

Valerie Paul-Boncour

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Magnetic, structural and magnetocaloric properties of $Y_{0.9}Gd_{0.1}Fe_{2}H_x$ hydrides. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164390.	2.8	0
2	Site Occupancy Determination in $Th_{2}Zn_{17}$ - and $TbCu_{7}$ -types $Sm_{2}Fe_{17}$ and Co_{17} Compounds using Synchrotron Resonant Diffraction. <i>Inorganic Chemistry</i> , 2021, 60, 1533-1541.	1.9	4
3	Tuning the Magnetocaloric Properties of the $La(Fe,Si)_{13}$ Compounds by Chemical Substitution and Light Element Insertion. <i>Magnetochemistry</i> , 2021, 7, 13.	1.0	14
4	Magnetic transitions with magnetocaloric effects near room temperature related to structural transitions in $Y_{0.9}Pr_{0.1}Fe_{2}D_{3.5}$ deuteride. <i>Journal of Applied Physics</i> , 2021, 130, 113904.	1.1	4
5	Investigation by STEM-EELS of helium density in nanobubbles formed in aged palladium tritides. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160267.	2.8	10
6	Investigation of the phase occurrence and H sorption properties in the $Y_{33.33}Ni_{66.67}Al$ ($O_{33.33}$) system. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161375.	2.8	4
7	Phase diagram and order-disorder transitions in $Y_{0.9}Gd_{0.1}Fe_{2}H_x$ hydrides ($x \approx 2.9$). <i>Journal of Alloys and Compounds</i> , 2021, , 163016.	2.8	0
8	3D Analysis of Helium-3 Nanobubbles in Palladium Aged under Tritium by Electron Tomography. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25404-25409.	1.5	4
9	The $Y-Mg-Co$ ternary system: alloys synthesis, phase diagram at 500°C and crystal structure of the new compounds. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152072.	2.8	12
10	$TbMgNi_{4}Co_{2}$ (H,D) System. I: Synthesis, Hydrogenation Properties, and Crystal and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2020, 124, 196-204.	1.5	9
11	Relation between the weak itinerant magnetism in $A_{2}Ni_{7}$ compounds ($A = Y, La$) and their stacked crystal structures. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 145802.	2.0	6
12	Origin of the metamagnetic transitions in $Y_{1-x}Er_xFe_{2}(H,D)_{4.2}$ compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 512, 167018.	1.0	5
13	Thermodynamic and corrosion study of $Sm_{1-x}Mg_xNi$ ($y = 3.5$ or 3.8) compounds forming reversible hydrides. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11686-11694.	3.8	12
14	Investigation of H Sorption and Corrosion Properties of $Sm_{2}Mn_xNi_{7-x}$ ($0 \leq x \leq 0.5$) Intermetallic Compounds Forming Reversible Hydrides. <i>Energies</i> , 2020, 13, 3470.	1.6	7
15	Correlations between stacked structures and weak itinerant magnetic properties of $La_{2-x}Y_xNi_7$ compounds. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 415804.	0.7	6
16	Anisotropic Nanoporous Nickel Obtained through the Chemical Dealloying of $Y_{2}Ni_{7}$ for the Comprehension of Anode Surface Chemistry of $Ni-M$ H Batteries. <i>ChemElectroChem</i> , 2019, 6, 5022-5031.	1.7	3
17	Metamagnetic transitions in $Y_{0.5}Er_{0.5}Fe_{2}D_{4.2}$ deuteride studied by high magnetic field and neutron diffraction experiments. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 356-365.	1.0	8
