Farkhad G Aliev

List of Publications by Year
in descending order

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143 papers	2,735 citations	218677 26 h-index	206112 48 g-index
145 all docs	145 docs citations	145 times ranked	2271 citing authors

#	Article	IF	Citations
1	Gap at the Fermi level in the intermetallic vacancy system RBiSn(R=Ti,Zr,Hf). European Physical Journal B, 1989, 75, 167-171.	1.5	229
2	Narrow band in the intermetallic compounds MNiSn (M=Ti, Zr, Hf). European Physical Journal B, 1990, 80, 353-357.	1.5	220
3	Layer-By-Layer Assembly of Core-Shell Magnetite Nanoparticles: Effect of Silica Coating on Interparticle Interactions and Magnetic Properties. Advanced Materials, 1999, 11, 1006-1010.	21.0	197
4	Advances in Magnetics Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetics, 2022, 58, 1-72.	2.1	179
5	Stratified Assemblies of Magnetite Nanoparticles and Montmorillonite Prepared by the Layer-by-Layer Assembly. Langmuir, 2000, 16, 3941-3949.	3.5	170
6	Electric and magnetic properties of the Kondo-lattice compound CeCu2Si2. Journal of Low Temperature Physics, 1984, 57, 61-93.	1.4	94
7	Gap at Fermi level in some new d- and f-electron intermetallic compounds. Physica B: Condensed Matter, 1991, 171, 199-205.	2.7	89
8	Spin waves in circular soft magnetic dots at the crossover between vortex and single domain state. Physical Review B, 2009, 79, .	3.2	76
9	Superconductivity in CeCu2Si2. Solid State Communications, 1983, 45, 215-218.	1.9	68
10	Shot Noise in Magnetic Tunnel Junctions: Evidence for Sequential Tunneling. Physical Review Letters, 2006, 97, 266602.	7.8	51
11	Spin excitation frequencies in magnetostatically coupled arrays of vortex state circular Permalloy dots. Applied Physics Letters, 2010, 97, 132501.	3.3	50
12	High bias voltage effect on spin-dependent conductivity and shot noise in carbon-doped Fe(001)âˆ•MgO(001)âˆ•Fe(001) magnetic tunnel junctions. Applied Physics Letters, 2007, 91, 132504.	3.3	49
13	Very low 1âˆ•f noise at room temperature in fully epitaxial Feâˆ•MgOâˆ•Fe magnetic tunnel junctions. Applied Physics Letters, 2007, 91, .	3.3	41
14	The appearance of the many-body resonance at the Fermi level in Kondo-lattices. Solid State Communications, 1983, 47, 693-697.	1.9	40
15	Point-contact spectroscopy onURu2Si2. Physical Review B, 1997, 55, 14318-14322.	3.2	40
16	Low-frequency noise and tunneling magnetoresistance in Fe(110)âˆ•MgO(111)âˆ•Fe(110) epitaxial magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 042501.	3.3	36
17	Transport and magnetic properties of intermetallic systems RNiM (R = U, Ce, Er, Ho, Tm, Yb, Sc, Ti, Zr, Hf;) Tj ETQq1 1 0.784314 rgBT	2.3	33
18	Gap formation in CeNiSn at low temperatures. Physica B: Condensed Matter, 1990, 163, 358-360.	2.7	32

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19	Anisotropy of the upper critical field near Tc and the properties of URu2Si2 and UBe13 in the normal state. Journal of Low Temperature Physics, 1991, 85, 359-376.	1.4	32
20	Interfacial Spin-Orbit Coupling: A Platform for Superconducting Spintronics. Physical Review Applied, 2020, 13, .	3.8	32
21	Microwave-stimulated superconductivity due to presence of vortices. Scientific Reports, 2015, 5, 9187.	3.3	31
22	Localized domain-wall excitations in patterned magnetic dots probed by broadband ferromagnetic resonance. Physical Review B, 2011, 84, .	3.2	30
