

Peter D Battle

List of Publications by Year in descending order

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92
papers

1,621
citations

279701

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36
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97
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of magnetic frustration in A_2FeMO_6 ($A = Ca, Sr, Ba$; $M = Nb, Ta, Sb$) by magnetometry and Mössbauer spectroscopy. <i>Journal of Materials Chemistry</i> , 1995, 5, 865-870.	6.7	90
2	A study of anhydrous iron(III) sulfate by magnetic susceptibility, Moessbauer, and neutron diffraction techniques. <i>Inorganic Chemistry</i> , 1979, 18, 624-632.	1.9	77
3	Neutron diffraction study of the influence of structural disorder on the magnetic properties of Sr_2FeMO_6 ($M = Ta, Sb$). <i>Journal of Materials Chemistry</i> , 1997, 7, 459-463.	6.7	76
4	Synthesis, crystal structure and magnetic properties of $A_3A'^2RuO_6$ ($A = Ca, Sr$; $A' = Li, Na$). <i>Materials Research Bulletin</i> , 1997, 32, 139-150.	2.7	58
5	Study of the magnetic properties of iron(III) molybdate, by susceptibility, Moessbauer, and neutron diffraction techniques. <i>Inorganic Chemistry</i> , 1982, 21, 4223-4228.	1.9	51
6	Structural chemistry and magnetic properties of La_2LiRuO_6 . <i>Journal of Solid State Chemistry</i> , 2003, 175, 20-26.	1.4	50
7	Synthesis, structure, and magnetic properties of $n=2$ Ruddlesden-Popper manganates. <i>Current Opinion in Solid State and Materials Science</i> , 1999, 4, 163-170.	5.6	45
8	Prediction and Verification of the Structural Chemistry of New One-Dimensional Barium/Copper/Iridium Oxides. <i>Chemistry of Materials</i> , 1998, 10, 3536-3547.	3.2	44
9	Control of Magnetic Ordering by Jahn-Teller Distortions in Nd_2GaMnO_6 and La_2GaMnO_6 . <i>Journal of the American Chemical Society</i> , 2001, 123, 1111-1122.	6.6	44
10	Neutron Diffraction Study of the Structural and Electronic Properties of $Sr_2HoMn_2O_7$ and $Sr_2YMn_2O_7$. <i>Chemistry of Materials</i> , 1997, 9, 3136-3143.	3.2	41
11	Modulated structure of $Ba_6ZnIr_4O_{15}$; a comparison with $Ba_6CuIr_4O_{15}$ and $SrMn_{1-x}Co_xO_3$. <i>Journal of Materials Chemistry</i> , 1997, 7, 1559-1564.	6.7	40
12	Prediction of inorganic crystal framework structures. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1815.	1.3	40
13	$Sr_{4-x}Ca_xRhO_6$: a magnetically ordered RhIV compound. <i>Journal of Materials Chemistry</i> , 1995, 5, 1785-1789.	6.7	38
14	Neutron Diffraction Study of $Ba_6Mn_4MO_{15}$ ($M = Cu, Zn$): A Long-Range Magnetic Order in Pseudo-1D Materials. <i>Journal of the American Chemical Society</i> , 1999, 121, 3958-3967.	6.6	38
15	Development of a New Interatomic Potential for the Modeling of Ligand Field Effects. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6824-6830.	1.2	38
16	Magnetism and Structural Chemistry of the $n = 1$ Ruddlesden-Popper Phases La_4LiMnO_8 and $La_3SrLiMnO_8$. <i>Journal of the American Chemical Society</i> , 2002, 124, 620-628.	6.6	38
17	Crystal Structure and Magnetic Properties of $SrCaMnGaO_5$. <i>Journal of Solid State Chemistry</i> , 2002, 167, 188-195.	1.4	36
18	Sol-gel synthesis of the magnetically frustrated oxides Sr_2FeSbO_6 and $SrLaFeSnO_6$. <i>Journal of Materials Chemistry</i> , 1995, 5, 75-78.	6.7	35

