

# Pierre Saint-Gregoire

## List of Publications by Year in descending order

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97  
papers

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104  
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104  
docs citations

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times ranked

544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric properties and switching processes of ferroelectric superlattices. , 2022, 5, .		0
2	Resistance Switching Effect in Octahedral framework oxide. , 2022, 5, .		0
3	Framework structure crystalline materials and Rigid Unit Modes (RUMs). Introducing the new concept of MLRUMs and skeletons Authors. , 2021, 5, .		0
4	Characterization and Phase Diagram of the Tetragonal Tungsten Bronze Type Ferroelectric Compounds $Pb_{2(1-x)}Gd_{x}K_{1+x}Nb_{5}O_{15}$ for Energy Storage Applications. , 2020, , 401-412.		0
5	Switching Properties of Ferroelectric Perovskite Superlattices. <i>Ferroelectrics</i> , 2019, 544, 43-48.	0.6	3
6	Study of the Oxidation Process of Crystalline Powder of $In_2S_3$ and Thin Films Obtained by Dr Blade Method. <i>Journal of Electronic Materials</i> , 2019, 48, 4715-4725.	2.2	6
7	Repolarization of Ferroelectric Superlattices $BaZrO_3/BaTiO_3$ . <i>Scientific Reports</i> , 2019, 9, 18948.	3.3	7
8	Effect of the lanthanum concentration on the physical properties of the $(Bi_{0.5}Na_{0.5})_{0.92}Ba_{0.08-3/2}La_{TiO_3}$ ceramic system. <i>Materials Chemistry and Physics</i> , 2018, 208, 103-111.	4.0	10
9	Structural and dielectric properties of the $(Bi_{0.500-x}Na_{0.500+x})_{0.920}Ba_{0.065}La_{0.010}TiO_{3-x}$ lead-free ceramic system. <i>Ferroelectrics</i> , 2018, 533, 85-91.		
10	Dielectric Properties and Switching Processes of Barium Titanate/Barium Zirconate Ferroelectric Superlattices. <i>Materials</i> , 2018, 11, 1436.	2.9	6
11	Infiltration of CdTe nano crystals into a ZnO wire vertical matrix by using the isothermal closed space technique. <i>Journal of Crystal Growth</i> , 2017, 475, 274-280.	1.5	2
12	Structural and ferroelectric properties of $Sr_{1-x}Ba_xBi_2Nb_2O_9$ thin films obtained by dip-coating. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1750035.	2.4	0
13	Transpyrenean Encounter on Advanced Materials. , 2017, 2, .		1
14	Debye's temperature and heat capacity for $Sr_{0.15}Ba_{0.85}Bi_2Nb_2O_9$ relaxor ferroelectric ceramic. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1620001.	2.4	0
15	Unusual Polarization Ordering in Lanthanum Modified Lead Zirconate Titanate $(Pb_{0.97}La_{0.03})(Zr_{0.90}Ti_{0.10})_{0.9925}O_3$ . <i>Journal of the American Ceramic Society</i> , 2016, 99, 2063-2070.		5
16	Raman spectroscopy investigation on $(Pb_{1-x}La_x)(Zr_{0.90}Ti_{0.10})_{1-x/4}O_3$ ceramic system. <i>Vibrational Spectroscopy</i> , 2016, 86, 124-127.	2.2	8
17	On fundamental mechanisms in dye sensitized solar cells through the behaviour of different mesoporous titanium dioxide films. <i>EPJ Applied Physics</i> , 2015, 72, 20404.	0.7	3
18	Polarization and Thermally Stimulated Processes in Lead-Free Ferroelectric Ceramics. , 2015, , .		0