23	Non-Linear Susceptibility in U 0.9 Th 0.1 Be 13 : Evidence of a Transition from a Paramagnetic to a Quadrupolar Kondo Ground State. Europhysics Letters, 1995, 32, 765-770.	2.0	29
24	Periodic Enhancement of the Electron-Electron Interactions and the Magnetoresistance in Magnetic Co/(Cr/Ag)/Co Multilayers. Physical Review Letters, 1997, 78, 134-137.	7.8	29
25	Precise probing spin wave mode frequencies in the vortex state of circular magnetic dots. Applied Physics Letters, 2010, 96, .	3.3	29
26	Strongly suppressed 1/f noise and enhanced magnetoresistance in epitaxial Feâ€“V/MgO/Fe magnetic tunnel junctions. Applied Physics Letters, 2010, 96, .	3.3	26
27	Transient lateral photovoltaic effect in patterned metal-oxide-semiconductor films. Applied Physics Letters, 2014, 104, .	3.3	25
28	Anomalous ground state of U0.9Th0.1Be13: Temperature dependence of the resistivity and magnetoresistance. Solid State Communications, 1994, 91, 775-778.	1.9	23
29	Superconductivity-induced change in magnetic anisotropy in epitaxial ferromagnet-superconductor hybrids with spin-orbit interaction. Physical Review B, 2020, 102, .	3.2	23
30	Magnetization reversal assisted by half antivortex states in nanostructured circular cobalt disks. Applied Physics Letters, 2014, 105, .	3.3	22
31	Information processing in patterned magnetic nanostructures with edge spin waves. Scientific Reports, 2017, 7, 5597.	3.3	21
32	Controlling Shot Noise in Double-Barrier Magnetic Tunnel Junctions. Physical Review Letters, 2012, 109, 066601.	7.8	20
33	Energy gap of the ground state of CeNiSn caused by local and long-range magnetic-moment interactions. Physical Review B, 1993, 47, 769-772.	3.2	19
34	Quantum Phase Transition in Fe/Cr Multilayers Tuned by a Magnetic Field. Physical Review Letters, 1998, 81, 5884-5887.	7.8	19
35	Impact of electron-electron interactions induced by disorder at interfaces on spin-dependent tunneling in Co-Fe-B/MgO/Co-Fe-B magnetic tunnel junctions. Physical Review B, 2010, 82, .	3.2	19
36	Tunneling in Double Barrier Junctions with â€œHot Spotsâ€• Physical Review Letters, 2010, 105, 047207.	7.8	19

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37	Flux avalanches triggered by microwave depinning of magnetic vortices in Pb superconducting films. Physical Review B, 2011, 84, .	3.2	19
38	Vibrational properties of MeNiSn (Me = Ti, Zr, Hf). Solid State Communications, 1990, 74, 829-832.	1.9	18
39	Broadband probing magnetization dynamics of the coupled vortex state permalloy layers in nanopillars. Applied Physics Letters, 2012, 100, .	3.3	18
40	Low frequency noise due to magnetic inhomogeneities in submicron FeCoB/MgO/FeCoB magnetic tunnel junctions. Applied Physics Letters, 2011, 99, 062511.	3.3	17
41	Thermally Driven Inhibition of Superconducting Vortex Avalanches. Physical Review Applied, 2017, 8, .	3.8	17
42	Anomalous ground state in U0.9Th0.1Be13. Physica B: Condensed Matter, 1995, 206-207, 454-456.	2.7	16
43	Reduction of Microwave Loss by Mobile Fluxons in Grooved Nb Films. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800223.	2.4	16
44	Plain superconducting films as magnetic field tunable two-dimensional rectifiers. Applied Physics Letters, 2006, 88, 062517.	3.3	15
45	The quadrupolar Kondo ground state in. Journal of Physics Condensed Matter, 1996, 8, 9807-9814.	1.8	14
46	Crossover from non-Fermi-liquid to Fermi-liquid behavior in the magnetoresistivity of U0.9Th0.1Be13. Physical Review B, 1997, 56, 11169-11173.	3.2	14