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19	Control of electronic properties by lanthanide size and manganese oxidation state in the MnIII/MnIV Ruddlesden-Popper phases $\text{Ln}_2\text{xSr}_{1+\text{x}}\text{Mn}_2\text{O}_7$. <i>Journal of Materials Chemistry</i> , 1997, 7, 977-988.	6.7	35
20	Superparamagnetism and metal-site ordering in quaternary nitrides with the $\hat{\Gamma}$ -carbide structure. <i>Journal of Materials Chemistry</i> , 2004, 14, 3001-3007.	6.7	29
21	$\text{La}_3\text{Ni}_2\text{SbO}_9$: a Relaxor Ferromagnet. <i>Inorganic Chemistry</i> , 2013, 52, 6648-6653.	1.9	29
22	Magnetic Ordering in Nitrides with the $\hat{\Gamma}$ -Carbide Structure, $(\text{Ni},\text{Co},\text{Fe})_2(\text{Ga},\text{Ge})\text{Mo}_3\text{N}$. <i>Inorganic Chemistry</i> , 2010, 49, 1133-1143.	1.9	28
23	Ferromagnetic Nitrides with the Filled $\hat{\Gamma}$ -Mn Structure: $\text{Fe}_2\text{xMxMo}_3\text{N}$ (M = Ni, Pd, Pt). <i>Chemistry of Materials</i> , 2005, 17, 1867-1873.	3.2	24
24	Cation and Spin Ordering in the $n=1$ Ruddlesden-Popper Phase $\text{La}_2\text{Sr}_2\text{LiRuO}_8$. <i>Chemistry of Materials</i> , 2004, 16, 4257-4266.	3.2	23
25	In situ neutron diffraction study of the high-temperature redox chemistry of $\text{Ln}_3\text{xSr}_{1+\text{x}}\text{CrNiO}_8$ ($\text{Ln} = \text{Tj}, \text{ET}, \text{Qq}$). <i>Journal of Materials Chemistry</i> , 2011, 21, 10784-10791.	6.7	21
26	Diffusion in Li_2O studied by non-equilibrium molecular dynamics for 873 $\leq T/K \leq 1603$. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21470-21475.	1.3	21
27	Magnetic structures and properties of α -chromium phosphate and α -chromium arsenate. <i>Inorganic Chemistry</i> , 1989, 28, 1207-1213.	1.9	20
28	Structural Chemistry and Magnetic Properties of Incommensurate $\text{Sr}_{1+\text{x}}(\text{Co}_\text{x}\text{Mn}_{1-\text{x}})\text{O}_3$. <i>Chemistry of Materials</i> , 2003, 15, 4262-4267.	3.2	19
29	The influence of structural disorder on the magnetic properties of $\text{Sr}_2\text{Fe}_{1-\text{x}}\text{GaxTaO}_6$ ($0 \leq \text{x} \leq 1$). <i>Journal of Materials Chemistry</i> , 2003, 13, 1210-1214.	6.7	19
30	Magnetism and structural chemistry of the $n=2$ Ruddlesden-Popper phase $\text{La}_3\text{LiMnO}_7$. <i>Journal of Solid State Chemistry</i> , 2004, 177, 119-125.	1.4	19
31	Ferrimagnetism as a consequence of cation ordering in the perovskite $\text{LaSr}_2\text{Cr}_2\text{SbO}_9$. <i>Journal of Solid State Chemistry</i> , 2017, 248, 96-103.	1.4	19
32	Electronic phase transitions and magnetoresistance in a new bilayer manganate, $\text{Ca}_{2.5}\text{Sr}_{0.5}\text{GaMn}_2\text{O}_8$. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 13569-13577.	0.7	18
33	$\text{Ln}_3\text{Li}_8\text{Rh}_5\text{O}_{39}$ (Ln = La, Pr): A Mixed-Metal Oxide with a Charge-Ordered Arrangement of Rh^{3+} and Rh^{4+} . <i>Inorganic Chemistry</i> , 2005, 44, 7138-7142.	1.9	18
34	Structural chemistry and magnetic properties of the perovskite $\text{Sr}_3\text{Fe}_2\text{TeO}_9$. <i>Journal of Solid State Chemistry</i> , 2016, 242, 86-95.	1.4	18
35	Neutron Diffraction Study of the Structures of $\text{Ba}_5\text{Cu}_3\text{Ir}_3\text{O}_{12}$ and $\text{Ba}_{16}\text{Cu}_3\text{Ir}_{10}\text{O}_{39}$. <i>Chemistry of Materials</i> , 1999, 11, 1551-1558.	3.2	17
36	Antimony in the Sr_4PtO_6 Structure: A Neutron Diffraction Study of $\text{Sr}_3\text{NaSbO}_6$. <i>Inorganic Chemistry</i> , 2001, 40, 1716-1717.	1.9	17

