

# Elzbieta Jartych

## List of Publications by Year in descending order

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70  
papers

1,119  
citations

471509

17  
h-index

454955

30  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1085  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of goethite and goethite-hematite composite: experimental study and literature survey. <i>Advances in Colloid and Interface Science</i> , 2003, 103, 57-76.	14.7	94
2	Antiferromagnetic spin glass-like behavior in sintered multiferroic Aurivillius $\text{Bi}_{1-x}\text{Ti}_3\text{Fe}_{1-x}\text{O}_{10}$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 342, 27-34.	2.3	75
3	X-ray diffraction, magnetization and Mössbauer studies of nanocrystalline Fe-Ni alloys prepared by low- and high-energy ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 208, 221-230.	2.3	73
4	Structure and some magnetic properties of mechanically synthesized and thermally treated $\text{Co}_{1-x}\text{Fe}_x\text{Ni}$ alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 413-420.	2.3	53
5	Magnetoelectric Effect in Ceramics Based on Bismuth Ferrite. <i>Nanoscale Research Letters</i> , 2016, 11, 234.	5.7	46
6	Magnetic properties and structure of nanocrystalline Fe-Al and Fe-Ni alloys. <i>Scripta Materialia</i> , 1999, 42, 927-930.	0.5	39
7	Hyperfine interactions in nanocrystalline Fe-Al alloys. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 4929-4936.	1.8	38
8	Local atomic order in nanocrystalline Fe-based alloys obtained by mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 265, 176-188.	2.3	37
9	On the synthesis and cation distribution of aluminum-substituted spinel-related lithium ferrite. <i>Materials Letters</i> , 2005, 59, 1105-1109.	2.6	33
10	Hyperfine interactions in some Aurivillius $\text{Bi}_{1-x}\text{Ti}_3\text{Fe}_x\text{O}_{10}$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 51-55.	2.3	33
11	On the magnetic properties of mechanosynthesized $\text{Co}_{1-x}\text{Fe}_x\text{Ni}$ ternary alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 209-216.	2.3	30
12	Magnetic properties and magnetoelectric coupling enhancement in $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ ceramics. <i>Ceramics International</i> , 2017, 43, 11442-11449.	4.8	30
13	Structural and magnetic study of mechanically alloyed Fe-Ni. <i>Scripta Materialia</i> , 1999, 41, 789-796.	0.5	28
14	Magnetic properties and structure of nanocrystalline $\text{Fe}_{70}\text{Al}_{30}$ alloy prepared by mechanosynthesis. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 186, 299-305.	2.3	27
15	Structural and magnetic study of crystalline $\text{Fe}_{80}\text{Ni}_{20}$ alloys with nanometer-sized grains. <i>Journal of Non-Crystalline Solids</i> , 1999, 250-252, 757-761.	3.1	21
16	Surface morphology and local magnetic properties of electrodeposited thin iron layers. <i>Applied Surface Science</i> , 2001, 180, 246-254.	6.1	20
17	Structure and hyperfine interactions in $\text{Bi}_{1-x}\text{Nd}_x\text{FeO}_3$ solid solutions prepared by solid-state sintering. <i>Journal of Alloys and Compounds</i> , 2014, 606, 1-6.	5.5	19
18	Mössbauer and X-ray diffraction studies of mechanically alloyed Fe-Al. <i>Hyperfine Interactions</i> , 1996, 99, 389-399.	0.5	18