47	Impurity Spin Magnetization of Thin Fe Doped Au Films. Physical Review Letters, 2000, 85, 2593-2596.	7.8	14
48	Anomalous low-frequency noise in synthetic antiferromagnets: Possible evidence of current-induced domain-wall motion. Physical Review B, 2009, 79, .	3.2	14
49	Interface and Temperature Dependent Magnetic Properties in Permalloy Thin Films and Tunnel Junction Structures. Journal of Nanoscience and Nanotechnology, 2011, 11, 7653-7664.	0.9	14
50	Local symmetry lowering in the cubic intermetallics YbPdBi and YbNiSb. Journal of Physics Condensed Matter, 1995, 7, 5665-5680.	1.8	13
51	Magnetic fluctuations in the heavy fermion YbPdSb. Physica B: Condensed Matter, 1997, 230-232, 266-268.	2.7	13
52	Broadband ferromagnetic resonance linewidth measurement of magnetic tunnel junction multilayers. Applied Physics Letters, 2009, 94, 012506.	3.3	13
53	A Superconducting Magnet: Tb 2 Mo 3 Si 4. Europhysics Letters, 1994, 25, 143-148.	2.0	12
54	Anomalous low-temperature resistivity of metallic trilayers: Possible evidence for electron scattering on symmetrical two-level systems. Physical Review B, 1998, 58, 3625-3628.	3.2	12

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55	Observation of propagating edge spin waves modes. Journal of Applied Physics, 2013, 114, .	2.5	12
56	Thermal conductivity of the Bi 2 (Ca 0.5 Sr 0.5) 3 Cu 2 O x , Tl 2 Ba 2 Ca 2 Cu 3 O x ceramics and ErBa 2 Cu 3 O x single crystal. Physica C: Superconductivity and Its Applications, 1989, 162-164, 572-573.	1.2	11
57	Fully epitaxial Fe(110)/MgO(111)/Fe(110) magnetic tunnel junctions: Growth, transport, and spin filtering properties. Applied Physics Letters, 2008, 93, 083512.	3.3	11
58	Temperature dependent dynamic and static magnetic response in magnetic tunnel junctions with Permalloy layers. Applied Physics Letters, 2008, 93, .	3.3	11
59	Hall effect and the upper critical field in UBe 13. Journal of Magnetism and Magnetic Materials, 1987, 63-64, 458-460.	2.3	10
60	Superpoissonian shot noise in organic magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	3.3	10
61	Anisotropy of the upper critical field in the magnetic heavyâ€fermion superconductor URu2Si2. Journal of Applied Physics, 1988, 63, 3414-3416.	2.5	9
62	Low frequency noise in Co/Al2O3$langle$$delta(Fe)angle$/Ni80Fe20 magnetic tunnel junctions. Journal Physics D: Applied Physics, 2002, 35, 1761-1764.	2.8	9
63	Electron interaction with domain walls in antiferromagnetically coupled multilayers. Europhysics Letters, 2003, 63, 888-894.	2.0	9
64	Shot noise in magnetic double-barrier tunnel junctions. Physical Review B, 2013, 87, .	3.2	9
65	Band structure of topological insulators from noise measurements in tunnel junctions. Applied Physics Letters, 2015, 107, .	3.3	9
66	Moving flux quanta cool superconductors by a microwave breath. Communications Physics, 2020, 3, .	5.3	9
67	Time-dependent Ginzburg-Landau simulations of superconducting vortices in three dimensions. Low Temperature Physics, 2020, 46, 316-324.	0.6	9
68	Superconductivity assisted change of the perpendicular magnetic anisotropy in V/MgO/Fe junctions. Scientific Reports, 2021, 11, 19041.	3.3	9
69	Electron localization in the disordered conductors TiNiSn and HfNiSn observed by Raman and infrared spectroscopies. Solid State Communications, 1994, 91, 779-784.	1.9	8
70	On the Hall effect in the two-channel Kondo ground state. Europhysics Letters, 1996, 34, 605-610.	2.0	8
