Viorel Pop, V Pop

List of Publications by Year
in descending order

89 papers	1,109 citations	394421 19 h-index	501196 28 g-index
90 all docs	90 docs citations	90 times ranked	761 citing authors

#	Article	IF	Citations
1	Magnetic properties of RCo4B compounds where R = Y, Pr, Nd, Gd and Er. Journal of Magnetism and Magnetic Materials, 1987, 66, 69-73.	2.3	84
2	Synthesis and magnetic properties of Ni3Fe intermetallic compound obtained by mechanical alloying. Journal of Alloys and Compounds, 2003, 352, 34-40.	5.5	70
3	On the magnetic behaviour of ACo2 (A = Y, Lu, Zr, Sc and Hf) compounds. Journal of Magnetism and Magnetic Materials, 1993, 123, 159-164.	2.3	62
4	Synthesis, structural and magnetic characterization of nanocrystalline nickel ferriteâ€”NiFe2O4 obtained by reactive milling. Journal of Alloys and Compounds, 2011, 509, 7931-7936.	5.5	59
5	Crystallographic and magnetic study of the nanocrystalline Ni3Fe intermetallic compound formation by mechanical alloying and annealing. Journal of Alloys and Compounds, 2003, 361, 144-152.	5.5	40
6	Magnetic properties of R/sub n+1/Co/sub 3n+5/B/sub 2n/ compounds with R=Y or Gd. IEEE Transactions on Magnetics, 1994, 30, 628-630.	2.1	31
7	EPR and magnetic susceptibility studies of Cu2+ ions in Bi2O3Â·GeO2 glasses. Solid State Communications, 1996, 100, 609-613.	1.9	30
8	AC magnetic properties of the soft magnetic composites based on nanocrystalline Niâ€“Fe powders obtained by mechanical alloying. Journal of Magnetism and Magnetic Materials, 2007, 310, 2474-2476.	2.3	27
9	Synthesis of nanocrystalline Supermalloy powders by mechanical alloying: A thermomagnetic analysis. Journal of Magnetism and Magnetic Materials, 2010, 322, 1548-1551.	2.3	27
10	Influence of wet milling conditions on the structural and magnetic properties of Ni3Fe nanocrystalline intermetallic compound. Intermetallics, 2011, 19, 19-25.	3.9	26
11	Structural, electronic and magnetic properties of the Mn50Al46Ni4 alloy. Journal of Magnetism and Magnetic Materials, 2016, 401, 841-847.	2.3	25
12	Bulk magnetic properties of the Y2TxFe14-xB compounds, where T = Al, Ni or Co. Solid State Communications, 1986, 58, 803-805.	1.9	23
13	Magnetic properties of (GdxY1â^'x)2Co7B3compounds. Journal of Applied Physics, 1993, 73, 5695-5697.	2.5	23
14	The influence of short time heat treatment on the structural and magnetic behaviour of Nd2Fe14B/Î±-Fe nanocomposite obtained by mechanical milling. Journal of Alloys and Compounds, 2011, 509, 9964-9969.	5.5	23
15	A magnetic and MÃ¶ssbauer spectral study of the spin reorientation in NdFe11Ti and NdFe11TiH. Journal of Applied Physics, 2004, 95, 6308-6316.	2.5	22
16	Structural and magnetic properties of nanocrystalline NiFeCuMo powders produced by wet mechanical alloying. Journal of Alloys and Compounds, 2011, 509, 3632-3637.	5.5	22
17	Electronic and Thermoelectric Properties of Transition-Metal Dichalcogenides. Journal of Physical Chemistry C, 2021, 125, 27084-27097.	3.1	21
18	A magnetic and MÃ¶ssbauer spectral study of PrFe11Ti and PrFe11TiH. Journal of Alloys and Compounds, 2004, 377, 1-7.	5.5	20

