Mn,Fe,Co,Ni): Calculations Using the Frozen-Magnon Technique**
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36 citations

76 **Anomalous Hall Effect Due to Spin Chirality in the Kagomé Lattice**
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77 **Atomic Relaxations and Magnetic States in a Single-Atom Tunneling Junction**
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78 **Berry Phase, Topology, and Degeneracies in Quantum Nanomagnets** — 39 citations
Physical Review Letters · 96, 117208
https://exaly.com/article/41229088

79 **Controlling the Spin Polarization of Nanostructures on Magnetic Substrates** — 43 citations
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80 **Electron Confinement in Hexagonal Vacancy Islands: Theory and Experiment** — 36 citations
Physical Review B · 74, 195436
https://exaly.com/article/41232435

81 **Magnetic Phase Diagram of the Semi-Heusler Alloys From First Principles** — 23 citations
Applied Physics Letters · 89, 222508
https://exaly.com/article/41236235

82 **Topological Hall Effect Studied in Simple Models** — 33 citations
Physical Review B · 74, 045327
https://exaly.com/article/41237048

2005

83 **Ab-Initio Study of Diluted Magnetic Semiconductors** — 1 citations
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84 **Magnetic Exchange Coupling and Curie Temperature of Ni(1+x)MnSb(x=0,0.25,0.5,0.75,1) From First Principles** — 13 citations
Journal of Magnetism and Magnetic Materials · 290, 385-387
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85 **Stability of Ferromagnetism in the Half-Metallic Pnictides and Similar Compounds: Afirst-Principles Study** — 87 citations
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86 **Twisted Exchange Interaction Between Localized Spins in Presence of Rashba Spin-Orbit Coupling** — 2 citations
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87 **Berry Phase of Magnons in Textured Ferromagnets** — 71 citations
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88 **Ab Initio Study of Mirages and Magnetic Interactions in Quantum Corrals** — 61 citations
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89 **Pressure Dependence of the Curie Temperature in Ni_2MnSn Heusler Alloy: A First-Principles Study** — 145 citations
Physical Review B · 71, 214412
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90 **Above-Room-Temperature Ferromagnetism in Half-Metallic Heusler Compounds NiCrP, NiCrSe, NiCrTe, and NiVAs: A First-Principles Study** — 49 citations
Journal of Applied Physics · 98, 063523
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91 **Large Spin Effects in Coulomb Blockade of Fe/MgO/Fe Tunnel Junctions** — 6 citations
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92 **End Electronic States in Cu Chains on Cu(111): Ab Initio Calculations** — 35 citations
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93 **Equilibrium Spin Currents and the Magnetoelectric Effect in Magnetic Nanostructures** — 60 citations
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94 **Green's Function Technique for Studying Electron Flow in Two-Dimensional Mesoscopic Samples** — 93 citations
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95 **Effect of the Mn Clustering in (GaMn)N on the Magnetic Transition Temperature** — 26 citations
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96 **Ab Initio Approach for Atomic Relaxation in Supported Magnetic Clusters** — 33 citations
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https://exaly.com/article/38966768

97 **First-Principles Study of Exchange Interactions and Curie Temperatures of Half-Metallic Ferrimagnetic fullHeusler Alloys Mn_2V Z (Z = Al,Ge)** — 129 citations
Journal of Physics Condensed Matter · 17, 995
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98 First-Principles Study of the Magnetism of Diluted Magnetic Semiconductors
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99 Exchange Interactions and Temperature Dependence of Magnetization in Half-Metallic Heusler Alloys
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100 Anomalous Hall Effect in a Two-Dimensional Electron Gas With Spin-Orbit Interaction
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101 Antiferromagnetic Mn on Fe(001) Studied by Spin-Polarized Scanning Tunneling Microscopy
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102 Oxygen-Induced Symmetrization and Structural Coherency in Fe/MgO/Fe(001) Magnetic Tunnel Junctions
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103 RKKY Interaction Between Two Quantum Dots Embedded in an Aharonov-Bohm Ring
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105 Exchange Interactions and Critical Temperatures in Diluted Magnetic Semiconductors
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106 The Influence of the Clustering of Mn Impurities on the Magnetic Properties Of(GaMn)As
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109 Indirect Exchange Interaction Between Two Quantum Dots in an Aharonov-Bohm Ring
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112 Magnetism and Structure on the Atomic Scale: Small Cobalt Clusters in Cu(001)
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113 Structure and Quantum Effects in Atomic-Sized Contacts
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118 Curie Temperatures and Exchange Interactions in Diluted Group-IV Magnetic Semiconductors
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124 Ab Initio Theory of Exchange Interactions in Itinerant Magnets
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125 Exchange Interaction Parameters and Adiabatic Spin-Wave Spectra of Ferromagnets: A “Renormalized Magnetic Force Theorem”
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126 Ab Initio Study of Interaction Between Magnetic Adatoms on Metal Surfaces
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133 Quantum Interference and Long-Range Adsorbate-Adsorbate Interactions
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138 **Spin Polarized Surface States of Cobalt Nanoislands on Cu(111)** — 0 citations
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139 **One-Photon Two-Electron Transitions at Surfaces** — 0 citations
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140 **Spin Transport in Two-Dimensional Electron Gas** — 0 citations
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141 **Electron Transport in Magnetic Multilayers: Effect of Disorder** — 28 citations
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143 **Long-Range Magnetic Interaction Due to the Casimir Effect** — 16 citations
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146 **Double Photoemission Studies at Metal Surfaces** — 1 citations
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