

# Olivier Isnard

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

479  
papers

6,698  
citations

36  
h-index

56  
g-index

519  
ext. papers

7,259  
ext. citations

3.4  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
479	Staircase effect in field-induced metamagnetic transitions in $\text{La}_{0.9}\text{Ce}_{0.1}\text{Fe}_{12}\text{B}_6$ . <i>Solid State Communications</i> , <b>2022</b> , 341, 114568	1.6	0
478	Interphase Exchange Coupling and Magnetocaloric Effect in $\text{Co}_3\text{Gd}_4/\text{Co}_7\text{Gd}_{12}$ Magnetic Nanocomposites, Obtained by Mechanical Milling. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2022</b> , 169505	2.8	0
477	Metallic Magnetic Materials <b>2021</b> , 693-808		
476	Magnetic-field-induced structural phase transition and giant magnetoresistance in $\text{La}_{0.85}\text{Ce}_{0.15}\text{Fe}_{12}\text{B}_6$ . <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
475	Magnetostriction and extraordinary exchange spring and exchange bias effects in $\text{Ni}_{48}\text{Mn}_{39}\text{Sn}_{13}$ Heusler alloy. <i>Intermetallics</i> , <b>2021</b> , 132, 107137	3.5	3
474	Giant volume magnetostriction in $\text{La}_{0.85}\text{Ce}_{0.15}\text{Fe}_{12}\text{B}_6$ . <i>Applied Physics Letters</i> , <b>2021</b> , 118, 262409	3.4	0
473	Colossal magneto-resistive relaxation effects in $\text{La}_{0.9}\text{Ce}_{0.1}\text{Fe}_{12}\text{B}_6$ . <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 243902	2.5	1
472	Raman spectra of vanadates $\text{MV}_2\text{O}_6$ (M= Mn, Co, Ni, Zn) crystallized in the non-usual columbite-type structure. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 154, 110034	3.9	1
471	Influence of heat treatment, near the temperature region of Fe $\leftrightarrow$ transformation, on the interphase exchange coupling of $\text{Nd}_2\text{Fe}_{14}\text{B} + \text{Fe}$ nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 520, 166960	2.8	1
470	Investigation of the itinerant metamagnetic system $\text{Hf}_{0.75}\text{Ta}_{0.25}\text{Fe}_2$ under extreme conditions of pressure or magnetic field. <i>Intermetallics</i> , <b>2021</b> , 129, 107054	3.5	
469	Metallic Magnetic Materials <b>2021</b> , 1-116		
468	Crystal, electronic and magnetic structures of a novel series of intergrowth carbometalates $\text{RCoC}$ (R = Y, Gd, Tb). <i>Dalton Transactions</i> , <b>2021</b> , 50, 4202-4209	4.3	0
467	Giant spontaneous resistivity jumps in $\text{La}_{0.825}\text{Ce}_{0.175}\text{Fe}_{12}\text{B}_6$ . <i>Applied Physics Letters</i> , <b>2021</b> , 119, 032403	3.4	0
466	Effects of the C interstitial doping on the magnetic properties of LTP MnBi. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 532, 167997	2.8	1
465	Magnetic-field-induced avalanches in magnetization and magnetoresistance of $\text{La}_{0.9}\text{Ce}_{0.1}\text{Fe}_{12}\text{B}_6$ compound. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	1
464	Synthesis and characterisation of amorphous $\text{Fe}_{38.5}\text{Co}_{38.5}\text{Nb}_7\text{B}_{15}\text{Cu}_1$ powders via mechanosynthesis using industrial raw materials. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 880, 160497	5.7	3
463	Soft Magnetic Nanocrystalline Ni-Fe-X-Y and $\text{MeFe}_2\text{O}_4$ Powders Obtained by Mechanosynthesis. <i>Studia Universitatis Babeş-Bolyai Physica</i> , <b>2021</b> , 66, 19-30		