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19	Magnetic properties of Y2Fe14â^'xMxB compounds where M=Si OR Cu. Solid State Communications, 1987, 61, 61-64.	1.9	19
20	Synthesis and characterization of Feâ€"Pt based multishell magnetic nanoparticles. Journal of Alloys and Compounds, 2013, 574, 477-485.	5.5	18
21	Structural, electronic and magnetic properties of the Mn 54â^'x Al 46 Ti x (xÂ=Â2; 4) alloys. Intermetallics, 2017, 82, 101-106.	3.9	18
22	X-ray photoelectron spectroscopy and magnetism of Gd3Ni8Al. Journal of Alloys and Compounds, 2002, 333, 1-3.	5.5	16
23	Magnetic and structural properties of SmCo5/Î±-Fe nanocomposites. Journal of Magnetism and Magnetic Materials, 2007, 310, 2489-2490.	2.3	15
24	Effects of Co for Mn substitution on the electronic properties of Mn2-xCoxVAl as probed by XPS. Intermetallics, 2018, 93, 155-161.	3.9	15
25	Half-metallic compensated ferrimagnetism in the Mn-Co-V-Al Heusler alloys. Journal of Magnetism and Magnetic Materials, 2019, 475, 229-233.	2.3	15
26	Atomic-Scale Investigation of SmCo₅/Î±-Fe Nanocomposites: Influence of Fe/Co Interdiffusion on the Magnetic Properties. Journal of Physical Chemistry C, 2013, 117, 7801-7810.	3.1	14
27	X-ray photoelectron spectroscopy and magnetism of Mn1â^'xAlxNi alloys. Journal of Magnetism and Magnetic Materials, 2009, 321, 3415-3421.	2.3	13
28	Negative Colossal Magnetoresistance Driven by Carrier Type in the Ferromagnetic Mott Insulator GaV₄S₈. Chemistry of Materials, 2015, 27, 4398-4404.	6.7	13
29	INTERGRANULAR PROPERTIES OF (Y1-x-yZrxCay)Ba2Cu3O7-Î´ COMPOUNDS. International Journal of Modern Physics B, 1999, 13, 1645-1654.	2.0	12
30	The influence of milling and annealing on the structural and magnetic behavior of Nd2Fe14B/Î±-Fe magnetic nanocomposite. Journal of Alloys and Compounds, 2013, 581, 821-827.	5.5	12
31	The influence of milling and annealing conditions on the structural and magnetic behavior of Nd2Fe14B/Î±-Fe hard/soft magnetic nanocomposites. Journal of Alloys and Compounds, 2015, 646, 859-865.	5.5	12
32	Magnetic Properties of SmCo5 + 10 wt% Fe Exchange-Coupled Nanocomposites Produced from Recycled SmCo5. Nanomaterials, 2020, 10, 1308.	4.1	12
33	NiFeCuMo magnetic powders obtained by controlled mechanical alloying and annealing. Journal of Magnetism and Magnetic Materials, 2007, 316, e900-e903.	2.3	11
34	X-ray photoelectron spectroscopy and magnetism of Mnâ€"Pd alloys. Journal of Alloys and Compounds, 2006, 417, 7-12.	5.5	10
35	Thermal evolution of the Ni3Fe compound obtained by mechanical alloying as probed by differential scanning calorimetry. Journal of Alloys and Compounds, 2013, 554, 39-44.	5.5	10
36	Influence of mechanical milling on the physical properties of SmCo5/Fe65Co35 type hard/soft magnetic nanocomposite. Journal of Alloys and Compounds, 2013, 560, 189-194.	5.5	10

