

# Izabela M Sosnowska

## List of Publications by Year in descending order

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115  
papers

5,309  
citations

201674

27  
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82547

72  
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115  
all docs

115  
docs citations

115  
times ranked

4020  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiral magnetic ordering in bismuth ferrite. Journal of Physics C: Solid State Physics, 1982, 15, 4835-4846.	1.5	1,507
2	Temperature dependence of the crystal and magnetic structures of BiFeO <sub>3</sub> . Journal of Physics C: Solid State Physics, 1980, 13, 1931-1940.	1.5	935
3	Crystal structure and spiral magnetic ordering of BiFeO <sub>3</sub> doped with manganese. Applied Physics A: Materials Science and Processing, 2002, 74, s1040-s1042.	2.3	293
4	Origin of the long period magnetic ordering in BiFeO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 167-168.	2.3	179
5	Atomic displacements in BiFeO <sub>3</sub> as a function of temperature: neutron diffraction study. Acta Crystallographica Section B: Structural Science, 2007, 63, 537-544.	1.8	163
6	Investigation of the unusual magnetic spiral arrangement in BiFeO <sub>3</sub> . Physica B: Condensed Matter, 1992, 180-181, 117-118.	2.7	146
7	Neutron diffraction studies of the crystal and magnetic structures of BiFeO <sub>3</sub> and Bi <sub>0.93</sub> La <sub>0.07</sub> FeO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 1996, 160, 384-385.	2.3	132
8	The motions of hydrogen impurities in $\hat{\Gamma}_2$ -Palladium-hydride. Journal of Physics and Chemistry of Solids, 1976, 37, 1135-1139.	4.0	112
9	Spin reorientation and structural changes in NdFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2005, 17, 4605-4614.	1.8	110
10	Neutron diffraction study of the magnetic structure of $\hat{\Gamma}_2$ -Mn <sub>2</sub> O <sub>3</sub> . Journal of Alloys and Compounds, 2004, 362, 236-240.	5.5	88
11	BiFeO <sub>3</sub> Crystal Structure at Low Temperatures. Acta Physica Polonica A, 2010, 117, 296-301.	0.5	81
12	Search for new modulations in the BiFeO <sub>3</sub> structure: SR diffraction and Mössbauer studies. Solid State Communications, 2006, 140, 359-363.	1.9	80
13	Single-crystal neutron diffraction study of Nd magnetic ordering in NdFeO <sub>3</sub> at low temperature. Physical Review B, 1997, 55, 11432-11441.	3.2	79
14	Crystal and Magnetic Structure in Co-Substituted BiFeO <sub>3</sub> . Inorganic Chemistry, 2013, 52, 13269-13277.	4.0	71
15	Does the modulated magnetic structure of BiFeO <sub>3</sub> change at low temperatures?. Journal of Physics Condensed Matter, 2006, 18, 2069-2075.	1.8	61
16	Low-temperature evolution of the modulated magnetic structure in the ferroelectric antiferromagnet BiFeO <sub>3</sub> . Physical Review B, 2011, 84, .	3.2	55
17	Phase coexistence in the charge ordering transition in CaMn <sub>7</sub> O <sub>12</sub> . Journal of Physics Condensed Matter, 2002, 14, 5747-5753.	1.8	52
18	Thermal neutron scattering from a hydrogen-metal system in terms of a general multi-sublattice jump diffusion model. Journal of Physics and Chemistry of Solids, 1977, 38, 741-746.	4.0	50