462	Combined Mössbauer Spectrometry and Atom Probe Tomography Investigation of Mechanically Milled Rare Earth / Transition Metal Powders. <i>Studia Universitatis Babeş-Bolyai Physica</i> , <b>2021</b> , 66, 55-68		
461	Investigations on the magnetic properties of the Fe <sub>5-x</sub> Co <sub>x</sub> SiB <sub>2</sub> alloys by experimental and band structure calculation methods. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 505, 166748	2.8	0
460	Peculiarity of a magnetic structure in a quasi-one-dimensional columbite Co <sub>0.4</sub> Ni <sub>0.6</sub> Nb <sub>2</sub> O <sub>6</sub> . <i>AIP Advances</i> , <b>2020</b> , 10, 035016	1.5	
459	Origin of the metamagnetic transitions in Y <sub>1-x</sub> Er <sub>x</sub> Fe <sub>2</sub> (H,D) <sub>4.2</sub> compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 512, 167018	2.8	4
458	Electrical magnetotransport properties in RCo <sub>12</sub> B <sub>6</sub> compounds (R=Y, Gd, and Ho). <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	9
457	Investigations on compensated ferrimagnetism in the Mn <sub>2</sub> Co <sub>0.5</sub> V <sub>0.5</sub> Al Heusler alloy. <i>Solid State Communications</i> , <b>2020</b> , 309, 113812	1.6	4
456	Neutron Diffraction Investigation of the DyFe <sub>11</sub> Ti Magnetic Structure and Its Spin Reorientations. <i>Engineering</i> , <b>2020</b> , 6, 154-158	9.7	6
455	Structural properties and Raman spectra of columbite-type NiNb <sub>2</sub> V <sub>2</sub> O <sub>6</sub> synthesized under high pressure. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 291, 121607	3.3	3
454	Heat capacity and high temperature electrical transport properties of TbNiC <sub>2</sub> . <i>Solid State Sciences</i> , <b>2020</b> , 108, 106396	3.4	
453	Giant negative thermal expansion across the first-order magnetoelastic transition in Hf <sub>0.86</sub> Ta <sub>0.14</sub> Fe <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 156310	5.7	3
452	Magnetically driven giant negative thermal expansion covering room temperature in Hf <sub>0.875</sub> Ta <sub>0.125</sub> Fe <sub>2</sub> . <i>Solid State Communications</i> , <b>2020</b> , 320, 114021	1.6	0
451	Ternary antimonides Ln <sub>2</sub> Pd <sub>9</sub> Sb <sub>3</sub> (Ln = La, Ce, Nd, Pr, and Sm): Crystal, electronic structure, and magnetic properties. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152428	5.7	1
450	Magnetic order suppression and structural characterization of MnNb <sub>2-x</sub> V <sub>x</sub> O <sub>6</sub> columbites crystallized under extreme pressure conditions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 496, 165907	2.8	2
449	Magnetic ordering of Ho <sub>6</sub> Co <sub>2</sub> Ga-type {Gd, Tb, Dy} <sub>6</sub> Co <sub>2.2</sub> Al <sub>0.8</sub> and Tb <sub>6</sub> Co <sub>2</sub> Al compounds by magnetization and neutron diffraction study. <i>Intermetallics</i> , <b>2019</b> , 113, 106588	3.5	3
448	Pressure dependence of the magnetic properties and phase diagram of HoCo <sub>12</sub> B <sub>6</sub> ferrimagnetic compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 476, 106-110	2.8	2
447	Effect of pressure on the magnetic and structural properties of Fe <sub>5</sub> SiB <sub>2</sub> compound. <i>Intermetallics</i> , <b>2019</b> , 110, 106484	3.5	3
446	Structural, magnetic and Mössbauer spectroscopy characterisation of the Fe-15 wt %Si nanocrystalline powder obtained by mechanical alloying and annealing. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 865-873	5.7	4
445	Magnetic ordering of Lu <sub>14</sub> Co <sub>3</sub> In <sub>3</sub> -type {Gd, Tb} <sub>14</sub> Ni <sub>3</sub> Al <sub>3</sub> compounds by magnetization heat capacity and neutron diffraction study. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 273, 199-206	3.3	2