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19	Vibrational analysis on two-layer Aurivillius phase $\text{Sr}1-x\text{Ba}x\text{Bi}_2\text{Nb}_2\text{O}_9$ using Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2015, 77, 1-4.	2.2	14
20	From normal ferroelectric transition to relaxor behavior in Aurivillius ferroelectric ceramics. <i>Journal of Materials Science</i> , 2014, 49, 7437-7444.	3.7	15
21	Synthesis of $\text{In}_2\text{S}_3(1-x)/\text{O}_3(x)$ thin films by oxidation of $\text{In}_2\text{S}_3$ film and influence of film microstructure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2865-2870.	1.8	2
22	Thermally stimulated processes in samarium-modified lead titanate ferroelectric ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 419-423.	2.3	1
23	Piezoelectric behavior in $\text{Sr}1-x\text{Ba}x\text{Bi}_2\text{Nb}_2\text{O}_9$ Aurivillius type structure ferroelectric ceramics. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1551-1555.	1.5	8
24	Fatigue phenomena in thin ferroelectric films stimulated by repeated switching of the polarization. <i>Journal of Advanced Dielectrics</i> , 2013, 03, 1350002. <small>Neutron scattering study of ferroelectric Sn</small>	2.4	3
25	<small>Neutron scattering study of ferroelectric Sn</small>	3.2	14
26	Incorporation of lanthanide ions in lead titanate. <i>Journal of Materials Science</i> , 2012, 47, 1094-1099.	3.7	10
27	Dielectric and structural properties of diffuse ferroelectric phase transition in $\text{Pb}_{1.85}\text{K}_{1.15}\text{Li}_{0.15}\text{Nb}_5\text{O}_{15}$ ceramic. <i>EPJ Applied Physics</i> , 2011, 53, 20901.	0.7	4
28	Phase diagram and dielectric properties of ferroelectric ceramics. Superlattices and Microstructures, 2011, 49, 300-306.	3.1	10
29	Novel features of the $\Gamma_2^{\pm}\Gamma_2^{\pm}$ phase transition in quartz-type $\text{FePO}_4$ as evidenced by x-ray diffraction and lattice dynamics. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 225403.	1.8	8
30	Ionic Conduction Properties in $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 2008, 371, 17-20.	0.6	5
31	Anomalies of Thermal Dilatation and Domain Structure in the Multiferroic Material $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 2008, 376, 17-24.	0.6	3
32	Ferroelastic Transitions and Cracks in $\text{Li}_3\text{ThF}_7$ Single Crystals. <i>Ferroelectrics</i> , 2006, 334, 57-65.	0.6	1
33	Structural and Dynamical Aspects of Structural Phase Transitions on Incommensurate $\text{A}_2\text{BX}_4$ compounds. <i>Ferroelectrics</i> , 2004, 305, 75-78.	0.6	0
34	Polarization Rotation in the Incommensurate Phase of $\text{Sn}_2\text{P}_2(\text{SexS}_{1-x})_6$ . <i>Ferroelectrics</i> , 2004, 302, 137-141.	0.6	1
35	Structural study of ferroelectric and paraelectric phases in $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2629-2638.	1.5	7
36	Anomalous Light Scattering in Quartz: Ferroelastic-ELT Versus Non Equilibrium-EQT Model. <i>Ferroelectrics</i> , 2003, 290, 97-104.	0.6	2

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37	H.R.E.M. Study of the Room Temperature Phase of $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 2003, 290, 83-90.	0.6	3
38	New Gadolinium Based Ferroelectric Phases Derived from the Tetragonal Tungsten Bronze (TTB). <i>Ferroelectrics</i> , 2003, 291, 133-139.	0.6	15
39	Imaging Ferroic Domain Structures with an Acoustic Microscope: Example of PPLN. <i>Ferroelectrics</i> , 2003, 290, 29-38.	0.6	2
40	Structural and Electrical Properties of the Ferroelectric $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 2002, 268, 417-422.	0.6	0
41	Stress Induced change of the lifshitz point type in $A_{2}BX_{4}$ compounds. <i>Ferroelectrics</i> , 2002, 265, 79-85.	0.6	0
42	A new ferroelectric compound: $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 2001, 254, 197-204.	0.6	14
43	On the evolution of texture between $\hat{I}_{\pm}$ and $\hat{I}^2$ phases in quartz: Aspects relevant with the problem of the anomalous light scattering. <i>Ferroelectrics</i> , 2001, 252, 1-9.	0.6	4
44	Structural change and some associated anomalies in the ferroelectric $\text{PbK}_2\text{LiNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 2001, 251, 131-137.	0.6	7
45	Structural characterization of PZT thin films and related properties. <i>Ferroelectrics</i> , 2001, 254, 403-410.	0.6	0
46	Ferroelastic phase transition in $\text{Cs}_3\text{Bi}_2\text{I}_9$ : A neutron diffraction study. <i>Physical Review B</i> , 2000, 61, 3857-3862.	3.2	17
47	Synthesis and phase transitions of iron phosphate. <i>Ferroelectrics</i> , 2000, 241, 255-262.	0.6	37
48	Lattice spin model $\text{AB}_1\text{B}_2$ . <i>Computational Materials Science</i> , 2000, 18, 167-176.	3.0	0
49	High-temperature phase transitions in incommensurate $\text{Rb}_2\text{WO}_4$ . <i>Journal of Physics Condensed Matter</i> , 2000, 12, 9307-9315.	1.8	13
50	On the anomalous light scattering in quartz: A critical overview and recent results. <i>Ferroelectrics</i> , 2000, 240, 1405-1412.	0.6	4
51	Thermodynamics of the incommensurate state in $\text{Rb}_2\text{WO}_4$ : The Lifshitz point in $\text{A}_2\text{BX}_4$ compounds. <i>Physical Review B</i> , 2000, 61, 3147-3150.	3.2	11
52	Comment on 'Inhomogeneities and birefringence in quartz'. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 8169-8173.	1.8	3
53	Structural organization of fullerenes $\text{C}_{60}$ , $\text{C}_{70}$ , $\text{C}_{84}$ . <i>Ferroelectrics</i> , 1999, 221, 37-46.	0.6	2
54	Structural study of the ferroelectric instability in $\text{SnPSe}$ . <i>European Physical Journal B</i> , 1999, 8, 169-177.	1.5	19

