

# Katarzyna BrzÅ³zka

## List of Publications by Year in descending order

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49  
papers

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citations

1040056

9  
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16  
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docs citations

49  
times ranked

401  
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature oxidation of iron-iron oxide core-shell nanowires composed of iron nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3900-3909.	2.8	42
2	Structural and magnetic properties of iron nanowires and iron nanoparticles fabricated through a reduction reaction. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1652-1660.	2.8	39
3	Mössbauer studies of FeZrB(Cu) amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 160, 255-256.	2.3	20
4	Hyperfine magnetic fields in FeZrB(Cu) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 226-228, 654-658.	5.6	18
5	Impact of thermal oxidation on chemical composition and magnetic properties of iron nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 458, 346-354.	2.3	17
6	Iron-containing phases in metallurgical and coke dusts as well as in bog iron ore. <i>Nukleonika</i> , 2017, 62, 187-195.	0.8	15
7	Effects of surface crystallization and oxidation in nanocrystalline FeNbCuSiB(P) ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 233-237.	2.3	12
8	Classification of Meteorites - Mössbauer Comparative Studies of Three Ordinary Chondrites Measured in Different Laboratories. <i>Acta Physica Polonica A</i> , 2018, 134, 1070-1075.	0.5	12
9	The influence of thermal annealing on structure and oxidation of iron nanowires. <i>Nukleonika</i> , 2015, 60, 87-91.	0.8	10
10	Evolution of the hyperfine and magnetoelastic parameters in the course of crystallization process in niobium-free FINEMET-type alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 250, 83-91.	2.3	9
11	Magnetostriction and other properties of alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 304, e681-e683.	2.3	9
12	Iron-containing phases in fly ashes from different combustion systems. <i>Nukleonika</i> , 2015, 60, 151-154.	0.8	8
13	Nanocomposite composed of multiwall carbon nanotubes covered by hematite nanoparticles as anode material for Li-ion batteries. <i>Electrochimica Acta</i> , 2017, 228, 82-90.	5.2	8
14	Mössbauer Study of Magnetic Texture of Finemet-Type Ribbons. <i>Acta Physica Polonica A</i> , 2011, 119, 33-36.	0.5	8
15	Analysis of surface layers and wear products by Mössbauer spectral analysis. <i>Wear</i> , 2013, 297, 958-965.	3.1	7
16	Iron speciation in coal fly ashes – chemical and Mössbauer analysis. <i>Hyperfine Interactions</i> , 2014, 226, 483-487.	0.5	7
17	Comparison of Magnetic and Mössbauer Results Obtained for Palaeozoic Rocks of Hornsund, Southern Spitsbergen, Arctic. <i>Acta Physica Polonica A</i> , 2008, 114, 1675-1682.	0.5	6
18	Evolution of Mössbauer spectra with nanocrystallite content in Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>15.5</sub> B <sub>7</sub> alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 481-482.	2.3	5