444	A magnetic study of the HoCo <sub>12</sub> -Fe B <sub>6</sub> ferrimagnetic compounds. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 804, 392-395	5.7	0
443	Synthesis of Invar 36 type alloys from elemental and prealloyed powders by mechanical alloying. <i>Powder Metallurgy</i> , <b>2019</b> , 62, 155-161	1.9	0
442	Structural and magnetic characterization of the Nd <sub>2</sub> Fe <sub>14</sub> B + 10%wt.Fe system subjected to high-energy milling. <i>Hyperfine Interactions</i> , <b>2019</b> , 240, 1	0.8	1
441	Metamagnetic transitions in Y <sub>0.5</sub> Er <sub>0.5</sub> Fe <sub>2</sub> D <sub>4.2</sub> deuteride studied by high magnetic field and neutron diffraction experiments. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 477, 356-365	2.8	7
440	Half-metallic compensated ferrimagnetism in the Mn-Co-V-Al Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 475, 229-233	2.8	8
439	Effect of cobalt addition on the magneto-crystalline anisotropy parameter of sintered NiZn ferrites evaluated from magnetization curves. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 473, 92-98	2.8	6
438	Quasi-one-dimensional magnetism in Mn <sub>x</sub> Fe <sub>1-x</sub> Nb <sub>2</sub> O <sub>6</sub> compounds: From Heisenberg to Ising chains. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 456, 142-149	2.8	1
437	Multiple magnetization steps and plateaus across the antiferromagnetic to ferromagnetic transition in La <sub>1-x</sub> Ce <sub>x</sub> Fe <sub>12</sub> B <sub>6</sub> : Time delay of the metamagnetic transitions. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	11
436	Monitoring long-term evolution of engineered barrier systems using magnets: Magnetic response. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 341, 28-35	12.8	4
435	Study of magnetic properties of NiZnCu ferrite synthesized by Pechini method and solid-state reactions. <i>AIP Advances</i> , <b>2018</b> , 8, 047801	1.5	3
434	Influence of process control agent type on the mechanosynthesis of Fe <sub>3</sub> O <sub>4</sub> particles. <i>Advanced Powder Technology</i> , <b>2018</b> , 29, 1838-1847	4.6	4
433	Synthesis, crystal structure and magnetic properties of R <sub>1</sub> Ni <sub>6</sub> O <sub>6</sub> (R = Tb, Dy) compounds. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 122, 189-197	3.9	2
432	Effects of Co for Mn substitution on the electronic properties of Mn <sub>2-x</sub> Co <sub>x</sub> VAl as probed by XPS. <i>Intermetallics</i> , <b>2018</b> , 93, 155-161	3.5	10
431	AlSb intermetallic semiconductor compound formation by solid state reaction after partial amorphization induced by mechanical alloying. <i>Intermetallics</i> , <b>2018</b> , 93, 371-376	3.5	9
430	Hydrogen Insertion in the Intermetallic GdScGe: A Drastic Reduction of the Dimensionality of the Magnetic and Transport Properties. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 14230-14239	5.1	4
429	Investigation by Mössbauer spectroscopy and atom probe tomography of the phase transformation of Nd-Fe-B alloys after high-energy ball milling. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 223905	2.5	2
428	Influence of high anisotropy phase on the properties of hard/soft magnetic nanocomposite powders obtained by mechanical milling. <i>Powder Metallurgy</i> , <b>2018</b> , 61, 369-373	1.9	2
427	Structural and magnetic properties of NdCo <sub>12</sub> -Fe B <sub>6</sub> ferromagnetic compounds. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 763, 355-359	5.7	0

