Marek J WÃ³jcik

List of Publications by Year
in descending order

107 papers	2,525 citations	236612 25 h-index	214527 47 g-index
110 all docs	110 docs citations	110 times ranked	2390 citing authors

#	Article	IF	Citations
1	Highly disordered carbon penetration into the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> lattice: A superstructure in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>5</mml:mn></mml:msub> Physical Review B, 2022, 105, .	1.1	1
2	Selective modification of the unquenched orbital moment of manganese introduced by carbon dopant in epitaxial Mn5Ge3C0.2/Ge(111) films. Physical Review B, 2020, 101, .	1.1	8
3	Epitaxial Co1-xMox thin film alloys studied by 59Co NMR. Journal of Alloys and Compounds, 2019, 788, 559-564.	2.8	0
4	Study of hydrogen bond dynamics in Nylon 6 crystals using IR spectroscopy and molecular dynamics focusing on the differences between Î± and Î³ crystal forms. International Journal of Quantum Chemistry, 2018, 118, e25595.	1.0	11
5	Spectroscopic study of uracil, 1-methyluracil and 1-methyl-4-thiouracil: Hydrogen bond interactions in crystals and ab-initio molecular dynamics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 194-201.	2.0	6
6	59Co NMR analysis of CoFeB-MgO based magnetic tunnel junctions. Journal of Alloys and Compounds, 2018, 741, 775-780.	2.8	3
7	Rydberg transitions as a probe for structural changes and phase transition at polymer surfaces: an ATR-FUV-DUV and quantum chemical study of poly(3-hydroxybutyrate) and its nanocomposite with graphene. Physical Chemistry Chemical Physics, 2018, 20, 8859-8873.	1.3	20
8	Hyperfine fields and anisotropy of the orbital moment in epitaxial Mn5Ge3 films studied by Mn55 NMR. Physical Review B, 2018, 97, .	1.1	5
9	Ferromagnetic resonance in Mn5Ge3 epitaxial films with weak stripe domain structure. Journal Physics D: Applied Physics, 2017, 50, 125001.	1.3	9
10	The Born-Oppenheimer molecular simulations of infrared spectra of crystalline poly-(R)-3-hydroxybutyrate with analysis of weak C Hâ‹¯O C hydrogen bonds. Chemical Physics Letters, 2017, 678, 112-118.	1.2	11
11	Engineering the magnetic anisotropy of an ultrathin Co layer sandwiched between films of Mo or Au. Journal Physics D: Applied Physics, 2017, 50, 215004.	1.3	11
12	Strain-Driven Orbital and Magnetic Orders and Phase Separation in Epitaxial Half-Doped Manganite Films for Tunneling Devices. Physical Review Applied, 2016, 6, .	1.5	29
13	Structural Order in Heusler Compounds. Springer Series in Materials Science, 2016, , 87-109.	0.4	7
14	Interface and Bulk Charge Localization in Manganite Thin Films. Advanced Materials Interfaces, 2014, 1, 1400079.	1.9	2
15	Chalcopyrite semimagnetic semiconductors: From nanocomposite to homogeneous material. Science of Sintering, 2014, 46, 271-281.	0.5	1
16	Improving the Magnetic Properties of Coâ€“CoO Systems by Designed Oxygen Implantation Profiles. ACS Applied Materials & Interfaces, 2013, 5, 4320-4327.	4.0	22
17	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>55</mml:mn></mml:msup></mml:math>Mn NMR study of quaternary half-metallic ferromagnetic Co<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>	1.1	11
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>59</mml:mn></mml:msup></mml:math>Co NMR experiment as a probe of electron doping in Co<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>FeAl<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	21