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19	A Mossbauer study of electrodeposited Fe <sub>1-x</sub> Co <sub>x</sub> alloys. Journal of Physics Condensed Matter, 1993, 5, 927-934.	1.8	17
20	Evolution of mechanical properties in tool steel implanted with high energy nitrogen ions. Vacuum, 2001, 63, 737-742.	3.5	17
21	Structure and hyperfine interactions in mechanosynthesized iron-molybdenum alloys. Journal of Alloys and Compounds, 2002, 337, 69-75.	5.5	17
22	X-Ray Diffraction, Mössbauer Spectroscopy, and Magnetoelectric Effect Studies of Multiferroic Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> Ceramics. Acta Physica Polonica A, 2015, 127, 296-299.	0.5	17
23	Structure and magnetic properties of mechanosynthesized iron-tungsten alloys. Journal of Magnetism and Magnetic Materials, 2000, 218, 247-255.	2.3	16
24	Influence of the electrodeposition parameters on surface morphology and local magnetic properties of thin iron layers. Applied Surface Science, 2002, 193, 210-216.	6.1	16
25	Structure and hyperfine interactions of Bi <sub>9</sub> Ti <sub>3</sub> Fe <sub>5</sub> O <sub>27</sub> multiferroic ceramic prepared by sintering and mechanical alloying methods. Journal of Non-Crystalline Solids, 2010, 356, 1994-1997.	3.1	16
26	Hyperfine Interactions in Amorphous Fe-Nb Alloys Prepared by Mechanical Alloying. Hyperfine Interactions, 2001, 136, 25-33.	0.5	15
27	Preparation of thin iron films by electrodeposition and characterization of their local magnetic properties. Materials Chemistry and Physics, 2001, 72, 356-359.	4.0	15
28	Synthesis and cation distribution of copper-substituted spinel-related lithium ferrite. Journal of Physics and Chemistry of Solids, 2006, 67, 1817-1822.	4.0	15
29	Structural transformations in graphite induced by magneto-mechanical-milling in hydrogen atmosphere. Journal of Alloys and Compounds, 2005, 402, 256-262.	5.5	13
30	Mössbauer study of nanocrystalline Co <sub>60</sub> Fe <sub>30</sub> Ni <sub>10</sub> and Co <sub>50</sub> Fe <sub>35</sub> Ni <sub>15</sub> alloys obtained during mechanical synthesis. Journal of Non-Crystalline Solids, 2008, 354, 4267-4270.	3.1	12
31	Hyperfine interactions, structure and magnetic properties of nanocrystalline Co-Fe-Ni alloys prepared by mechanical alloying. Hyperfine Interactions, 2007, 168, 989-994.	0.5	11
32	Comparative X-ray diffraction and Mössbauer spectroscopy studies of BiFeO <sub>3</sub> ceramics prepared by conventional solid-state reaction and mechanical activation. Materials Science-Poland, 2013, 31, 211-220.	1.0	10
33	Hyperfine interactions in electrodeposited Fe <sub>x</sub> Ni <sub>1-x</sub> alloys. Hyperfine Interactions, 1992, 73, 255-264.	0.5	9
34	A Mossbauer spectroscopy study of electrodeposited (Co <sub>x</sub> Ni <sub>1-x</sub> ) <sub>1-y</sub> Fe <sub>y</sub> alloys with 0 ≤ x ≤ 1 and y ≤ 0.01. Journal of Physics Condensed Matter, 1993, 5, 8921-8926.	1.8	9
35	Composition-driven structural and magnetic transitions in mechanically activated (1-x)BiFeO <sub>3</sub> -(x)Tj ETQq1 1.0.784314 rgBT / Ov 1.9 9	1.0	9
36	Synthesis and characterization of AgFeO <sub>2</sub> delafossite with non-stoichiometric silver concentration. Nukleonika, 2017, 62, 165-170.	0.8	9

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37	X-ray diffraction and $^{57}\text{Fe}$ Mössbauer spectroscopy studies of delafossite $\text{AgFeO}_2$ prepared by co-precipitation method. <i>Journal of Alloys and Compounds</i> , 2017, 690, 182-188.	5.5	9
38	Structural and magnetic properties of bulk amorphous alloys $\text{Fe-Al-Ga-P-B-Si}$ . <i>Journal of Alloys and Compounds</i> , 2002, 343, 211-216.	5.5	8
39	Structure and magnetic properties of mechanically synthesized nanocrystalline $\text{Co}_{52}\text{Fe}_{26}\text{Ni}_{22}$ alloy. <i>Journal of Materials Science</i> , 2004, 39, 5385-5388.	3.7	8
40	Isoelectric points of fresh and aged $\text{Fe}(\text{OH})_2$ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 326-330.	4.7	8
41	Structure and Magnetic Properties of Nanocrystalline Fe-Mo Alloys Prepared by Mechanochemistry. <i>Acta Physica Polonica A</i> , 2002, 102, 253-258.	0.5	8
42	Structure and some magnetic properties of $(\text{BiFeO}_3)_x(\text{BaTiO}_3)_{1-x}$ solid solutions prepared by solid-state sintering. <i>Nukleonika</i> , 2015, 60, 81-85.	0.8	7
43	Chemical reduction of nitrate by zerovalent iron nanoparticles adsorbed radiation-grafted copolymer matrix. <i>Nukleonika</i> , 2017, 62, 269-275.	0.8	7
44	Mössbauer Study of Mechanochemically Synthesized and Thermally Treated Co-Fe-Ni Alloys. <i>Acta Physica Polonica A</i> , 2008, 114, 1545-1553.	0.5	7
45	Structure, hyperfine interactions and magnetization studies of mechanically alloyed $\text{Fe}_{50}\text{Ge}_{50}$ and $\text{Fe}_{62}\text{Ge}_{38}$ . <i>Journal of Alloys and Compounds</i> , 2005, 400, 23-28.	5.5	6
46	Thermal stability and hyperfine interactions of mechanically alloyed $\text{Fe-Ge}$ phases. <i>Journal of Alloys and Compounds</i> , 2007, 430, 116-122.	5.5	6
47	Structure and Magnetic Properties of $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ Ceramics Prepared by Sintering, Mechanical Activation and Edam Process. A Comparative Study. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 869-874.	0.6	6
48	Effect of annealing temperature on structural properties of the co-precipitated delafossite $\text{AgFeO}_2$ . <i>Materials Research Express</i> , 2019, 6, 086113.	1.6	6
49	Mössbauer Spectroscopy Studies of Fe-Doped $\text{BaTiO}_3$ Ceramics. <i>Acta Physica Polonica A</i> , 2018, 134, 1058-1062.	0.5	6
50	Hyperfine interactions in solid state reaction of hematite with aluminium. , 2000, 128, 495-501.		5
51	A novel radiation-induced grafting methodology to synthesize stable zerovalent iron nanoparticles at ambient atmospheric conditions. <i>Colloid and Polymer Science</i> , 2016, 294, 1557-1569.	2.1	5
52	Compositional dependence of hyperfine interactions and magnetoelectric coupling in $(\text{BiFeO}_3)_x(\text{BaTiO}_3)_{1-x}$ solid solutions. <i>Nukleonika</i> , 2017, 62, 117-122.	0.8	5
53	A comparative study of hyperfine interactions in Aurivillius compounds prepared by mechanical activation and solid-state sintering. <i>Nukleonika</i> , 2017, 62, 153-157.	0.8	5
54	Structure and Hyperfine Interactions of Mechanically Activated Delafossite $\text{CuFeO}_2$ . <i>Acta Physica Polonica A</i> , 2018, 133, 372-375.	0.5	5