71	Broadband Magnetic Response of Periodic Arrays of FeNi Dots. IEEE Transactions on Magnetics, 2008, 44, 3063-3066.	2.1	8
72	Magnetization reversal in sub-100â€‰nm magnetic tunnel junctions with ultrathin MgO barrier biased along the hard axis. Applied Physics Letters, 2013, 102, .	3.3	8

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73	Band-Edge Noise Spectroscopy of a Magnetic Tunnel Junction. Physical Review Letters, 2014, 112, .	7.8	8
74	Dynamics of spiral spin waves in magnetic nanopatches: Influence of thickness and shape. Physical Review B, 2019, 100, .	3.2	8
75	The superconducting Kondo lattice: CeCu2Si2. European Physical Journal B, 1985, 58, 213-217.	1.5	7
76	Heavy fermions in kondo lattices. Journal of the Less Common Metals, 1987, 127, 321-327.	0.8	7
77	The superconducting Kondo lattice: CeCu 2 Si 2. Journal of Magnetism and Magnetic Materials, 1987, 63-64, 472-474.	2.3	7
78	Thermal conductivity of TmBa2Cu3Ox and Bi2Sr2CaCu2Ox single crystals in the vicinity of the superconducting transition. Solid State Communications, 1992, 82, 241-244.	1.9	7
79	Low Frequency Magnetic Response in Antiferromagnetically CoupledFe/CrMultilayers. Physical Review Letters, 2002, 88, 187201.	7.8	7
80	Symmetry broken spin reorientation transition in epitaxial MgO/Fe/MgO layers with competing anisotropies. Scientific Reports, 2018, 8, 9463.	3.3	7
81	Thermal expansion of the disordered conductorsMNiSn (M=Ti,Zr,Hf). Physical Review B, 1994, 50, 17881-17885.	3.2	6
82	Photodoping-Driven Crossover in the Low-Frequency Noise of MoS2 Transistors. Physical Review Applied, 2017, 7, .	3.8	6
83	Gapping of the electronic spectrum induced by magnetic instability in CeNiSn. Physica B: Condensed Matter, 1994, 199-200, 433-434.	2.7	5
84	Magnetic state dependent transient lateral photovoltaic effect in patterned ferromagnetic metal-oxide-semiconductor films. AIP Advances, 2015, 5, .	1.3	5
85	Hall effect in Kondo lattices in the coherent regime. Solid State Communications, 1987, 61, 161-165.	1.9	4
86	Antiferromagnetism of superconducting Tb2Mo3Si4. Physica B: Condensed Matter, 1994, 194-196, 171-172.	2.7	4
87	Unusual dc electric fields induced by a high frequency alternating current in superconducting Nb films under a perpendicular magnetic field. New Journal of Physics, 2009, 11, 063033.	2.9	4
88	Shot noise in magnetic tunneling structures with two-level quantum dots. Physical Review B, 2016, 94, .	3.2	4
89	Hall effect and magnetotransport of CeAl3 under pressure. Journal of Magnetism and Magnetic Materials, 1988, 76-77, 272-274.	2.3	3
90	Thermal expansion and infrared optical properties of heavy-fermion CeNiSn. Physica B: Condensed Matter, 1991, 171, 381-383.	2.7	3

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91	Evolution of calorimetric, magnetic and transport properties of UxTh1â^'xBe13 (0.64 â‰¤ x â‰¤ 1) solid solutions. Physica B: Condensed Matter, 1996, 223-224, 464-466.	2.7	3
92	Electron interaction with domain walls in Fe/Cr multilayers at low temperatures. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 745-746.	2.3	3
93	Generation of DC electric fields due to vortex rectification in superconducting films. Physica C: Superconductivity and Its Applications, 2006, 437-438, 1-6.	1.2	3
94	Detection of spin torque magnetization dynamics through low frequency noise. Applied Physics Letters, 2015, 107, 052401.	3.3	3
95	Edge spin wave transmission through a vertex domain wall in triangular dots. SN Applied Sciences, 2022, 4, .	2.9	3