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19	Paramagnetic regime in Zn_{1â^'x}Mn_xGeAs₂ diluted magnetic semiconductor. Physica Status Solidi (B): Basic Research, 2011, 248, 1601-1604.	0.7	8
20	Colossal linear magnetoresistance in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si17.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>CdGeAs</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> single crystal. Physical Review B, 2011, 83, .	0.9	24
21	Electronic, magnetic and structural properties of the ferrimagnet Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>CoSn. Physical Review B, 2011, 83, .	1.1	48
22	Magnetism and magnetotransport of strongly disordered Zn1â^'xMnxGeAs2 semiconductor: The role of nanoscale magnetic clusters. Journal of Applied Physics, 2010, 108, 073925.	1.1	28
23	Hyperfine magnetic field on iron atoms and Coâ€“Fe disordering in Co2FeSi. Journal of Applied Physics, 2010, 107, 09B106.	1.1	23
24	Signature of the Spin Triplet Phase in La_{0.7}Sr_{0.3}MnO₃/Yba₂Cu₃O₇/La_{0.7}Sr<sub> Acta Physica Polonica A, 2010, 118, 313-315.	0.2	2
25	Pressure effect on magnetic and structural properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2009, 79, .	1.1	17
26	Possible spin-triplet superconducting phase in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.7</mml:m Physical Review B, 2009, 80, .	1.1	49
27	Highly spin-polarized materials and devices for spintronics^{â—}. Science and Technology of Advanced Materials, 2008, 9, 014101.	2.8	277
28	Site disorder in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu alloys and its influence on junction tunnel magnetoresistance. Physical Review B, 2008, 77, .	1.1	63
29	Effects of random distribution of Mn,Fe in Co2Mn1â^'xFexSi Heusler compounds probed by Mn55 nuclear magnetic resonance. Journal of Applied Physics, 2008, 103, .	1.1	14
30	Effects of SrTiO3 capping in La2â•3Ca1â•3MnO3 electrodes of different orientations. Journal of Applied Physics, 2008, 103, 07E302.	1.1	5
31	Structural and functional characterization of (110)-oriented epitaxial La2â•3Ca1â•3MnO3 electrodes and SrTiO3 tunnel barriers. Journal of Applied Physics, 2007, 101, 093902.	1.1	14
32	Elastic and orbital effects on thickness-dependent properties of manganite thin films. Physical Review B, 2007, 76, .	1.1	93
33	Probing the random distribution of half-metallic Co2Mn1â^'xFexSi Heusler alloys. Applied Physics Letters, 2007, 91, .	1.5	36
34	Magnetic Properties of Ge1â^'xâ^'yMnxEuyTe Mixed Crystals. AIP Conference Proceedings, 2007, , .	0.3	3
35	Electronic structure, magnetism and disorder in the Heusler compound Co2TiSn. Journal Physics D: Applied Physics, 2007, 40, 1587-1592.	1.3	83
36	Field induced anisotropy and stability of soft magnetic properties towards high temperature in Co-rich nanocrystalline FeCoNbB alloys. Journal of Magnetism and Magnetic Materials, 2007, 310, 2494-2496.	1.0	15

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37	Structural Properties of Co and CoFe Electrodes Forming a Magnetic Tunnel Junction. Acta Physica Polonica A, 2007, 111, 135-140.	0.2	3
38	Structural and magnetic properties and tunnel magnetoresistance for Co2(Cr,Fe)Al and Co2FeSi full-Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, 816-823.	1.3	165
39	Co NMR study of nanocrystallization process in Co-rich HITPERM alloy. Journal of Magnetism and Magnetic Materials, 2006, 304, e712-e714.	1.0	5
40	Electronic phase separation in epitaxial La2âˆ•3Ca1âˆ•3MnO3 films on (001) and (110) SrTiO3 substrates. Journal of Applied Physics, 2006, 99, 08A701.	1.1	15
41	Structure and properties of CoMnSb in the context of half-metallic ferromagnetism. Physical Review B, 2006, 74, .	1.1	58
42	IV-VI ferromagnetic semiconductors recent studies. Science of Sintering, 2006, 38, 109-116.	0.5	16
43	Magnetic properties of nanocrystalline HITPERM alloys studied by 59Co NMR. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1431-1433.	1.0	3
44	Ferromagnetic coupling strength and electron-doping effects in double perovskites. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 974-980.	1.0	8
45	Electronic self-doping of Mo states inA2FeMoO6(A=Ca, Sr, and Ba) half-metallic ferromagnets: A nuclear magnetic resonance study. Physical Review B, 2005, 71, .	1.1	13
46	Ferromagnetic Coupling Strength and Electron-Doping Effects in Double Perovskites. ChemInform, 2005, 36, no.	0.1	0
47	Nanocrystallization of FeCoZrB alloys studied by Co59 nuclearmagnetic resonance. Applied Physics Letters, 2004, 85, 2884-2886.	1.5	7
48	Ferromagnetic coupling inNdxCa2â^'xFeMoO6double perovskites: Dominant band-filling effects. Physical Review B, 2004, 70, .	1.1	35
49	NMR evidence for selective enhancement of Mo magnetic moment by electron doping inSr2â^'xLaxFeMoO6. Physical Review B, 2004, 69, .	1.1	39
50	Heat-induced nanocluster formation in codeposited Ag1â^'xCox thin films: Nuclear magnetic resonance study. Journal of Applied Physics, 2004, 95, 2770-2775.	1.1	14
51	Moâ€“Fe antisite defects in Sr2FeMoO6 studied by NMR. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1834-1835.	1.0	6
52	Surface-induced phase separation in manganites: A microscopic origin for powder magnetoresistance. Applied Physics Letters, 2003, 82, 928-930.	1.5	57
53	Very low chemical disorder in epitaxial NiMnSb films on GaAs(111)B. Applied Physics Letters, 2003, 83, 4214-4216.	1.5	40
54	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. Physical Review B, 2003, 68, .	1.1	56