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37	Influence of microstructure on the interphase exchange coupling of Nd2Fe14BÂ+Â10Âwt%Î±-Fe nanocomposites obtained at different milling energies. Journal of Alloys and Compounds, 2017, 697, 19-24.	5.5	10
38	Magnetic properties of GdCo4-xMxB compounds where M = FeorNi. Journal of Magnetism and Magnetic Materials, 1991, 97, 147-151.	2.3	9
39	Magnetic properties of ThFe11Cx compounds (x=1.5, 1.8). Journal of Magnetism and Magnetic Materials, 2003, 256, 133-138.	2.3	9
40	Magnetic properties of Alâ€“Gdâ€“Ni orthorhombic compounds. Journal of Alloys and Compounds, 2005, 390, 16-20.	5.5	9
41	Effect of hydrogen as interstitial element on the magnetic properties of some iron rich intermetallic compounds. Journal of Alloys and Compounds, 2011, 509, S549-S554.	5.5	9
42	Neutron diffraction investigation of the crystal and magnetic structure of the new ThCo4B compound. Journal of Physics Condensed Matter, 2003, 15, 791-801.	1.8	8
43	Effects of M=Si, Ga and Al for Co substitution on the electronic properties of RCo4M as probed by XPS. Solid State Communications, 2014, 199, 43-46.	1.9	8
44	Magnetic properties of (Gd x Y 1â^'x)Co 2 B 2 compounds. Journal of Magnetism and Magnetic Materials, 1993, 118, L285-L289.	2.3	7
45	Influence of Wet-Milling Process on Magnetic Properties of Supermalloy Magnetic Nanocrystalline Powders. IEEE Transactions on Magnetics, 2010, 46, 424-427.	2.1	7
46	Synthesis, Structural, and Magnetic Properties of Nanocrystalline/Nanosized Manganese-Nickel Ferriteâ€“${m Mn}_{0.5}{m Ni}_{0.5}{m Fe}_{2}{m O}_{4}$. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	7
47	Magnetic properties of R2(Fe, Co, Al)14B compounds where R = Pr and Nd. Journal of Magnetism and Magnetic Materials, 1987, 70, 343-344.	2.3	6
48	Magnetic properties of Y(Co1â^'xNix)4Al compounds. Journal of Alloys and Compounds, 1996, 242, L5-L7.	5.5	6
49	Magnetic Properties of Biaxially Oriented NI-V Substrate. International Journal of Modern Physics B, 1999, 13, 1169-1175.	2.0	6
50	Magnetic characteristics and band structure calculations of Y2Co7â€“xNixB3 compounds. Physica Status Solidi (B): Basic Research, 2003, 237, 540-548.	1.5	6
51	Magnetic behavior of Co and Ni in pseudoternary boron compounds. Journal of Magnetism and Magnetic Materials, 2007, 316, e379-e382.	2.3	6
52	Electronic structure and magnetic properties of RCo5â^'xMx (R=Y, Pr and M=Al, Si) system. Journal of Magnetism and Magnetic Materials, 2010, 322, 1052-1055.	2.3	6
53	Effect of Milling Conditions on the Microstructure and Interphase Exchange Coupling of Nd2Fe14B/Î±-Fe Nanocomposites. Physics Procedia, 2015, 75, 1314-1323.	1.2	6
54	Magnetic properties of Th2Fe17Cx compounds (x=0,0.6,0.9,1.1). Journal of Applied Physics, 2007, 101, 103908.	2.5	5

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55	X-ray photoelectron spectroscopy and magnetism of MnPd1â€“xSbx alloys. Physica Status Solidi (B): Basic Research, 2007, 244, 3190-3197.	1.5	5
56	Magnetic behavior of SmCo3Cu2/Î±-Fe nanocomposite obtained by mechanical milling. Journal of Magnetism and Magnetic Materials, 2007, 316, e503-e506.	2.3	5
57	Electronic structure and magnetic properties of the compound. Journal of Magnetism and Magnetic Materials, 2008, 320, 36-42.	2.3	5
58	Heat-treatment influence on Niâ€“Feâ€“Cuâ€“Mo nanocrystalline alloy obtained by mechanical alloying. Journal of Thermal Analysis and Calorimetry, 2012, 110, 295-299.	3.6	5
59	Influence of high anisotropy phase on the properties of hardâ€“soft magnetic nanocomposite powders obtained by mechanical milling. Powder Metallurgy, 2018, 61, 369-373.	1.7	5
60	Magnetic properties of iron-modified amorphous carbon. Semiconductors, 2005, 39, 840-844.	0.5	4
61	MAGNETIC BEHAVIOR OF Al2GdNi COMPOUND. Modern Physics Letters B, 2006, 20, 401-408.	1.9	4
62	Magnetic properties of the iron sublattice in the YFe_{12â^'x}M_xcompounds (M = Ti, Mo or V;x= 1â€“3.5). Journal of Physics Condensed Matter, 2009, 21, 406003.	1.8	4
63	Effects of substitution of Ni by Sb in MnNi. Physica Status Solidi (B): Basic Research, 2009, 246, 50-55.	1.5	4
64	Influence of Cu Doping on the Electronic Structure and Magnetic Properties of the Mn₂VAl Heusler Compound. Physica Status Solidi (B): Basic Research, 2017, 254, 1700160.	1.5	4
65	Investigations on compensated ferrimagnetism in the Mn2Co0.5V0.5Al Heusler alloy. Solid State Communications, 2020, 309, 113812.	1.9	4
66	Magnetic properties of (GdzY1â^'z)2Co7 compounds. Journal of the Less Common Metals, 1985, 111, 97-100.	0.8	3
67	Effects of substitution of Sb for Pd in MnPd3 compound. Physica Status Solidi (B): Basic Research, 2006, 243, 1914-1921.	1.5	3
68	X-ray photoelectron spectroscopy and magnetism of Mn1â^'x Alx alloys. Open Physics, 2008, 6, .	1.7	3
69	Investigations on the magnetic properties of the Fe5-xCoxSiB2 alloys by experimental and band structure calculation methods. Journal of Magnetism and Magnetic Materials, 2020, 505, 166748.	2.3	3
70	THE MAGNETIC BEHAVIOR OF (Y1-xTbx)3Co11B4 INTERMETALLIC COMPOUNDS. Modern Physics Letters B, 1999, 13, 905-910.	1.9	2
71	Magnetic behavior of iron in Tb1â^'xZrxFe2 compounds. Journal of Magnetism and Magnetic Materials, 2007, 316, e387-e389.	2.3	2
72	Formation of the Hipernik Alloy by Mechanical Alloying. Materials Science Forum, 0, 672, 68-71.	0.3	2