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55	Role of the coupling between strains and order parameter gradient in crystals. Phase Transitions, 1999, 67, 587-615.	1.3	2
56	Soft modes and phonon interactions in studied by neutron scattering. European Physical Journal B, 1998, 5, 169-178.	1.5	41
57	Soft modes and phonon interactions in studied by means of neutron scattering. Journal of Physics Condensed Matter, 1998, 10, 4811-4844.	1.8	38
58	Domain textures of multi-q modulated phases. Ferroelectrics, 1997, 191, 267-273.	0.6	7
59	Dense domain structure in ferroelastics by EPR. Ferroelectrics, 1997, 191, 179-185.	0.6	6
60	A sample analysis of domain walls in simple cubic phase of C60. Ferroelectrics, 1997, 191, 73-78.	0.6	7
61	On mesoscopic structure of incommensurate phases: Domain textures and textural blocks. Ferroelectrics, 1997, 192, 61-70.	0.6	4
62	Soft mode behaviour of incommensurate Sn <sub>2</sub> P <sub>2</sub> Se <sub>6</sub> : An inelastic neutron scattering study. Ferroelectrics, 1997, 202, 121-129.	0.6	5
63	On improper ferroelastics among incommensurate materials. Ferroelectrics, 1996, 175, 25-39.	0.6	8
64	A novel type of incommensurate phase in quartz: The elongated-triangle phase. JETP Letters, 1996, 64, 410-415.	1.4	17
65	Primary and secondary domain states in the simple cubic phase of c60. Ferroelectrics, 1996, 185, 71-76.	0.6	2
66	Structural instabilities in the (TEA) <sub>2</sub> m Cl <sub>4</sub> crystalline family: A DSC study. Ferroelectrics, Letters Section, 1995, 19, 69-74.	1.0	23
67	Ferroelastic Incommensurate Phases. Key Engineering Materials, 1995, 101-102, 237-284.	0.4	3
68	T.E.M. study of 3-q modulated phase of quartz-type under electric field. Ferroelectrics, 1994, 155, 371-376.	0.6	8
69	Study of the linear birefringence and domain structure in [N(CH <sub>3</sub> ) <sub>3</sub> ] <sub>2</sub> CoCl <sub>4</sub> and [N(CD <sub>3</sub> ) <sub>3</sub> ] <sub>2</sub> ZnCl <sub>4</sub> . Ferroelectrics, 1992, 125, 165-170.	0.6	3
70	Phase transitions in (TMP) <sub>2</sub> (CuCl <sub>4</sub> ) <sub>1-x</sub> (CuBr <sub>4</sub> ) <sub>x</sub> . Ferroelectrics, 1992, 125, 203-208.	0.6	7
71	Kinetics of the incommensurate to commensurate transition in the solid solution (NH <sub>4</sub> ) <sub>2</sub> (BeF <sub>4</sub> ) <sub>0.92</sub> (SO <sub>4</sub> ) <sub>0.08</sub> . Phase Transitions, 1992, 37, 165-177.	1.3	4
72	Domain walls and phase boundaries in (TMA) <sub>2</sub> Zn Cl <sub>4</sub> . Ferroelectrics, 1992, 126, 317-322.	0.6	3