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55	Structure and Mössbauer Spectroscopy Studies of Multiferroic Mechanically Activated Aurivillius Compounds. Acta Physica Polonica A, 2014, 126, 975-978.	0.5	4
56	Mössbauer Spectroscopy Studies of Multiferroic (BiFeO <sub>3</sub> ) <sub>1-x</sub> -(BaTiO <sub>3</sub> ) <sub>x</sub> Solid Solutions Prepared by Mechanical Activation. Acta Physica Polonica A, 2014, 125, 837-839.	0.5	4
57	Mössbauer Spectroscopy and Magnetoelectric Effect Studies of Multiferroic Ceramics Based on BiFeO <sub>3</sub> . Key Engineering Materials, 0, 602-603, 936-941.	0.4	4
58	Magnetoelectric effect in (BiFeO <sub>3</sub> ) <sub>x</sub> -(BaTiO <sub>3</sub> ) <sub>1-x</sub> solid solutions. Materials Science-Poland, 2015, 33, 107-112.	1.0	4
59	Magnetic and magnetoelectric properties of Bi <sub>0.5</sub> Nd <sub>0.5</sub> FeO <sub>3</sub> ceramics. Ceramics International, 2020, 46, 1804-1809.	4.8	4
60	Structure and Hyperfine Interactions of Fe-Doped ZnO Powder Prepared by Co-Precipitation Method. Acta Physica Polonica A, 2018, 134, 1048-1052.	0.5	4
61	Structure and hyperfine interactions of mechanically synthesized Co-Fe-Ni alloys. Journal of Alloys and Compounds, 2009, 483, 582-584.	5.5	3
62	Hyperfine interactions in mechanosynthesized and thermally treated Co-Fe-Ni alloys. Journal of Physics: Conference Series, 2010, 217, 012082.	0.4	3
63	X-ray diffraction and Mössbauer spectroscopy studies of a mechanosynthesized Fe <sub>75</sub> B <sub>25</sub> alloy. Nukleonika, 2015, 60, 43-46.	0.8	3
64	Effect of BaTiO <sub>3</sub> concentration on structural and magnetic properties of mechanically activated BiFeO <sub>3</sub> -BaTiO <sub>3</sub> system. Nukleonika, 2017, 62, 149-152.	0.8	3
65	Hydrogen-induced phase transformations in nanostructured graphite made by controlled ball milling. Vacuum, 2005, 78, 347-351.	3.5	2
66	Crystal structure and hyperfine interactions of delafossite (CuFeO <sub>2</sub> ) synthesized hydrothermally. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 570-576.	1.1	2
67	Structure and Hyperfine Interactions in Aurivillius Bi <sub>9</sub> Ti <sub>3</sub> Fe <sub>5</sub> O <sub>27</sub> Conventionally Sintered Compound. Acta Physica Polonica A, 2011, 119, 72-74.	0.5	2
68	X-ray diffraction and Mössbauer studies of X <sub>20</sub> Cr <sub>13</sub> steel subjected to ball milling. Hyperfine Interactions, 2009, 192, 117-124.	0.5	1
69	Process of Amorphization Induced by Mechanical Alloying of Iron with Tungsten and Niobium. Acta Physica Polonica A, 2001, 100, 731-736.	0.5	1
70	X-ray Diffraction and <sup>57</sup> Fe Mössbauer Spectroscopy Studies of Co-Doped AgFeO <sub>2</sub> . Acta Physica Polonica A, 2018, 134, 1040-1043.	0.5	1