#	ARTICLE	IF	CITATIONS
19	Magnetic ordering in the manganese perovskite CaMn <sub>7</sub> O <sub>12</sub> . Solid State Communications, 1999, 111, 687-692.	1.9	48
20	Charge ordering and anisotropic thermal expansion of the manganese perovskite CaMn <sub>7</sub> O <sub>12</sub> . Physica B: Condensed Matter, 2004, 344, 358-367.	2.7	47
21	Debye-Waller factor and thermal expansion of arsenic, antimony and bismuth. Journal of Physics C: Solid State Physics, 1978, 11, 1043-1051.	1.5	45
22	Modulation in Multiferroic BiFeO <sub>3</sub> : Cycloidal, Elliptical or SDW?. Journal of the Physical Society of Japan, 2006, 75, 084718.	1.6	37
23	Molecular fields in Gd <sub>2</sub> Fe <sub>14</sub> B determined from inelastic neutron scattering. Journal of Applied Physics, 1991, 69, 5593-5595.	2.5	33
24	Possible deuterium positions in the high-temperature deuterated proton conductor Ba <sub>3</sub> Ca <sub>1+y</sub> Nb <sub>2</sub> âˆ™yO <sub>9</sub> âˆ™Î studied by neutron and X-ray powder diffraction. Journal of Alloys and Compounds, 2001, 328, 226-230.	5.5	33
25	Modulation of atomic positions in CaCu <sub>x</sub> Mn <sub>7</sub> âˆ™xO <sub>12</sub> (x = 0.1). Acta Crystallographica Section B: Structural Science, 2009, 65, 535-542.	1.8	32
26	Magnetic moment ordering of Nd <sup>3+</sup> ions in NdFeO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 2153-2154.	2.3	31
27	Ground-state multiplet of rare-earth 3+ ions in R <sub>2</sub> Fe <sub>14</sub> B investigated by inelastic neutron scattering. Physical Review B, 1990, 42, 3866-3876.	3.2	29
28	Exchange and crystal fields in R <sub>2</sub> Fe <sub>14</sub> B studied by inelastic neutron scattering (invited). Journal of Applied Physics, 1991, 70, 5967-5971.	2.5	27
29	Anisotropic Diffusion of Hydrogen in Niobium Single Crystals. Physical Review Letters, 1971, 27, 1576-1577.	7.8	26
30	Neutron scattering studies of BiFeO <sub>3</sub> multiferroics: a review for microscopists. Journal of Microscopy, 2009, 236, 109-114.	1.8	26
31	Searching for the Magnetic Spiral Arrangement in Bi <sub>0.7</sub> La <sub>0.3</sub> FeO <sub>3</sub> . Materials Science Forum, 1993, 133-136, 683-686.	0.3	25
32	Helical screw type magnetic structure of the multiferroic CaMn <sub>7</sub> O <sub>12</sub> with low Cu-doping. Acta Crystallographica Section B: Structural Science, 2012, 68, 240-249.	1.8	25
33	Reorientation phase transition in NdFeO <sub>3</sub> . Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 136, 394-396.	0.9	25
34	Incommensurate magnetic structure of R <sub>2</sub> MnO <sub>2</sub> . Physical Review B, 2003, 68, .	3.2	24
35	Investigations of crystal and magnetic structure of BiMn <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> . Physica B: Condensed Matter, 2000, 276-278, 576-577.	2.7	23
36	Monoclinic Deformation of Crystal Lattice of Bulk BiFeO <sub>3</sub> : High Resolution Synchrotron Radiation Studies. Journal of the Physical Society of Japan, 2012, 81, 044604.	1.6	23

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37	Short and Long Range Magnetic Ordering in $\hat{\Gamma}^2$ -MnO <sub>2</sub> "A Temperature Study". Journal of the Physical Society of Japan, 2004, 73, 3444-3447.	1.6	22
38	Magnetic moment ordering of Nd <sup>3+</sup> and Fe <sup>3+</sup> in NdFeO <sub>3</sub> at low temperature. Journal of Magnetism and Magnetic Materials, 1996, 160, 370-371.	2.3	21
39	Structural and magnetic modulations in CaCu <sub>2</sub> Mn <sub>7</sub> O <sub>12</sub> . Journal of Physics Condensed Matter, 2010, 22, 186001.	1.8	21
40	Investigation of Crystal and Magnetic Structure of BiFeO <sub>3</sub> Using Neutron Diffraction. Acta Physica Polonica A, 1994, 86, 629-631.	0.5	21
41	Refinement of the crystal and magnetic structure of PrFeO <sub>3</sub> AT T = 8 K. Journal of the Less Common Metals, 1985, 111, 109-111.	0.8	19
42	Crystal field excitations of NdFeO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 2151-2152.	2.3	19
43	Polymorphism of LiNH <sub>4</sub> SO <sub>4</sub> single crystals. Solid State Communications, 1990, 74, 1249-1251.	1.9	18
44	SANS study of magnetic phase transitions in CaMn <sub>7</sub> O <sub>12</sub> . Physica B: Condensed Matter, 2000, 276-278, 547-548.	2.7	18
45	Phase coexistence in solid solutions. Journal of Solid State Chemistry, 2006, 179, 2443-2451.	2.9	18
46	Nuclear ordering and excitations in. Journal of Magnetism and Magnetic Materials, 2006, 305, 186-190.	2.3	17
47	Monoclinic deformation of the crystal lattice of hematite $\hat{\Gamma}^{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> . Physica B: Condensed Matter, 2014, 449, 72-76.	2.7	17
48	Ac susceptibility of NdFeO <sub>3</sub> in the spin reorientation region. Solid State Communications, 1983, 48, 1007-1010.	1.9	16
49	Anomalous thermal expansion in polycrystalline NdFeO <sub>3</sub> studied by SR and X-ray diffraction. Nuclear Instruments & Methods in Physics Research B, 2007, 254, 149-152.	1.4	15
50	Magnetization of Polycrystalline BiFeO <sub>3</sub> in High Magnetic Fields. Journal of the Physical Society of Japan, 2008, 77, 103709.	1.6	15
51	Comments on the unusual magnetic structure of BiFeO <sub>3</sub> . Ferroelectrics, 1988, 79, 127-130.	0.6	14
52	Beats in the Magnetic Modulation of Multiferroic CaMn <sub>7</sub> O <sub>12</sub> . Journal of the Physical Society of Japan, 2012, 81, 094708.	1.6	14
53	Positive and negative monoclinic deformation of corundum-type trigonal crystal structures of $\langle i \rangle M_{23}O_3$ metal oxides. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 660-672.	1.1	13
54	Magnetic order parameter in the perovskite system CaMn <sub>7</sub> O <sub>12</sub> . Applied Physics A: Materials Science and Processing, 2002, 74, s1731-s1733.	2.3	12