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73	Domain wall vertices in quartz: Symmetry, classification, and T.E.M. Observation. <i>Ferroelectrics</i> , 1992, 125, 209-214.	0.6	8
74	Incommensurate phase and transitions in $\{(CH_3)_4P\}_2CuBr_4$ . <i>Solid State Communications</i> , 1991, 80, 451-455.	1.9	12
75	Linear birefringence studies of incommensurate systems: II. $KFeF_4$ . <i>Phase Transitions</i> , 1991, 36, 155-164.	1.3	3
76	Change of domain structure at lock-in transitions. <i>Phase Transitions</i> , 1991, 30, 255-258.	1.3	1
77	Optical study of the phase transitions in $(N(CD_3)_4)_2ZnCl_4$ and $(N(CH_3)_4)_2CoCl_4$ . <i>Journal of Physics Condensed Matter</i> , 1991, 3, 5975-5982.	1.8	8
78	Modulation vector rotation in incommensurate crystals under field or stress. <i>Ferroelectrics</i> , 1990, 105, 321-326.	0.6	2
79	EPR study of X-ray irradiated $[N(CH_3)_4]_2ZnCl_4$ crystal. <i>Ferroelectrics</i> , 1990, 105, 297-301.	0.6	0
80	Influence of thermal history on dielectric anomalies in incommensurate $(TMA)_2ZnCl_4$ . <i>Ferroelectrics, Letters Section</i> , 1990, 11, 79-88.	1.0	2
81	On the sequence of phase transitions in $KFeF_4$ . <i>Ferroelectrics</i> , 1990, 105, 195-200.	0.6	1
82	Domain walls in lock-in phases. <i>Ferroelectrics</i> , 1990, 111, 97-109.	0.6	7
83	Thermal and dielectric behaviors of poly(vinylidene fluoride-trifluoroethylene) copolymers at the curie transition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1989, 27, 709-722.	2.1	30
84	Thermal and dielectric investigations of the curie transition in Poly(vinylidene fluoride-trifluoroethylene) copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1989, 27, 723-732.	1.3	18
85	Analysis of linear defects in triply incommensurate phase of quartz-type. <i>Ferroelectrics</i> , 1989, 97, 299-311.	0.6	6
86	Ferroelastic walls in lock-in phases of $[N(CD_3)_3]_2ZnCl_4$ and $[N(CH_3)_3]_2CuCl_4$ . <i>Ferroelectrics</i> , 1989, 97, 277-292.	0.6	6
87	Hysteresis phenomena in the incommensurate phase of $(TMA)_2ZnCl_4$ , and at the lock-in transition. <i>Ferroelectrics</i> , 1988, 79, 343-346.	0.6	2
88	Electron microscopy study of nucleation processes at the lock-in phase transition of berlinite $AlPO_4$ . <i>Ferroelectrics</i> , 1988, 79, 347-350.	0.6	3
89	On the incommensurate phase in $BaMnF_4$ : sample dependence of the order parameter. <i>Journal De Physique</i> , 1988, 49, 463-469.	1.8	17
90	The influence of X-ray radiation damage on the incommensurate phase in $(N(CH_3)_4)_2ZnCl_4$ . <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, 2635-2645.	1.5	38

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91	Intrinsic Defects in Insulating Incommensurate Crystals. NATO ASI Series Series B: Physics, 1987, , 151-162.	0.2	2
92	Barium manganese fluoride BaMnF4 as an improper ferroelastic. Ferroelectrics, 1986, 67, 15-21.	0.6	15
93	Electron microscopy study of the modulated phases in berlinite AlPO4 and quartz. Journal De Physique, 1986, 47, 2041-2053.	1.8	35
94	Birefringence study of the $\hat{1}\pm\hat{1}^2$ transformation of berlinite, AlPO4. Journal of Physics C: Solid State Physics, 1984, 17, 1375-1383.	1.5	26
95	Calorimetric and neutron scattering studies of the incommensurate phase of berlinite (AlPO4). Solid State Communications, 1984, 51, 55-58.	1.9	26
96	Evidence for the incommensurate phase in AlPO4 near $\hat{1}\pm\hat{1}^2$ transition: a differential scanning calorimetry study. Journal of Physics C: Solid State Physics, 1983, 16, L311-L315.	1.5	7
97	Possible incommensurate phase in KFeF4. Zeitschrift Fur Kristallographie - Crystalline Materials, 1983, 163, 135-138.	0.8	0