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37	Crystal and magnetic structures of Sr ₄ MMn ₂ O ₉ (M=Cu or Zn). Journal of Solid State Chemistry, 2003, 176, 88-96.	1.4	17
38	Structural chemistry and magnetic properties of hexagonal perovskites Ba _{1-x} Mn _{1+x} O ₃ , x = 0.3, 0.4, 0.5. Journal of Materials Chemistry, 2003, 13, 2220-2226.	6.7	16
39	The interplay of microstructure and magnetism in La ₃ Ni ₂ SbO ₉ . Journal of Solid State Chemistry, 2014, 220, 163-166.	1.4	15
40	Synthesis and Characterization of Ru-Doped n = 1 and n = 2 Ruddlesden-Popper Manganates. Chemistry of Materials, 2002, 14, 3976-3983.	3.2	14
41	Structural Chemistry and Magnetic Properties of Nd ₁₈ Li ₈ Fe ₅ O ₃₉ and Nd ₁₈ Li ₈ Co ₄ O ₃₉ : the Interplay of Cation and Spin Ordering. Inorganic Chemistry, 2008, 47, 11212-11222.	1.9	14
42	Development of a new force field for open shell ions: application to modelling of LaMnO ₃ . Chemical Communications, 2000, , 1879-1880.	2.2	13
43	Structural chemistry and magnetic properties of 6H and 15R hexagonal perovskites Ba _{1-x} Fe _{1+x} O ₃ . Journal of Materials Chemistry, 2003, 13, 2617-2625.	6.7	13
44	Ca _{2.5} Sr _{0.5} GaMn ₂ O ₈ : Diamagnetic Ga in Control of the Structural and Electronic Properties of a Bilayered Manganate. Journal of the American Chemical Society, 2004, 126, 12517-12527.	6.6	12
45	Use of in situ neutron diffraction to monitor high-temperature, solid/H ₂ -gas reactions. Chemical Communications, 2009, , 2556.	2.2	11
46	Structural chemistry and magnetic properties of the perovskite SrLa ₂ Ni ₂ TeO ₉ . Journal of Solid State Chemistry, 2016, 243, 304-311.	1.4	10
47	Ferromagnetism in the filled \hat{I}^2 -Mn phase Fe _{2-x} Rh _x Mo ₃ N. Journal of Materials Chemistry, 2005, 15, 3402.	6.7	9
48	Structural Chemistry and Magnetic Properties of Nd ₁₈ Li ₈ Fe ₅ M _x O ₃₉ (M = Ti, Co) / Overl...	1.4	9
49	Comparative study of the magnetic properties of La ₃ Ni ₂ B ₂ O ₉ for B = Nb, Ta or Sb. Journal of Solid State Chemistry, 2018, 258, 825-834.	1.4	9
50	Crystal structure and electronic properties of Ca ₄ Mn ₂ TiO _{9.93} , an n = 3 Ruddlesden-Popper compound. Journal of Materials Chemistry, 2001, 11, 160-167.	6.7	8
51	Composition dependence of the structural chemistry and magnetism of Ca _{2.5} Sr _{0.5} (Ga,Co) _{1+x} Mn ₂ O ₈ . Journal of Solid State Chemistry, 2006, 179, 775-792.	1.4	8
52	Synthesis and structural chemistry of La ₁₈ Li ₈ Rh ₄ MO ₃₉ (M=Ti, Mn, Ru). Journal of Solid State Chemistry, 2010, 183, 1620-1624.	1.4	8
53	Magnetic Properties of CeMn ₂ Co ₄ Ge ₁₂ O ₃₉ (0 ≤ x ≤ 2) as a Function of Temperature and Magnetic Field. Inorganic Chemistry, 2017, 56, 2750-2762.	1.4	8
54	Magnetic properties of the 6H perovskite Ba ₃ Fe ₂ TeO ₉ . Journal of Solid State Chemistry, 2017, 253, 347-354.	1.4	8