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55	Microstructure Evolution and Grain Growth Kinetics in Annealed Nanocrystalline Chromium. Journal of Physical Chemistry C, 2007, 111, 5599-5604.	3.1	12
56	Neutron Diffraction Studies of the Crystal and Magnetic Structures of $\text{BiMn}_{1-x}\text{Fe}_x\text{O}_3$ Solid Solutions. Materials Science Forum, 2001, 378-381, 616-620.	0.3	10
57	A modulated magnetic structure in $\text{CaMn}_7\text{O}_{12}$ . Physica B: Condensed Matter, 1997, 241-243, 730-732.	2.7	9
58	Phase coexistence in annealed $\text{CaMn}_7\text{O}_{12}$ . Solid State Communications, 2003, 126, 485-488.	1.9	9
59	Charge ordering in $\text{CaCu}_x\text{Mn}_{7-x}\text{O}_{12}$ ( $x=0.0$ and $0.1$ ) compounds. Journal of Physics Condensed Matter, 2008, 20, 104239.	1.8	9
60	Lack of a threefold rotation axis in $\text{Fe}_2\text{O}_3$ and $\text{Cr}_2\text{O}_3$ crystals. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 203-208.	1.1	9
61	Magnetic ordering in electrodeposited nanocrystalline chromium particles. Physical Review B, 2002, 66, .	3.2	8
62	Temperature factors of polycrystalline arsenic, antimony and bismuth in the low-temperature range. Journal of Physics C: Solid State Physics, 1975, 8, 1144-1146.	1.5	7
63	Investigation of the atomic arrangement in the high-temperature proton conductor $\text{Ba}_3\text{Ca}_{1.18}\text{Nb}_{1.82}\text{O}_9 \cdot \text{H}_2\text{O}$ . Physica B: Condensed Matter, 1997, 234-236, 937-939.	2.7	7
64	Modulated magnetic ordering in the Cu-doped pseudoperovskite system $\text{CaCu}_x\text{Mn}_{3-x}\text{O}_{12}$ . Journal of Physics Condensed Matter, 2002, 14, 1061-1065.	1.8	7
65	Monoclinic deformation of calcite crystals at ambient conditions. Physica B: Condensed Matter, 2016, 496, 49-56.	2.7	7
66	Thermal neutron scattering from a hydrogen-metal system in terms of a general multi-sublattice jump diffusion model. Journal of Physics and Chemistry of Solids, 1977, 38, 747-750.	4.0	6
67	Neutron diffraction refinement and high resolution X-ray study of crystal structure of $\text{LiNd}_4\text{SO}_4$ (DLAS). Physica B: Condensed Matter, 1989, 156-157, 118-120.	2.7	6
68	Structure and dynamics of the opal silica-water system. Physica B: Condensed Matter, 1997, 234-236, 455-457.	2.7	6
69	Neutron diffraction studies of the $\text{Ba}_3\text{Ca}_{1+y}\text{Nb}_{2-y}\text{O}_9 \cdot \text{H}_2\text{O}$ high-temperature proton conductor. Physica B: Condensed Matter, 2000, 276-278, 864-865.	2.7	6
70	Deformations of the $\text{Fe}_2\text{O}_3$ rhombohedral lattice across the Néel temperature. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 27-32.	1.1	6
71	Verification of the de Wolff hypothesis concerning the symmetry of $\text{Fe}_2\text{MnO}_2$ . Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 889-901.	0.1	6
72	Neutron-diffraction studies of the crystal structure of $\text{CaNdAlO}_4$ . Physica B: Condensed Matter, 1995, 213-214, 417-419.	2.7	5