426	High pressure structural and magnetic studies of LaFe <sub>12</sub> B <sub>6</sub> . <i>Solid State Communications</i> , <b>2017</b> , 252, 29-32.6	3.2	9
425	Low-dimensional magnetic properties of orthorhombic MnV <sub>2</sub> O <sub>6</sub> : A nonstandard structure stabilized at high pressure. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8
424	W <sub>3</sub> CoB <sub>3</sub> -type {Y, Gd - Ho} <sub>3</sub> Co <sub>4</sub> Al <sub>x</sub> (x=0.5-1) rare earth compounds: Specific features of crystal structure and magnetic ordering. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 251, 33-42	3.3	4
423	Composite magnetic powder of Ni <sub>3</sub> Fe/Fe <sub>3</sub> O <sub>4</sub> type obtained from Fe/NiO/Fe <sub>2</sub> O <sub>3</sub> mixtures by mechanosynthesis and annealing. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 484-492	5.7	1
422	Characterisation of the Fe-10 wt% Si nanocrystalline powder obtained by mechanical alloying and annealing. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 441, 455-464	2.8	4
421	Hydrogen dynamics in the hexagonal Ho <sub>2</sub> Fe <sub>17</sub> H <sub>4</sub> and Y <sub>2</sub> Fe <sub>17</sub> H <sub>4.2</sub> : Inelastic and quasielastic neutron scattering studies. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 720, 277-283	5.7	2
420	Structural, electronic and magnetic properties of the Mn <sub>54</sub> Al <sub>46</sub> Ti <sub>x</sub> (x=2; 4) alloys. <i>Intermetallics</i> , <b>2017</b> , 82, 101-106	3.5	12
419	Influence of microstructure on the interphase exchange coupling of Nd <sub>2</sub> Fe <sub>14</sub> B'+10'wt%Fe nanocomposites obtained at different milling energies. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 697, 19-24	5.7	5
418	High field induced magnetic transitions in the Y <sub>0.7</sub> Er <sub>0.3</sub> Fe <sub>2</sub> D <sub>4.2</sub> deuteride. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	7
417	Dimensioning and shaping of inductors for power converters. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , <b>2017</b> , 27, 98-105	0.4	
416	Influence of Cu Doping on the Electronic Structure and Magnetic Properties of the Mn <sub>2</sub> VAl Heusler Compound. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700160	1.3	4
415	Ni-Mn-Sn Heusler: milling and annealing effect on structural and magnetic properties. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 903, 012045	0.3	
414	Effect of Carbon Addition on Magnetic Order in MnAlC Alloys. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-6	2	1
413	Magnetic ordering of Mo <sub>2</sub> NiB <sub>2</sub> -type {Gd, Tb, Dy} <sub>2</sub> Co <sub>2</sub> Al compounds by magnetization and neutron diffraction study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 442, 36-44	2.8	11
412	Study of magnetic, structural and magnetocaloric properties of La <sub>0.6</sub> Pr <sub>0.4</sub> Mn <sub>2</sub> Si <sub>2</sub> under high pressures and magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 424, 416-420	2.8	5
411	Interplay between crystal and magnetic structures in YFe <sub>2</sub> (Hf <sub>1-x</sub> Pr <sub>x</sub> ) <sub>4.2</sub> compounds studied by neutron diffraction. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 245, 98-109	3.3	13
410	A structural and magnetic study of Nd <sub>5</sub> Fe <sub>2</sub> B <sub>6</sub> and Nd <sub>5</sub> Fe <sub>2</sub> B <sub>6</sub> D <sub>4.1</sub> . <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 693, 887-894	5.7	2
409	Magnetic ordering of Hf <sub>3</sub> Ni <sub>2</sub> Si <sub>3</sub> -type {Sm, Tb, Er} <sub>3</sub> Co <sub>2</sub> Ge <sub>3</sub> and {Tb, Ho} <sub>3</sub> Ni <sub>2</sub> Ge <sub>3</sub> compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 424, 99-107	2.8	