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73	A MÃ¶ssbauer investigation of the formation of the Ni3Fe phase by high energy ball milling and subsequent annealing. Intermetallics, 2013, 35, 128-134.	3.9	2
74	Influence of Al on the magnetic properties of TmCo4Al compound, a magnetic and neutron diffraction study. Journal of Alloys and Compounds, 2015, 626, 70-75.	5.5	2
75	Investigation by MÃ¶ssbauer spectroscopy and atom probe tomography of the phase transformation of Nd-Fe-B alloys after high-energy ball milling. Journal of Applied Physics, 2018, 124, 223905.	2.5	2
76	A diffuse phase transition in superconducting YBa2(Cu1 â^' xMnx)3O7 â^' Î´ (Mî—»Zn, Ni, Cr) compounds. Materials Letters, 1995, 24, 195-197.	2.6	1
77	Magnetic Properties of Y₃Co_{11-x}M_xB₄ with M=Cu and Al. Materials Science Forum, 2001, 373-376, 637-640.	0.3	1
78	MAGNETIC PROPERTIES OF CaxLa1 - xMnO3 (x > 0.5) PEROVSKITES. Modern Physics Letters B, 2003, 17, 263-266.	1.9	1
79	Magnetic and structural properties of Fe65Co35 alloys obtained by melting, high-energy milling and heat treatment. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1352-1355.	3.5	1
80	Structural, Magnetic and Superconducting Properties of the Y1-xZrxBa2-2xCa2xCu3O7-Î´ Compounds. Modern Physics Letters B, 1997, 11, 1175-1180.	1.9	0
81	A Magnetic and Moessbauer Spectral Study of PrFe11Ti and PrFe11TiH.. ChemInform, 2004, 35, no.	0.0	0
82	Magnetic Properties in ThCo4B System. AIP Conference Proceedings, 2007, , .	0.4	0
83	Electronic structure and magnetic properties of the ThxY1â^'xCo4B solid solution. Computational Materials Science, 2010, 50, 295-300.	3.0	0
84	Synthesis of the MÃ¼metal Magnetic Powders by Mechanical Alloying. Materials Science Forum, 0, 672, 157-160.	0.3	0
85	The Influence of Processing Parameters on the Magnetic Properties of the Nanocrystalline Soft Magnetic Composites Based on Ni₃Fe. Materials Science Forum, 0, 672, 187-190.	0.3	0
86	Physical Properties of Bonded Nanocomposite Type Hard-Soft Magnets. Materials Science Forum, 0, 672, 84-87.	0.3	0
87	Soft Magnetic Nanocrystalline Ni-Fe-X-Y and MeFe2O4 Powders Obtained by Mechanosynthesis. Studia Universitatis BabeÈ™-Bolyai Physica, 2021, 66, 19-30.	0.0	0
88	Combined MÃ¶ssbauer Spectrometry and Atom Probe Tomography Investigation of Mechanically Milled Rare Earth / Transition Metal Powders. Studia Universitatis BabeÈ™-Bolyai Physica, 2021, 66, 55-68.	0.0	0
89	The Nature of Mn-Mn Coupling in Mn-Ni-Al Alloys. Studia Universitatis BabeÈ™-Bolyai Physica, 2021, 66, 111-120.	0.0	0