

Michael F C Pollet

List of Publications by Year in descending order

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52
papers

1,361
citations

304743

22
h-index

345221

36
g-index

61
all docs

61
docs citations

61
times ranked

2249
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Hydrothermal Synthesis of VO ₂ (B) and Its Conversion to Thermochromic VO ₂ (M1). Inorganic Chemistry, 2013, 52, 4780-4785.	4.0	117
2	Large thermoelectric power factors and impact of texturing on the thermal conductivity in polycrystalline SnSe. Journal of Materials Chemistry C, 2016, 4, 1685-1691.	5.5	94
3	Invited Article: A round robin test of the uncertainty on the measurement of the thermoelectric dimensionless figure of merit of Co _{0.97} Ni _{0.03} Sb ₃ . Review of Scientific Instruments, 2015, 86, 011301.	1.3	92
4	Glass-like thermal conductivity in SrTiO ₃ thermoelectrics induced by A-site vacancies. RSC Advances, 2014, 4, 33720-33723.	3.6	89
5	Anomaly in the dielectric response at the charge-orbital-ordering transition of Pr _{0.67} Ca _{0.33} MnO ₃ . Physical Review B, 2004, 69, .	3.2	65
6	VO ₂ (A): Reinvestigation of crystal structure, phase transition and crystal growth mechanisms. Journal of Solid State Chemistry, 2014, 213, 79-86.	2.9	60
7	Oxygen reduction reaction of PrBaCo ₂ ~xFe _x O _{5+δ} compounds as H ₂ -SOFC cathodes: correlation with physical properties. Journal of Materials Chemistry A, 2014, 2, 3594.	10.3	52
8	High-temperature phase transition in the three-layered sodium cobaltite $P_{\text{P}} \propto P^3$		

#	ARTICLE	IF	CITATIONS
19	Evidence for hard and soft substructures in thermoelectric SnSe. Applied Physics Letters, 2017, 110, .	3.3	29
20	Nonlinear electrical response in a charge/orbital ordered Pr _{0.63} Ca _{0.37} MnO ₃ crystal: The charge density wave analogy. Physical Review B, 2003, 68, .	3.2	24
21	Lowering of Ba _{1/3} B _{2/3} O ₃ complex perovskite sintering temperature by lithium salt additions. Journal of the European Ceramic Society, 2004, 24, 1019-1023.	5.7	23
22	Vibrational spectroscopy study of the lattice defects in CaZrO ₃ ceramics. Journal of the European Ceramic Society, 2004, 24, 1805-1809.	5.7	22
23	Unusual oxidation states give reversible room temperature magnetocaloric effect on perovskite-related oxides SrFe _{0.5} Co _{0.5} O ₃ . Journal of Solid State Chemistry, 2011, 184, 3228-3231.	2.9	22
24	Does the orbital degeneracy play any role in the high thermopower of lamellar cobaltites?. Journal of Applied Physics, 2007, 101, 083708.	2.5	19
25	Synthesis and Investigations on an O ₄ -LiCoO ₂ Polytype. Electrochemical and Solid-State Letters, 2009, 12, A207.	2.2	19
26	Neutron diffraction texture analysis and thermoelectric properties of BiCaCoO misfit compounds. Materials Research Bulletin, 2008, 43, 394-400.	5.2	17
27	(Li/Ag)CoO ₂ : A New Intergrowth Cobalt Oxide Composed of Rock Salt and Delafossite Layers. Inorganic Chemistry, 2011, 50, 6649-6655.	4.0	17
28	Phonon-Glass and Heterogeneous Electrical Transport in A-Site-Deficient SrTiO ₃ . Journal of Physical Chemistry C, 2019, 123, 5198-5208.	3.1	17
29	Reinvestigation of the magnetic behavior of O ₃ -LiCoO ₂ . Journal of Applied Physics, 2009, 106, .	2.5	16
30	Structurally Restricted Phase Transitions in VO ₂ (B) and Their Impact on Transport Properties. Journal of Physical Chemistry C, 2015, 119, 25085-25092.	3.1	16
31	Sintering of CaZrO ₃ -based ceramic using mixed conventional and microwave heating. Journal of Materials Science: Materials in Electronics, 2002, 13, 149-155.	2.2	15
32	Transition-Metal Oxides for Thermoelectric Generation. Journal of Electronic Materials, 2009, 38, 1078-1082.	2.2	15
33	First Experimental Evidence of a New D ₄ -AgCoO ₂ Delafossite Stacking. Inorganic Chemistry, 2011, 50, 4529-4536.	4.0	15
34	Copper electrodes multilayer ceramic capacitors Part I The dielectric composition. Journal of Materials Science, 2004, 39, 1943-1958.	3.7	13
35	Synthesis of lithium cobalt oxide by single-step soft hydrothermal method. Journal of Solid State Chemistry, 2013, 198, 45-49.	2.9	13
36	Low temperature sintering of B ₂ O ₃ /LiNO ₃ added BaMg _{1/3} Ta _{2/3} O ₃ ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 104, 58-62.	3.5	12