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19	Mössbauer and magnetoelastic investigations of the surface effects in Fe <sub>72</sub> Cu <sub>1.5</sub> Nb <sub>4</sub> Si <sub>13.5</sub> B <sub>9</sub> nanocrystalline alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1443-1444.	2.3	5
20	Interface influence on the properties of Co <sub>90</sub> Fe <sub>10</sub> films on soft magnetic underlayers – Magnetostrictive and Mössbauer spectrometry studies. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 943-948.	2.3	5
21	Local Structure and Magnetic Characteristics of FINEMET Alloys Substituted by Vanadium. <i>Acta Physica Polonica A</i> , 2008, 113, 51-54.	0.5	5
22	Structural and Magnetic Ordering in Fe-Ga Thin Films Examined by Mössbauer Spectrometry. <i>Acta Physica Polonica A</i> , 2011, 119, 21-23.	0.5	5
23	Structural evolution of ball-milled permalloy. <i>Hyperfine Interactions</i> , 2007, 168, 1091-1096.	0.5	4
24	Microstructural Study of Fe-Si(Ge)-Nb-Cu-B Finemet Alloys. <i>Acta Physica Polonica A</i> , 2010, 118, 818-819.	0.5	4
25	Examination of Phases in Milled Fe-Ni Alloys by Mössbauer Spectrometry. <i>European Physical Journal D</i> , 2004, 54, 145-148.	0.4	3
26	Changes in structure and magnetic hyperfine fields of Finemet alloys, induced by transition elements substitution. <i>Hyperfine Interactions</i> , 2008, 183, 235-241.	0.5	3
27	The method of invariants in <sup>57</sup> Fe Mössbauer spectroscopy on selected examples. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012010.	0.4	3
28	Magnetic Phase Transition of Amorphous Alloys FeNiSiB. <i>Acta Physica Polonica A</i> , 1994, 85, 195-199.	0.5	3
29	Microscopic Properties of <sup>57</sup> FeMn Studied by Mössbauer Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 124708.	1.6	2
30	Magnetism and Structure Evolution in Ni-Zn Ferrites Thin Films - CEMS Study. <i>Acta Physica Polonica A</i> , 2017, 131, 836-838.	0.5	2
31	Critical behaviour of Fe and Ni by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 1988, 42, 1083-1086.	0.5	1
32	Influence of chemical disorder on the critical behaviour of FeNi-based amorphous ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 157-158, 167-168.	2.3	1
33	Mössbauer Spectroscopy Temperature Investigations of Fe-Si-Cu-Nb-B Powder. <i>European Physical Journal D</i> , 2004, 54, 193-196.	0.4	1
34	The influence of surface layer nitriding on phase composition and tribological properties of cast steel. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012070.	0.4	1
35	Mössbauer spectroscopy as a useful method for distinguishing between real and false meteorites. <i>Hyperfine Interactions</i> , 2019, 240, 1.	0.5	1
36	Evolution of Structural and Magnetic Properties of Fe-Co Wire-like Nanochains Caused by Annealing Atmosphere. <i>Materials</i> , 2021, 14, 4748.	2.9	1

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37	Phase Analysis of Magnetic Inclusions in Nanomaterials Based on Multiwall Carbon Nanotubes. Acta Physica Polonica A, 2017, 131, 863-865.	0.5	1
38	Influence of Milling and Compaction Processes on Magnetic Properties of FeCo Powder. Acta Physica Polonica A, 2009, 115, 403-405.	0.5	1
39	The glass-like structure of iron-nickel nanochains produced by the magnetic-field-induced reduction reaction with sodium borohydride. Physical Chemistry Chemical Physics, 2021, 24, 326-335.	2.8	1
40	Mössbauer studies of amorphous ferromagnets FeNiSiB near T <sub>c</sub> . Hyperfine Interactions, 1990, 59, 365-368.	0.5	0
41	Mössbauer study on the magnetic phase transition in Co. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1529-1530.	2.3	0
42	Mössbauer and Magnetic Study of Fe+Vitroperm+Plastic System. Acta Physica Polonica A, 2014, 126, 148-149.	0.5	0
43	Hyperfine magnetic fields in substituted Finemet alloys. Hyperfine Interactions, 2016, 237, 1.	0.5	0
44	Modeling of Magnetic Hyperfine Field Distribution for Spherical Nanoparticles of bcc Structure. Acta Physica Polonica A, 2008, 113, 537-540.	0.5	0
45	Finemet Thin Films Substituted by Chromium - CEMS and MOKE Study. Acta Physica Polonica A, 2010, 118, 794-796.	0.5	0
46	Phase Composition of the Surface Zone of Nitrided Cast Steels and Their Mechanical Properties. Acta Physica Polonica A, 2011, 119, 28-32.	0.5	0
47	Phase Composition and Magnetic Properties of Nanoperm Thin Films Doped with Yttrium. Acta Physica Polonica A, 2012, 121, 1270-1272.	0.5	0
48	Phase Evolution of Iron Nanoparticles Subjected to Thermal Treatment. Acta Physica Polonica A, 2018, 134, 1015-1020.	0.5	0
49	Spin Relaxation Effects in Oil-Nanomagnetite Ferrofluids - Mössbauer Spectrometry Studies. Acta Physica Polonica A, 2018, 134, 1007-1014.	0.5	0