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73	Neutron-diffraction studies of the crystal and magnetic structure of BaSn <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> . Physica B: Condensed Matter, 1995, 213-214, 227-229.	2.7	5
74	Oxides: neutron and synchrotron X-ray diffraction studies. Journal of Electron Microscopy, 1999, 48, 681-687.	0.9	5
75	Phase separation in CaCu <sub>x</sub> Mn <sub>7-<math>\alpha</math></sub> O <sub>12</sub> ( $\alpha=0.38$ ). Journal of Alloys and Compounds, 2004, 362, 218-223.	5.5	5
76	Relative orientation of the magnetic moments in modulated multiferroic CaMn <sub>7</sub> O <sub>12</sub> . Physica B: Condensed Matter, 2013, 428, 27-29.	2.7	5
77	Dilemma on the crystal structure of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . Materials Research Express, 2014, 1, 016306.	1.6	5
78	Mössbauer study of proton radiation effects in FeCl <sub>2</sub> ·4H <sub>2</sub> O. Radiation Effects, 1976, 30, 207-212.	0.4	4
79	Neighbour Jumps of Hydrogen in Quasi-Elastic Neutron Scattering from PdH. Physica Status Solidi (B): Basic Research, 1978, 89, K29.	1.5	4
80	SANS investigations of critical phenomena and phase separations: Two examples of blends with high and low molecular weights. Physica B: Condensed Matter, 1989, 156-157, 402-404.	2.7	4
81	Very high resolution diffractometry at pulsed neutron sources. Journal of Neutron Research, 1997, 6, 149-160.	1.1	4
82	Particle and crystallite size effects on the modulated structure of multiferroic CaMn <sub>7</sub> O <sub>12</sub> . Journal of Solid State Chemistry, 2013, 198, 392-398.	2.9	4
83	Crystallite size effect on the monoclinic deformation of the bcc crystal structure of chromium. Physica B: Condensed Matter, 2018, 530, 183-190.	2.7	4
84	Crystal symmetry for incommensurate helical and cycloidal modulations. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 160-172.	0.1	4
85	Quasi-Elastic Neutron Scattering Laws at Finite Concentrations of Elements Diffusing in a Crystal. Physica Status Solidi (B): Basic Research, 1979, 93, K39.	1.5	3
86	Temperature dependence of the magnetic excitation spectrum of Dy <sub>2</sub> Fe <sub>14</sub> B. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1053-1054.	2.3	3
87	Neutron diffraction studies of the crystal and magnetic structure of BaTi <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> . Journal of Magnetism and Magnetic Materials, 1996, 160, 382-383.	2.3	3
88	Determination of the Fe/Sn atoms distribution in BaSn <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> by neutron and synchrotron radiation diffraction. Physica B: Condensed Matter, 1997, 234-236, 931-933.	2.7	3
89	Neutron scattering in proton conducting perovskite-oxides. Solid State Ionics, 1999, 119, 261-268.	2.7	3
90	Domain size effects in neutron and SR powder diffraction studies of some oxides. Journal of Alloys and Compounds, 1999, 286, 180-183.	5.5	3