408	Magnetic order of Y <sub>3</sub> NiSi <sub>3</sub> -type R <sub>3</sub> NiSi <sub>3</sub> (R=GdD <sub>Y</sub> ) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 398, 141-147	2.8	5
407	Low dimensional magnetism in MnNb <sub>2</sub> VxO <sub>6</sub> . <i>Materials Research Bulletin</i> , <b>2016</b> , 74, 169-176	5.1	4
406	Ultrasharp magnetization steps in the antiferromagnetic itinerant-electron system LaFe <sub>12</sub> B <sub>6</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	27
405	Low-temperature and high-pressure $\mu$ SR study of the strongly correlated CeNiSnH <sub>x</sub> compounds. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	1
404	Magnetic ordering of YPd <sub>2</sub> Si-type HoNi <sub>2</sub> Si and ErNi <sub>2</sub> Si compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 419, 368-374	2.8	
403	Nanocrystalline/nanosized Fe <sub>3</sub> O <sub>4</sub> obtained by a combined route ceramic-mechanical milling. Effect of milling on the chemical composition, formation of phases and powder characteristics. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 1588-1596	4.6	5
402	Neutron diffraction study of the itinerant-electron metamagnetic Hf <sub>0.825</sub> Ta <sub>0.175</sub> Fe <sub>2</sub> compound. <i>Solid State Communications</i> , <b>2016</b> , 229, 16-21	1.6	9
401	Mechanosynthesis, structural, thermal and magnetic characteristics of oleic acid coated Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 171, 336-345	4.4	16
400	Nanocrystalline/nanosized manganese substituted nickel ferrites [Ni <sub>1-x</sub> Mn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ] obtained by ceramic-mechanical milling route. <i>Ceramics International</i> , <b>2016</b> , 42, 4754-4763	5.1	17
399	Synthesis of amorphous Fe <sub>75</sub> Si <sub>20</sub> MxB <sub>5</sub> (M = Ti, Ta, Zr) via wet mechanical alloying and its structural, thermal and magnetic characterisation. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 461-470	4.6	10
398	Synthesis of nanocrystalline Ni <sub>3</sub> Fe powder by mechanical alloying using an extreme friction mode. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 395-402	4.6	7
397	Structural, electronic and magnetic properties of the Mn <sub>50</sub> Al <sub>46</sub> Ni <sub>4</sub> alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 401, 841-847	2.8	16
396	Electronic structure and magnetic properties of the Fe <sub>16</sub> N <sub>2</sub> doped with Ti. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 420, 75-80	2.8	3
395	Inverse and normal magnetocaloric effects in LaFe <sub>12</sub> B <sub>6</sub> . <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 213904	2.5	20
394	Giant spontaneous magnetization jumps in LaFe <sub>12</sub> B <sub>6</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 108, 132401	3.4	17
393	Preparation and characterisation of CoFeNiM-SiB (M = Zr, Ti) amorphous powders by wet mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 673, 80-85	5.7	22
392	Avalanche-like magnetization process in itinerant-electron system LaFe <sub>12</sub> B <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 953-957	5.7	7
391	Amorphisation of Fe-based alloy via wet mechanical alloying assisted by PCA decomposition. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 183, 83-92	4.4	11