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55	Charge localization in nanometric La2/3Ca1/3MnO3 thin films grown on nearly matching substrates. Journal of Applied Physics, 2003, 93, 8065-8067.	1.1	5
56	Effect of deposition sequence on interface intermixing in Cu/Co/Ru and Ru/Co/Cu multilayers studied by NMR. Journal of Applied Physics, 2002, 91, 7191.	1.1	8
57	Charge trapping in optimally doped epitaxial manganite thin films. Physical Review B, 2002, 66, .	1.1	150
58	NMR evidence for MnSb environments within epitaxial NiMnSb films grown on GaAs(001). Journal of Magnetism and Magnetic Materials, 2002, 240, 414-416.	1.0	16
59	Magnetoresistive oxides: new developments and applications. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 98-104.	1.0	18
60	Thickness dependence of surface roughness and transport properties of La2/3Ca1/3MnO3 epitaxial thin films. Journal of Applied Physics, 2001, 89, 6686-6688.	1.1	25
61	Nanoscale Multiphase Separation atLa2/3Ca1/3MnO3/SrTiO3Interfaces. Physical Review Letters, 2001, 87, 067210.	2.9	233
62	Phase Separation at Interfaces in La2/3Ca1/3MnO3 Thin Films. Materials Research Society Symposia Proceedings, 2001, 690, F4.1.1.	0.1	0
63	Inhomogeneous electronic properties of epitaxial La2/3Ca1/3MnO3 thin films. Thin Solid Films, 2001, 400, 85-89.	0.8	1
64	Microscopic magnetism in MnAs/GaAs heterostructures studied by NMR. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1588-1590.	1.0	2
65	Structural study of nanometric electrodeposited Co films using 59Co NMR. Journal of Applied Physics, 2001, 89, 7083-7085.	1.1	15
66	Formation of a Co nanostructure revealed by59Conuclear magnetic resonance measurements in Co/Au multilayers. Physical Review B, 2000, 63, .	1.1	12
67	Inhomogeneous structure and magnetic properties of granularCo10Cu90alloys. Physical Review B, 2000, 63, .	1.1	51
68	Structural Studies of Co/Cu and Co/Ru Interfaces Using⁵⁹Co NMR Method. Acta Physica Polonica A, 2000, 97, 551-554.	0.2	3
69	Significant modification of59Cohyperfine fields assigned to specific structural changes in sputtered Co/Au and Co/Cu multilayers. Physical Review B, 1999, 59, 8812-8820.	1.1	10
70	Investigation of ion beam deposited spin valve interface structure by 59Co nuclear magnetic resonance. Journal of Applied Physics, 1999, 85, 4439-4441.	1.1	4
71	Identification of magnetic phases in granular Co10Cu90 alloy using NMR method. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 599-601.	1.0	25
72	Discontinuous Co layer in Co/Cu multilayers at the first antiferromagnetic maximum. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1183-1185.	1.0	4