18	Synthesis and crystal structure of new compounds from the $Y-Mg-Ni$ system. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019, 234, 19-32.	0.4	5

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19	Relationship between H ₂ sorption, electrochemical cycling and aqueous corrosion properties in A5Ni19 hydride-forming alloys (A = Gd, Sm). Journal of Power Sources, 2018, 397, 280-287.	4.0	17
20	Phase equilibria in the Nd-Mg-Co system at 300 and 500°C, crystal structure and hydrogenation behavior of selected compounds. Intermetallics, 2017, 87, 61-69.	1.8	21
21	Crystal structure, hydrogen absorption-desorption behavior and magnetic properties of the Nd ₃ MgCo ₉ alloys. Journal of Alloys and Compounds, 2017, 695, 1426-1435.	1.1	9
22	Crystal structure, hydrogen absorption-desorption behavior and magnetic properties of the Nd ₃ MgCo ₉ alloys. Journal of Alloys and Compounds, 2017, 695, 1426-1435.	2.8	19
23	Interplay between crystal and magnetic structures in YFe ₂ (H _{1±D}) _{4.2} compounds studied by neutron diffraction. Journal of Solid State Chemistry, 2017, 245, 98-109.	1.4	14
24	Structural and magnetic phase diagram of YMn ₂ Fe (H,D) compounds (5% _Y 6% _{Fe}) synthesized under high H ₂ or D gaseous pressure. Journal of Alloys and Compounds, 2017, 691, 884-892.	2.8	2
25	Relationship between H ₂ sorption properties and aqueous corrosion mechanisms in A ₂ Ni ₇ hydride forming alloys (A = Y, Gd or Sm). Journal of Power Sources, 2016, 326, 146-155.	4.0	20
26	Syntheses and properties of several metastable and stable hydrides derived from intermetallic compounds under high hydrogen pressure. Applied Surface Science, 2016, 388, 723-730.	3.1	3
27	Investigation on structural and magnetocaloric properties of LaFe ₁₃ Si (H,C) compounds. Journal of Solid State Chemistry, 2016, 233, 95-102.	1.4	41
28	Hydrogenation behavior of the R ₄ MgCo (R=Y, La, Nd, Tb) compounds. Journal of Solid State Chemistry, 2015, 229, 135-140.	1.4	11
29	Effect of Co substitution on hydrogenation and magnetic properties of NdMgNi ₄ alloy. Journal of Alloys and Compounds, 2015, 639, 526-532.	2.8	30
30	Fast synthesis of LaFe ₁₃ Si _x magnetocaloric compounds by reactive Spark Plasma Sintering. Journal of Alloys and Compounds, 2015, 645, 143-150.	2.8	22
31	Phase equilibria in the Tb-Mg-Co system at 500°C, crystal structure and hydrogenation properties of selected compounds. Journal of Solid State Chemistry, 2015, 232, 228-235.	1.4	21
32	Hydrogenation properties and crystal structure of YMgT ₄ (T=Co, Ni, Cu) compounds. Journal of Alloys and Compounds, 2014, 603, 7-13.	2.8	51
33	On the origin of the giant isotopic effect of hydrogen on the magnetic properties of YFe ₂ (H,D) _{4.2} (H, D): A high pressure study. Applied Physics Letters, 2013, 102, .	1.5	17
34	Isotope effect on structural transitions in Y _{0.9} Gd _{0.1} Fe ₂ (H _z D _{1-z}) _{4.2} compounds. Chemistry of Metals and Alloys, 2013, 6, 130-143.	0.2	4
35	Magnetic properties of Y _{0.9} Gd _{0.1} Fe ₂ D _{4.2} compound under continuous magnetic field up to 310 kOe. Journal of Applied Physics, 2012, 111, .	1.1	2
36	YMn ₂ H _x and RMn ₂ YFe _y H ₆ (R = Y, Er) studied by Raman, infrared and inelastic neutron scattering spectroscopies. Faraday Discussions, 2011, 151, 307.	1.6	7