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73	Magnetic properties of $\text{Ln}_2\text{CoGe}_4\text{O}_{12}$ and $\text{LnBCoGe}_4\text{O}_{12}$ (Ln = Gd, Tb, Dy, Ho, Er; B = Sc, Lu). Dalton Transactions, 2017, 46, 15778-15788.	1.6	4
74	Magnetic properties of $\text{La}_3\text{Ni}_2\text{SbTaNbO}_9$; from relaxor to spin glass. Journal of Solid State Chemistry, 2019, 273, 175-185.	1.4	4
75	Structural chemistry of $\text{Ln}_2\text{BaLiRuO}_7$ (Ln=La, Pr). Solid State Sciences, 2006, 8, 280-288.	1.5	3
76	Evolution of the crystal structure and magnetic properties of $\text{Sr}_{2-x}\text{Ca}_x\text{CrSbO}_6$ with composition. Journal of Solid State Chemistry, 2018, 264, 48-58.	1.4	3
77	Short-range cation and spin ordering in the relaxor ferromagnet $\text{La}_3\text{Ni}_2\text{SbO}_9$ studied by polarized-neutron scattering and Monte-Carlo methods. Journal of Solid State Chemistry, 2019, 278, 120920.	1.4	3
78	Magnetisation reversal in $\text{Ca}_2\text{PrCr}_2\text{NbO}_9$ and $\text{Ca}_2\text{PrCr}_2\text{TaO}_9$. Journal of Solid State Chemistry, 2019, 269, 80-86.	1.4	3
79	Structural and magnetic properties of the perovskites $\text{A}_2\text{LaFe}_2\text{SbO}_9$ (A = Ca, Sr, Ba). Journal of Solid State Chemistry, 2021, 295, 121914.	1.4	3
80	Synthesis and characterisation of $\text{Sr}_{1.2}\text{Nd}_{0.8}\text{Mn}_{0.6}\text{Rh}_{0.4}\text{O}_4$. Journal of Materials Chemistry, 2003, 13, 1166-1172.	6.7	2
81	Structural chemistry and magnetic properties of $\text{Nd}_{18}\text{Li}_8\text{Fe}_4\text{M}_2\text{O}_{39}$ ($\text{M}^{2+} = \text{Al}, \text{Ga}$) and $\text{La}_{18}\text{Li}_8\text{Fe}_{4.5}\text{In}_{0.5}\text{O}_{39}$. Journal of Solid State Chemistry, 2014, 209, 120-126.	1.4	2
82	Magnetic properties of $\text{CeM}_{1.5}\text{M}'_{0.5}\text{Ge}_4\text{O}_{12}$ (M = Mn, Co; $\text{M}' = \text{Ni}, \text{Cu}$). Journal of Solid State Chemistry, 2018, 265, 339-344.	1.4	2
83	Stabilisation of magnetic ordering in $\text{La}_3\text{Ni}_{2-x}\text{Cu}_x\text{B}'\text{O}_9$ ($\text{B}' = \text{Sb}, \text{Ta}, \text{Nb}$) by the introduction of Cu^{2+} . Journal of Solid State Chemistry, 2019, 276, 164-172.	1.4	2
84	Structure and magnetic properties of cation-disordered perovskites SrLaCrSnO_6 and $\text{Ca}_2\text{CeCr}_2\text{TiO}_9$. Journal of Solid State Chemistry, 2019, 269, 608-615.	1.4	2
85	$\text{CaLa}_2\text{FeCoSbO}_9$ and $\text{ALa}_2\text{FeNiSbO}_9$ (A = Ca, Sr, Ba): cation-ordered, inhomogeneous, ferrimagnetic perovskites. Journal of Solid State Chemistry, 2020, 285, 121226.	1.4	2
86	Synthesis, structural chemistry and magnetic properties of $\text{La}_1 + x\text{Al}^{3+}_x\text{InMnO}_6$: A = Ba, Sr; x = 0, 0.2. Journal of Materials Chemistry, 2001, 11, 1656-1661.	6.7	1
87	Pentastrontium trilead nickel dodecaoxide, $\text{Sr}_5\text{Pb}_3\text{NiO}_{12}$. Journal of Chemical Crystallography, 2004, 34, 255-258.	0.5	1
88	Structural chemistry and spin-glass behaviour of $\text{Nd}_{18}\text{Li}_8\text{Fe}_4\text{TiO}_{39}$. Journal of Solid State Chemistry, 2012, 187, 75-82.	1.4	1
89	Antiferromagnetism and Metamagnetism in $\text{ErFeCuGe}_4\text{O}_{12}$. Journal of Solid State Chemistry, 2019, 269, 107-112.	1.4	1
90	Magnetic properties of $\text{GdB}_2\text{Ge}_4\text{O}_{12}$; $\text{BB}'_2 = \text{FeZn}$ or GdCa . Journal of Solid State Chemistry, 2019, 270, 205-211.	1.4	1

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91	$\text{Li}_{11}\text{Nd}_{18}\text{Fe}_4\text{O}_{39}$ Revisited. Inorganic Chemistry, 2013, 52, 950-952.	1.9	0
92	Composition-dependent transition from spin glass to ferrimagnet in $\text{CaLa}_2\text{Ni}_2\text{-Cu WO}_9$ (0 x 0.5). Journal of Solid State Chemistry, 2020, 287, 121388.	1.4	0