390	Cross over between ferro and antiferromagnetic order in Fe itinerant electron magnetism: An experimental and theoretical study of the model (Hf,Ta)Fe <sub>2</sub> Laves phases. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 643, 239-246	5.7	15
389	Effect of pressure and high magnetic field on phase transitions and magnetic properties of Ni <sub>1.92</sub> Mn <sub>1.56</sub> Sn <sub>0.52</sub> and Ni <sub>2</sub> MnSn Heusler compounds. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 650, 248-255	5.7	15
388	Itinerant-electron metamagnetism of the Hf <sub>1-x</sub> TaxFe <sub>2</sub> (x=0.125 and 0.14) compounds under high pressure. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 395, 251-256	2.8	7
387	Synthesis of the Fe-6.5% wt. Si Alloy by Mechanical Alloying. <i>Advanced Engineering Forum</i> , <b>2015</b> , 13, 109-113	0.13	6
386	Magnetic order of Tb <sub>3</sub> Co <sub>2.2</sub> Si <sub>1.8</sub> and Dy <sub>3</sub> Co <sub>2.2</sub> Si <sub>1.8</sub> as a representative of the family of compounds with orthorhombic distortion of rare earth lattice. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 389, 157-168	2.8	2
385	Oxidation Mechanism of Aluminum Nanopowders. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25063-25070	0.8	33
384	Spontaneous Magneto-Impedance in YCo <sub>12</sub> B <sub>6</sub> and GdCo <sub>12</sub> B <sub>6</sub> Intermetallic Compounds. <i>IEEE Magnetics Letters</i> , <b>2015</b> , 6, 1-4	1.6	4
383	Nanocrystalline/Nanosized Fe <sub>3</sub> O <sub>4</sub> Powder Obtained by Mechano-synthesis. <i>Advanced Engineering Forum</i> , <b>2015</b> , 13, 9-14	0.2	1
382	Structural, thermal and magnetic characteristics of Fe <sub>3</sub> O <sub>4</sub> /Ni <sub>3</sub> Fe composite powder obtained by mechano-synthesis-annealing route. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 652, 313-321	5.7	6
381	Magnetic order and crystal structure study of YNi <sub>4</sub> Si-type NdNi <sub>4</sub> Si. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 222, 123-128	3.3	6
380	Influence of Al on the magnetic properties of TmCo <sub>4</sub> Al compound, a magnetic and neutron diffraction study. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 626, 70-75	5.7	1
379	Spin reorientation and magnetic structure of HoCo <sub>12</sub> B <sub>6</sub> ferrimagnetic compound. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 026004	1.8	4
378	Structural, magnetic and thermal characterization of amorphous FINEMET powders prepared by wet mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 626, 49-55	5.7	18
377	Structural and magnetic characteristics of Co-based amorphous powders prepared by wet mechanical alloying. <i>Advanced Powder Technology</i> , <b>2015</b> , 26, 323-328	4.6	13
376	Structural, hyperfine and Raman properties of RE <sub>2</sub> FeSbO <sub>7</sub> compounds. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 618, 635-642	5.7	3
375	Effect of Process Control Agents on the FeSiB Powder Amorphisation by Wet Mechanical Alloying. <i>Advanced Engineering Forum</i> , <b>2015</b> , 13, 37-41	0.2	1
374	The influence of milling and annealing conditions on the structural and magnetic behavior of Nd <sub>2</sub> Fe <sub>14</sub> B/Fe hard/soft magnetic nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 646, 859-865	5.7	11
373	Effect of Milling Conditions on the Microstructure and Interphase Exchange Coupling of Nd <sub>2</sub> Fe <sub>14</sub> B/Fe Nanocomposites. <i>Physics Procedia</i> , <b>2015</b> , 75, 1314-1323		5