96	COMPETITION BETWEEN GAPPING OF THE ELECTRONIC SPECTRUM AND MAGNETIC ORDER IN CeNiSn. International Journal of Modern Physics B, 1993, 07, 26-29.	2.0	2
97	ANOMALOUS LATTICE PROPERTIES OF ZrNiSn CAUSED BY ELECTRON LOCALIZATION. International Journal of Modern Physics B, 1993, 07, 383-386.	2.0	2
98	Localization induced transformation of the lattice modes of MNiSn (M=Zr, Hf, Ti) compounds.. Physica B: Condensed Matter, 1994, 194-196, 1089-1090.	2.7	2
99	Hall effect in the quadrupolar Kondo ground state. Physical Review B, 1996, 53, 11320-11323.	3.2	2
100	Nonlinear electron transport in magnetic multilayers. Applied Physics Letters, 1999, 75, 704-706.	3.3	2
101	Non equilibrium magnetization in antiferromagnetically coupled [Fe/Cr]10 multilayers on large time scales. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 299-301.	2.3	2
102	Magnetic field induced suppression of vortex flow resistance in superconductors with periodic pinning centers. Physica C: Superconductivity and Its Applications, 2006, 437-438, 345-348.	1.2	2
103	Conductance inCo/Al2O3/Si/Al2O3permalloy with asymmetrically doped barrier. Physical Review B, 2010, 81, .	3.2	2
104	Magnetic-State Controlled Molecular Vibrational Dynamics at Buried Molecularâ€“Metal Interfaces. Journal of Physical Chemistry C, 2018, 122, 26499-26505.	3.1	2
105	Boosting Room Temperature Tunnel Magnetoresistance in Hybrid Magnetic Tunnel Junctions Under Electric Bias. Advanced Electronic Materials, 2022, 8, 2100805.	5.1	2
106	Thermal conductivity of the Bi2(Ca0.5Sr0.5)3Cu2Ox, Tl2Ba2Ca2Ox ceramics and GdBa2Cu3Ox single crystals. Physica B: Condensed Matter, 1990, 163, 647-648.	2.7	1
107	TRANSFORMATION OF THE U GROUND STATE IN UXTh1â^'XBe13 (1 > X > 0.07) COMPOUNDS. International Journal of Modern Physics B, 1993, 07, 22-25.	2.0	1
108	119Sn MÃ¶ssbauer study of CexLa1â^'xNiSn. Physica B: Condensed Matter, 1995, 206-207, 832-833.	2.7	1

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109	Nonlinear susceptibility as a probe for magnetic correlations in CeNiSn. European Physical Journal D, 1996, 46, 1995-1996.	0.4	1
110	Nonlinear susceptibility in U0.9Th0.1Be13: Direct test of a quadrupolar Kondo ground state. Physica B: Condensed Matter, 1996, 223-224, 475-477.	2.7	1
111	Ground state properties of. Physica B: Condensed Matter, 1999, 259-261, 419-420.	2.7	1
112	Anomalous electron transport in magnetic multilayers tuned by electric and magnetic fields. Scripta Materialia, 1999, 12, 377-382.	0.5	1
113	Electron interaction with domain walls in antiferromagnetically coupled multilayers. Physica B: Condensed Matter, 2000, 284-288, 1243-1244.	2.7	1
114	Quantum phase transition in Fe/Cr magnetic multilayers. Physica B: Condensed Matter, 2000, 284-288, 1307-1308.	2.7	1
115	Low-frequency response in antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1806-1807.	2.3	1
116	Low frequency magnetic noise in epitaxial antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 165-167.	2.3	1
117	Low-frequency response in the magnetic susceptibility of antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 501-503.	2.3	1
118	Unusual magnetic susceptibility and magnetoresistance in [Feâˆ•Cr(001)]10 multilayers at low temperatures. Journal of Applied Physics, 2005, 97, 10C505.	2.5	1
119	Low-frequency noise and inelastic tunneling spectroscopy in Fe(110)/MgO(111)/Fe(110) epitaxial magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2006, 300, 132-135.	2.3	1