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73	Structure of Co layers in Co/Cu multilayers at the first antiferromagnetic maximum studied by nuclear magnetic resonance. Journal of Applied Physics, 1997, 81, 4776-4778.	1.1	9
74	Magnetic Properties and Structure of Metallic Multilayers Investigated by NMR. Materials Research Society Symposia Proceedings, 1997, 475, 157.	0.1	16
75	NMR as a Tool in Structural Studies of Modern Magnetic Materials. , 1997, , 253-258.		0
76	Structural study by NMR in Co/Cu multilayers at second antiferromagnetic maximum. Journal of Magnetism and Magnetic Materials, 1997, 165, 292-296.	1.0	23
77	New phases and chemical short range order in co-deposited CoFe thin films with bcc structure: an NMR study. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1997, 103, 5-12.	1.1	31
78	On the stability of bcc Co in Co/Fe superlattices an NMR and XRD study. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1997, 101, 329-337.	1.1	28
79	NMR analysis of buried metallic interfaces. Hyperfine Interactions, 1996, 97-98, 75-98.	0.2	59
80	Structural studies in Co/Zr multilayers using NMR. Journal of Magnetism and Magnetic Materials, 1996, 156, 38-40.	1.0	5
81	NMR study in amorphous CoZr thin film alloys. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 220-222.	1.0	9
82	Hyperfine field and ordering in bcc CoFe bulk alloys studied by 59Co NMR and Monte-Carlo simulation. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1996, 101, 471-486.	1.1	29
83	Structure des multicouches mÃ©talliques et de leurs interfaces vue par RMN. European Physical Journal Special Topics, 1996, 06, C7-89-C7-106.	0.2	0
84	Nmr Studies of Bulk and Interface Structure in Co Based Multilayers. Materials Research Society Symposia Proceedings, 1995, 384, 61.	0.1	9
85	Automated pulsed NMR spectrometer for modern magnetic materials. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 2187-2188.	1.0	28
86	Structure and magnetism in bcc Co/Fe superlattices. Journal of Magnetism and Magnetic Materials, 1993, 126, 12-15.	1.0	22
87	Two magnetic states of Nd in Nd2(CoFe)14B â€”145Nd NMR study. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1405-1406.	1.0	7
88	NMR study of Nd2(Fe1â^'xCox)14B for low Co content (abstract). Journal of Applied Physics, 1991, 69, 6070-6070.	1.1	0
89	Spin arrangements in (Nd1â^'xYx)2Co14B studied by NMR. Journal of Applied Physics, 1991, 69, 6043-6045.	1.1	5
90	Domain Wall NMR in Anisotropic Ferromagnets Application to the System Re-(CoFe)-B. , 1991, , 315-353.		1

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91	Some Nuclear Magnetic Resonance Results on Nd-Fe-B Phases. , 1991, , 283-314.		1
92	NMR study of the low temperature spin canting in Nd2(CoFe)14B with low Fe content. Journal of Applied Physics, 1990, 67, 4586-4588.	1.1	8
93	Low-temperature spin reorientation and Co hyperfine fields inNd2Co14B studied by NMR. Physical Review B, 1989, 40, 2606-2609.	1.1	11
94	NMR study of local properties of Co in Nd2(CoFe)14B. Journal of Magnetism and Magnetic Materials, 1989, 80, 19-22.	1.0	7
95	Hyperfine fields in La2Co14B. Journal of Magnetism and Magnetic Materials, 1988, 72, 330-334.	1.0	5
96	SPIN ECHO NMR IN Nd₂ (CoFe)₁₄B. Journal De Physique Colloque, 1988, 49, C8-587-C8-588.	0.2	9
97	NMR study of Fe hyperfine field assignments inNd15Fe77B8and Co site preference inNd15Fe77â^'xCoxB8. Physical Review B, 1987, 36, 8213-8218.	1.1	15
98	59Co spin echo NMR in the Co3â^'xFexB system. Journal of Applied Physics, 1987, 61, 3650-3652.	1.1	1
99	A NMR and MÃ¶ssbauer study of Nd2Fe14B. Journal of Applied Physics, 1985, 57, 4124-4126.	1.1	43
100	Hyperfine fields and magnetic moments of crystalline Co3â^'xFexB and glassy Co4â^'xFexB alloys. Journal of Applied Physics, 1984, 55, 2288-2290.	1.1	14
101	Wall NMR in the weak ferromagnets YCrO3 and LuCrO3. Journal of Magnetism and Magnetic Materials, 1984, 40, 303-313.	1.0	8
102	Hyperfine field interactions in crystalline Fe3, P1â^'xBx alloys. Hyperfine Interactions, 1983, 16, 725-728.	0.2	1
103	Estimation of applicability of the electrostatic model to calculate the crystal field parameters in garnets. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 121, 370-388.	0.9	0
104	Two Types of Tetrahedral Sites in the Mixed {Ca2Na} [Mg2] (V3)O12 Garnet. Physica Status Solidi (B): Basic Research, 1982, 112, 483-488.	0.7	3
105	ESR and NMR Study of Mixed Yttriumâ€"Lutetiumâ€"Aluminum Garnets. Physica Status Solidi (B): Basic Research, 1980, 102, 249-256.	0.7	13
106	Electrostatic model of the crystal field in garnets. Journal of Magnetism and Magnetic Materials, 1980, 15-18, 21-22.	1.0	3
107	Epitaxial Growth of NiMnSb on GaAs by Molecular Beam Epitaxy. , 0, , 153-185.		0