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365	Synthesis of the Fe-10%Si Nanocrystalline Powder by Mechanical Alloying. <i>Solid State Phenomena</i> , <b>2014</b> , 216, 283-287	0-4	4
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356	Synthesis of Fe <sub>3</sub> O <sub>4</sub> /Fe nanocomposite powder from Fe <sub>2</sub> O <sub>3</sub> and Fe powder by mechanochemical synthesis. Structural, thermal and magnetic characterisation. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 608, 54-59	5-7	13
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353	Preparation and Characterization of Amorphous Soft Magnetic FeSiB Powders and Spark Plasma Sintered Compacts. <i>Solid State Phenomena</i> , <b>2014</b> , 216, 163-168	0.4	
352	Nanocrystalline/Nanosized Mixed Nickel-Manganese Ferrites Obtained by Mechanical Milling. <i>Solid State Phenomena</i> , <b>2014</b> , 216, 243-248	0.4	
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259	Antiferromagnetic order in (Lu <sub>0.8</sub> Ce <sub>0.2</sub> ) <sub>2</sub> Fe <sub>17</sub> and Lu <sub>2</sub> Fe <sub>16.5</sub> Ru <sub>0.5</sub> : High pressure study. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07A747	2.5	16
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36	Magnetic properties of the R <sub>2</sub> Fe <sub>17</sub> Hx series. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 231, 188-194	5-7	22
35	Role of the (H,C,N) interstitial elements on the magnetic properties of iron-rare earth permanent magnet alloys. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 219, 16-24	5-7	35
34	Neutron-diffraction study of the insertion scheme of hydrogen in Nd <sub>2</sub> Fe <sub>14</sub> B. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 1892-1898	2.5	64
33	High field magnetization measurements of Sm <sub>2</sub> Fe <sub>17</sub> , Sm <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> , Sm <sub>2</sub> Fe <sub>17</sub> D <sub>5</sub> , and Pr <sub>2</sub> Fe <sub>17</sub> , Pr <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> (invited). <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 5988-5993	2.5	39
32	High field magnetization measurements of Sm <sub>2</sub> Fe <sub>17</sub> , Sm <sub>2</sub> Fe <sub>17</sub> Cx, and Sm <sub>2</sub> Fe <sub>17</sub> CxH <sub>5</sub> . <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 6035-6037	2.5	10
31	Magnetic study of the Ce <sub>2</sub> Fe <sub>17</sub> Hx compounds: Magnetic circular x-ray dichroism, x-ray-absorption near-edge structure, magnetization, and diffraction results. <i>Physical Review B</i> , <b>1994</b> , 49, 15692-15701	3-3	73

30	Magnetic properties of fully nitrogenated R <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> (R = Ce, Nd, Pr). <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 131, 76-82	2.8	12
29	<sup>155</sup> Gd Mössbauer spectroscopy study of the Gd <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> system. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 131, 83-89	2.8	30
28	A structural analysis and some magnetic properties of the R <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> series. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 137, 151-156	2.8	67
27	Magnetism in Fe-based intermetallics: relationships between local environments and local magnetic moments. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 205, 1-15	5.7	84
26	R <sub>2</sub> Fe <sub>17</sub> and RM <sub>12</sub> carbide and carbonitride synthesis from heavy hydrocarbon compounds. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 203, 157-163	5.7	14
25	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 4969-4971	2	7
24	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 604-606	2	7
23	Modulation of spin reorientation transitions in the series R(Fe, M) <sub>12</sub> X <sub>y</sub> (R ? Y, Nd, Ho; M ? Mo, Ti; X ? N, H). <i>Journal of Alloys and Compounds</i> , <b>1993</b> , 191, 233-238	5.7	23
22	Structural study and magnetic characterization of Th <sub>2</sub> Fe <sub>17</sub> D <sub>5</sub> , Th <sub>2</sub> Fe <sub>17</sub> C <sub>x</sub> H <sub>5-x</sub> and Th <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, 5481-5490	1.8	19
21	Crystal Structure and Microstructure Analysis of Alloys Zr(Mn <sub>1-x</sub> M <sub>x</sub> ) <sub>2</sub> H <sub>y</sub> , with M = V, Fe, Co, Ni, Al and their Hydrides*. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>1993</b> , 179, 187-198	3.1	15
20	A neutron diffraction and Mössbauer effect study of the Nd <sub>2</sub> Fe <sub>17</sub> Six solid solutions. <i>Solid State Communications</i> , <b>1993</b> , 88, 761-764	1.6	86
19	Magnetic characterisation of the ternary carbide ThFe <sub>11</sub> C <sub>x</sub> (1.5 ≤ x) by <sup>57</sup> Fe Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , <b>1993</b> , 77, 221-234	0.8	12
18	Magnetic characterization and structural study of new ternary carbides: ThFe <sub>11</sub> C <sub>x</sub> (1.5. <i>Journal of Physics Condensed Matter</i> , <b>1992</b> , 4, 6367-6374	1.8	18
17	Neutron powder-diffraction study of Pr <sub>2</sub> Fe <sub>17</sub> and Pr <sub>2</sub> Fe <sub>17</sub> N <sub>2.9</sub> . <i>Physical Review B</i> , <b>1992</b> , 45, 2920-2926	3.3	74
16	Nitrogen gas pressure synthesis and neutron diffraction study of R <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> with R?Ce and Nd. <i>Journal of Alloys and Compounds</i> , <b>1992</b> , 190, 129-135	5.7	31
15	Coercivity in hydrogen-decrepitated Sm <sub>2</sub> Co <sub>17</sub> -type compounds. <i>Journal of Alloys and Compounds</i> , <b>1992</b> , 178, 23-28	5.7	7
14	On the structural and magnetic properties of the new ternary nitride series R <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> . <i>Journal of Alloys and Compounds</i> , <b>1992</b> , 178, 15-22	5.7	16
13	Structural and magnetic behaviour of the series Th <sub>2</sub> Fe <sub>17</sub> C <sub>x</sub> (x=0 to 1.25). <i>Journal of Alloys and Compounds</i> , <b>1992</b> , 186, 135-145	5.7	23