120	Unexpected Resonant Response in[Fe(001)/Cr(001)]10/MgO(001)Multilayers in a Magnetic Field. Physical Review Letters, 2009, 102, 035503.	7.8	1
121	Probing ground state in circular magnetic dots: Single vs. double magnetic vortex. , 2010, , .		1
122	Spin Wave Excitations and Winterâ€™s Magnons in Vertically Coupled Vortex State Permalloy Dots. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2057-2061.	1.8	1
123	SPIN WAVES ALONG THE EDGE STATES. Spin, 2014, 04, 1440003.	1.3	1
124	Anisotropy of upper critical field near TC and magnetic gap of superconducting URu2Si2 single crystal.. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2623-2624.	1.2	0
125	Low temperature specific heat of ferroelectric trisarcosine calcium chloride. Ferroelectrics, Letters Section, 1996, 20, 127-130.	1.0	0
126	Quadrupolar kondo ground state in U0.9Th0.1Be13. European Physical Journal D, 1996, 46, 2585-2586.	0.4	0

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127	Magnetic structure of antiferromagnetic superconductor Tb2Mo3Si4. Physica C: Superconductivity and Its Applications, 1996, 270, 159-166.	1.2	0
128	Non-Fermi liquid ground state in magnetic multilayers tuned by electric and magnetic fields. Physica B: Condensed Matter, 1999, 259-261, 429-430.	2.7	0
129	Ground state properties of Ce1âˆ'xYxNi0.8Pt0.2 for 0â©½xâ©½0.3 near ferromagnetic instability. Physica B: Condensed Matter, 1999, 259-261, 40-41.	2.7	0
130	Ground-state crossover in U1-xThxBe13(0â©½xâ©½0.15). Journal of Physics Condensed Matter, 2000, 12, 4187-4193.	1.8	0
131	Domain Wall Magnetoresistance and Complex magnetic Response in Antiferromagnetically Coupled Fe/Cr Multilayers. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
132	Complex magnetic response in magnetic tunnel junctions determined via magnetic and transport measurements. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
133	The evanescence of ferromagnetic order in the Ce $ mathsf {_{1-x}}$ Y $ mathsf {_{x}}$ Ni $ mathsf {_{0.8}}$ Pt $ mathsf {_{0.2}}$ dense Kondo system. European Physical Journal B, 2002, 28, 103-109.	1.5	0
134	Low frequency noise and complex AC magnetoresistance in superconducting Pb/Ge with square antidot lattice. Physica C: Superconductivity and Its Applications, 2004, 404, 30-33.	1.2	0
135	Enhanced magnetic viscosity at low temperatures in [Fe/Cr(001)]10 multilayers. Journal of Magnetism and Magnetic Materials, 2007, 316, 344-347.	2.3	0
136	Shot noise in Co/Al2O3â€ˆMâ€‰/Py (M=Cr, Si) magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2007, 316, e990-e993.	2.3	0
137	Low frequency noise in Co/Al2O3âŒ©SiâŒª/Py magnetic tunnel junctions. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1040-1042.	1.8	0
138	Shot Noise in Epitaxial Double-Barrier Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2013, 49, 4347-4350.	2.1	0
139	Transient lateral photovoltaic effect in patterned ferromagnetic metal-oxide-semiconductor films. , 2015, , .		0
140	Electron transport and noise spectroscopy in organic magnetic tunnel junctions with PTCDA and Alq3 barriers. , 2016, , .		0
141	Low-Frequency 1/f Noise Characteristics of Ultra-Thin AlOx-Based Resistive Switching Memory Devices with Magneto-Resistive Responses. Electronics (Switzerland), 2021, 10, 2525.	3.1	0
142	Coupling and Magnetoresistance in Co/Cr/Ag/Co Structures. , 1998, , 501-506.		0
143	Problemas resueltos de mÃ©todos matemÃ¡ticos de la FÃsica: MÃ©todo de Fourier. , 2019, , .		0