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37	Local deuterium order in apparently disordered Laves phase deuteride YFe ₂ D _{4.2} . Journal of Solid State Chemistry, 2011, 184, 2516-2524.	1.4	15
38	Structural, electronic and magnetic properties of YFeMnH ₅ . International Journal of Hydrogen Energy, 2011, 36, 1046-1052.	3.8	3
39	Structural and magnetic properties of RMn ₂ Fe D ₆ compounds (R=Y, Er; x=0.2) synthesized under high deuterium pressure. Journal of Solid State Chemistry, 2011, 184, 463-469.	1.4	6
40	Pressure-induced changes in the structural and magnetic properties of YFe ₂ D _{4.2} . Physical Review B, 2011, 84, .	1.1	20
41	Hydrides of Laves phases intermetallic compounds synthesized under high hydrogen pressure. Solid State Ionics, 2010, 181, 306-310.	1.3	22
42	Magnetic properties of Y _{0.7} Er _{0.3} Fe ₂ (H,D) _{4.2} compounds under continuous magnetic field up to 35 tesla. Journal of Applied Physics, 2010, 107, 09E144.	1.1	4
43	Structural and magnetic properties of magnetocaloric LaFe ₁₃ xSix compounds synthesized by high energy ball-milling. Intermetallics, 2010, 18, 2301-2307.	1.8	93
44	Investigation of compounds for magnetocaloric applications: YFe ₂ H _{4.2} , YFe ₂ D _{4.2} , and Y _{0.5} Tb _{0.5} Fe ₂ D _{4.2} . Journal of Applied Physics, 2009, 105, .	1.1	22
45	Structural and magnetic properties of DyMn ₂ D ₆ synthesized under high deuterium pressure. Journal of Physics Condensed Matter, 2009, 21, 016001.	0.7	6
46	Study of the multipeak deuterium thermodesorption in YFe ₂ D _x (1.3 ≤ x ≤ 4.2) by DSC, TD and in situ neutron diffraction. International Journal of Hydrogen Energy, 2009, 34, 2278-2287.	3.8	12
47	Deuterium ordering in Laves-phase deuteride YFe ₂ D _{4.2} . Journal of Solid State Chemistry, 2009, 182, 1907-1912.	1.4	18
48	Studies of novel deuterides RMn ₂ D ₆ (R = rare earth) compressed in DAC up to 30 GPa. Journal of Physics: Conference Series, 2008, 121, 022001.	0.3	6
49	Structural, electronic and magnetic properties of ErFeMn and ErFeMnH _{4.7} compounds. New Journal of Physics, 2007, 9, 271-271.	1.2	5
50	Metamagnetic transitions in RFe ₂ (H,D) _{4.2} compounds (R=Y,Tb). Journal of Applied Physics, 2007, 101, 09G514.	1.1	5
51	Isotope effect on the thermodynamic and structural properties of Y _{1-x} RyFe ₂ (H,D) _x (R=Tb, Tj) compounds. Journal of Applied Physics, 2007, 101, 09G514.	2.8	13
52	Structural, thermal and magnetic properties of ErMn ₂ D ₆ synthesized under high deuterium pressure. Journal of Physics Condensed Matter, 2006, 18, 6409-6420.	0.7	12
53	Large (H,D) isotope effect on the metamagnetic transition in Y _{0.9} R _{0.1} Fe ₂ (H,D) _{4.3} compounds. Journal of Applied Physics, 2006, 99, 08F505.	1.1	9
54	Neutron diffraction study, magnetic properties and thermal stability of YMn ₂ D ₆ synthesized under high deuterium pressure. Journal of Solid State Chemistry, 2005, 178, 356-362.	1.4	34

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55	Structural and magnetic properties of RFe ₂ D _x deuterides (R = Zr, Y and) studied by means of neutron diffraction and ⁵⁷ Fe Mössbauer spectroscopy. Journal of Physics Condensed Matter, 2005, 17, 893-908.	0.7	24
56	Giant isotope effect on the itinerant-electron metamagnetism in YFe ₂ (D _{1-x} H _x) _{4.2} . Physical Review B, 2005, 72, .	1.1	28