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91	Comment on the paper "Nature of low-temperature phase transitions in CaMn <sub>7</sub> O <sub>12</sub> ", JETP Letters, 2006, 83, 221-221.	1.4	3
92	Does the modulated magnetic structure of BiFeO <sub>3</sub> change at low temperatures?. Journal of Physics Condensed Matter, 2011, 23, 279501.	1.8	3
93	Spatially modulated spin structure (SMSS) in BiFeO <sub>3</sub> "30 years later. Journal of Physics Condensed Matter, 2016, 28, 421002.	1.8	3
94	Crystal symmetry aspects of materials with magnetic spin reorientation. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 705-708.	0.1	3
95	Magnetic modes compatible with the symmetry of crystals. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 327-338.	0.1	3
96	Influence of the finite lifetime of hydrogen jump phase on the quasi-elastic neutron scattering by hydrogen in metals. Journal of Physics and Chemistry of Solids, 1979, 40, 915-922.	4.0	2
97	Crystal and magnetic structure of the sulfur spinels Cu <sub>0.45</sub> Co <sub>0.55</sub> Cr <sub>2</sub> S <sub>4</sub> - xSex. Journal of Magnetism and Magnetic Materials, 1989, 80, 311-317.	2.3	2
98	Searching for tunnelling effects in the low temperature phases of <sup>12</sup> LiNH <sub>4</sub> SO <sub>4</sub> (LAS) by inelastic neutron scattering. Physica B: Condensed Matter, 1992, 180-181, 735-736.	2.7	2
99	Neutron Diffraction Studies of Crystal Structure of BaTi <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> and BaSn <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> . Materials Science Forum, 1993, 133-136, 677-682.	0.3	2
100	Thirty years of magnetic neutron diffraction at pulsed neutron sources. Neutron News, 1996, 7, 24-27.	0.2	2
101	Neutron diffraction studies of the Fe <sup>3+</sup> magnetic moments arrangements in the spin-glass systems BaTi <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> and BaSn <sub>2</sub> Fe <sub>4</sub> O <sub>11</sub> . Physica B: Condensed Matter, 1997, 234-236, 934-936.	2.7	2
102	Neutrons and synchrotron X-rays in materials science. Journal of Alloys and Compounds, 1999, 286, 174-179.	5.5	2
103	The birth of time-of-flight (TOF) neutron powder diffraction at pulsed neutron source (invited). Crystal Research and Technology, 2015, 50, 705-715.	1.3	2
104	Orthorhombic symmetry and anisotropic properties of $\text{PbO}$ . Physical Review B, 2021, 103, .	3.2	2
105	SPIN-REORIENTATION IN NdFeO <sub>3</sub> AND THE MAGNETIC EXCITATION SPECTRUM OF Nd. Journal De Physique Colloque, 1988, 49, C8-921-C8-922.	0.2	2
106	Neutron Larmor diffraction on powder samples. Journal of Applied Crystallography, 2020, 53, 88-98.	4.5	2
107	Nonlinear Equations of Correlated Jump Diffusion Derived in the Context of Hydrogen Migration in a Metal. Physica Status Solidi (B): Basic Research, 1979, 93, K167.	1.5	1
108	Elastic and inelastic neutron scattering from LiNH <sub>4</sub> SO <sub>4</sub> (LAS) and LiND <sub>4</sub> SO <sub>4</sub> (DLAS) at low temperatures. Ferroelectrics, 1988, 80, 237-240.	0.6	1

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109	Thermal Lattice Parameters Variation of $\text{CaCu}_x\text{Mn}_{7-x}\text{O}_{12}$ Compounds with Trigonal Crystal Structure. Acta Physica Polonica A, 2008, 113, 1225-1230.	0.5	1
110	Note on the energy resolution function of a triple-axis neutron spectrometer (TAS). Nuclear Instruments & Methods, 1979, 165, 357-358.	1.2	0
111	Secondary extinction in rotating single-crystal slabs. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1979, 35, 861-870.	0.6	0
112	Spin waves and local modes in the one-dimensional mixed antiferro-ferromagnet $\text{CsMn}_{0.89}\text{Fe}_{0.11}\text{Br}_3$ . Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 136, 360-363.	0.9	0
113	Publisher's Note: Incommensurate magnetic structure of $\hat{\Gamma}_2^{\pm}\text{MnO}_2$ [Phys. Rev. B68, 172401 (2003)]. Physical Review B, 2004, 69, .	3.2	0
114	Neutron Diffraction Study of the Magnetic Structure of $\hat{\Gamma}_2^{\pm}\text{-Mn}_2\text{O}_3$ . ChemInform, 2004, 35, no.	0.0	0
115	Magnetic modulations in bulk $\hat{\Gamma}_2^{\pm}$ described using monoclinic superspace groups. Physical Review B, 2022, 105, .		