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37	Low temperature sintering of the binary complex perovskite oxides $x\text{Ba}(\text{Zn}_{1/3}\text{Ta}_{2/3})\text{O}_3 + (1-x)\text{Ba}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$. Journal of the European Ceramic Society, 2005, 25, 2763-2768.	5.7	12
38	Lowering of CaZrO_3 sintering temperature using lithium-calcium fluoride flux addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 362, 167-173.	5.6	11
39	Presence of Peierls pairing and absence of insulator-to-metal transition in VO_2 (A): a structure-property relationship study. Physical Chemistry Chemical Physics, 2017, 19, 6601-6609.	2.8	11
40	Nanoblock Coupling Effect in Iodine Intercalated $[\text{Bi}_{0.82}\text{CaO}_2]_2[\text{CoO}_2]_{1.69}$ Layered Cobaltite. Inorganic Chemistry, 2007, 46, 2124-2131.	4.0	9
41	High decrease in CaZrO_3 sintering temperature using complex fluoride fluxes. Journal of the European Ceramic Society, 2005, 25, 2773-2777.	5.7	7
42	Thermal properties of TiNiSn and VFeSb half-Heusler thermoelectrics from synchrotron x-ray powder diffraction. JPhys Energy, 2021, 3, 035001.	5.3	6
43	Title is missing!. Journal of Materials Science, 2003, 38, 4027-4032.	3.7	5
44	Copper electrodes multilayer ceramic capacitors Part II Chips fabrication, optimisation and characterisation. Journal of Materials Science, 2004, 39, 1959-1966.	3.7	4
45	Non-linear electrical response in a charge/orbital ordered $\text{Pr}_{0.63}\text{Ca}_{0.37}\text{MnO}_3$ crystal: the charge density wave scenario. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 388-389.	2.3	4
46	Physical properties of $\text{BaMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ - $\text{BaCo}_{1/3}\text{Nb}_{2/3}\text{O}_3$ solid solutions. Journal of Physics and Chemistry of Solids, 2006, 67, 822-827.	4.0	2
47	Spin State Diagrams of $3d^n$ Cations in Tetragonally Distorted Octahedral Sites. Journal of Physical Chemistry A, 2013, 117, 6536-6547.	2.5	2
48	Vibrational spectroscopy study of doped- CaZrO_3 ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 104, 169-175.	3.5	1
49	Structural features and transport properties of iodine intercalated misfit layer $[\text{BiCaO}/_2]/_2$ $[\text{CoO}/_2]/_2$ single crystals. , 2005, , .		0
50	Electronic Properties of 2D Alkali Cobaltites and Related Oxides. , 2006, , .		0
51	Thermopower of 2D-alkali cobaltites $A_x\text{CoO}_2$ with $A = \text{Li}, \text{Na}$ and K . , 2007, , .		0
52	Transition Metal Oxides for Thermoelectric Generation. Ceramic Engineering and Science Proceedings, 0, , 25-40.	0.1	0