12	Neutron powder diffraction study of R <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> compounds with R = Pr and Nd. <i>Solid State Communications</i> , <b>1992</b> , 81, 13-19	1.6	48
11	Neutron powder diffraction study of the reaction of Nd <sub>2</sub> Fe <sub>17</sub> compound with nitrogen gas. <i>Physica B: Condensed Matter</i> , <b>1992</b> , 180-181, 624-626	2.8	22
10	Neutron powder diffraction study of the desorption of deuterium in Nd <sub>2</sub> Fe <sub>17</sub> D <sub>x</sub> . <i>Physica B: Condensed Matter</i> , <b>1992</b> , 180-181, 629-631	2.8	37
9	Effects of interstitial elements in iron-rare earth alloys. <i>Physica B: Condensed Matter</i> , <b>1992</b> , 180-181, 632-634	2.8	3
8	Magnetization properties of RE <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> compounds: RE = Nd, Ce, Ho. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 103, 157-164	2.8	48
7	Detection of hydrogen-induced effects in Ce <sub>2</sub> Fe <sub>14</sub> BH <sub>x</sub> and Ce <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> permanent magnets by LIII absorption edge of cerium. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 1171-1172	2.8	29
6	Structural, $\mu$ c susceptibility and high magnetic field characterization of the new hard magnetic nitrides R <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 2003-2005	2.8	4
5	Systematic magnetic ac susceptibility study of (RE) <sub>2</sub> Fe <sub>14</sub> BH <sub>x</sub> and (RE) <sub>2</sub> Fe <sub>14</sub> CH <sub>x</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 101, 372-374	2.8	10
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3	Hydrogenation, crystal structure and magnetic ordering of R <sub>2</sub> Fe <sub>14</sub> C (R ? Sm, Er, Tm). <i>Journal of the Less Common Metals</i> , <b>1991</b> , 168, 321-328		10
2	Structural and magnetic properties of ternary nitrides R <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> (R ? Nd, Sm). <i>Journal of the Less Common Metals</i> , <b>1991</b> , 171, 51-61		95
1	Neutron diffraction study of the structural and magnetic properties of the R <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> (D <sub>x</sub> ) ternary compounds (R ? Ce, Nd and Ho). <i>Journal of the Less Common Metals</i> , <b>1990</b> , 162, 273-284		136