57	Ab initio approach of the hydrogen insertion effect on the magnetic properties of YFe ₂ . Physical Review B, 2004, 70, .	1.1	40
58	Influence of H/D isotopic substitution on the first-order magnetic transition in YFe ₂ (D _{1-x} H _x) _{4.2} compounds (x=0, 0.64, 1). Physica B: Condensed Matter, 2004, 350, E27-E30.	1.3	18
59	The novel YMn ₂ D ₆ deuteride synthesized under high pressure of gaseous deuterium. Solid State Communications, 2004, 130, 815-820.	0.9	30
60	Comparison of the influence of hydrogen on the magnetic properties of RMn ₂ and RFe ₂ Laves phase compounds. Journal of Alloys and Compounds, 2004, 367, 185-190.	2.8	29
61	Influence of deuterium absorption on structural and magnetic properties of ErFe ₂ . Journal of Alloys and Compounds, 2003, 356-357, 195-199.	2.8	10
62	Structural and magnetic properties of ErFe ₂ D ₅ studied by neutron diffraction and Mössbauer spectroscopy. Journal of Physics Condensed Matter, 2003, 15, 4349-4359.	0.7	26
63	Structural and magnetic properties of RFe ₂ H ₅ hydrides (R=Y, Er). Journal of Alloys and Compounds, 2001, 317-318, 83-87.	2.8	59
64	Local order study of YFe ₂ D _x (0 ≤ x ≤ 3.5) compounds by X-ray absorption and Mössbauer spectroscopy. Physica B: Condensed Matter, 2001, 307, 277-290.	1.3	13
65	Study of phase transformations in YFe ₂ D _{1.75} deuterides by in situ neutron diffraction. Physica B: Condensed Matter, 2000, 276-278, 278-279.	1.3	6
66	Elaboration, Structures, and Phase Transitions for YFe ₂ D _x Compounds (x=1.3, 1.75, 1.9, 2.6) Studied by Neutron Diffraction. Journal of Solid State Chemistry, 1999, 142, 120-129.	1.4	41
67	The influence of hydrogen on the magnetic properties and electronic structures of intermetallic compounds: YFe ₂ -D ₂ system as an example. Journal of Alloys and Compounds, 1999, 293-295, 237-242.	2.8	40
68	Temperature dependence study of YMn ₂ D _{4.5} by means of neutron powder diffraction. Journal of Alloys and Compounds, 1998, 274, 59-64.	2.8	31
69	Hydrogen induced phase transitions in YMn ₂ . Journal of Alloys and Compounds, 1998, 274, 29-37.	2.8	59
70	Structural and magnetic study of new YFe ₂ D _x compounds (0 < x ≤ 3.5). Journal of Alloys and Compounds, 1997, 253-254, 272-274.	2.8	17
71	Multiphase isotherms related to a multiphase behaviour in the YFe ₂ -D ₂ system. Journal of Alloys and Compounds, 1997, 255, 195-202.	2.8	23
72	Neutron diffraction study of YMn ₂ D ₁ . Physica B: Condensed Matter, 1997, 234-236, 599-601.	1.3	9

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73	Crystallographic Study of YFe ₂ D _{3.5} by X-Ray and Neutron Powder Diffraction. Journal of Solid State Chemistry, 1997, 133, 568-571.	1.4	24
74	X-ray diffraction and extended X-ray absorption fine-structure study of RMn ₂ hydrides (R = Y, Gd or Tj). Journal of Applied Physics, 1996, 79, 4253.	2.8	26
75	Deuteride absorption and desorption effects on magnetic properties of YFe ₂ D _x . Journal of Applied Physics, 1996, 79, 4253.	1.1	20
76	Structural study of YMn ₂ hydrides. Journal of Alloys and Compounds, 1995, 225, 436-439.	2.8	26
77	Neutron diffraction study of YMn ₂ D _x deuterides (1 × 1 × 3.4). Journal of Alloys and Compounds, 1995, 231, 99-103.	2.8	32