Pascal marchet

List of Publications by Year
in descending order

77 papers	1,667 citations	279798 23 h-index	315739 38 g-index
84 all docs	84 docs citations	84 times ranked	1786 citing authors

#	Article	IF	Citations
1	Ferroelectric domain wall motion induced by polarized light. Nature Communications, 2015, 6, 6594.	12.8	138
2	Glass Structure and Optical Nonlinearities in Thallium(I) Tellurium(IV) Oxide Glasses. Journal of Solid State Chemistry, 1999, 146, 329-335.	2.9	98
3	New investigations within the TeO2-WO3 system: phase equilibrium diagram and glass crystallization. Journal of Materials Science, 1999, 34, 4285-4292.	3.7	90
4	Role of sintering time, crystalline phases and symmetry in the piezoelectric properties of lead-free KNN-modified ceramics. Materials Chemistry and Physics, 2010, 123, 91-97.	4.0	82
5	Structural and dielectric studies of the Na0.5Bi0.5TiO3â€“BiFeO3 system. Journal of the European Ceramic Society, 2007, 27, 4371-4374.	5.7	65
6	Ferroelectric relaxor behaviour of Na0.5Bi0.5TiO3â€“SrTiO3 ceramics. Physica Status Solidi (B): Basic Research, 2004, 241, 1949-1956.	1.5	51
7	Structural and dielectric study of the Na0.5Bi0.5TiO3â€“PbTiO3 and K0.5Bi0.5TiO3â€“PbTiO3 systems. Journal of Materials Chemistry, 1997, 7, 91-97.	6.7	48
8	Lead-free Na0.5Bi0.5TiO3 ferroelectric thin films grown by Pulsed Laser Deposition on epitaxial platinum bottom electrodes. Thin Solid Films, 2008, 517, 592-597.	1.8	48
9	Preparation of TiO 2 thin films by pulsed laser deposition for waveguiding applications. Applied Surface Science, 1996, 96-98, 836-841.	6.1	46
10	Electrical properties of (110) epitaxial lead-free ferroelectric Na0.5Bi0.5TiO3 thin films grown by pulsed laser deposition: Macroscopic and nanoscale data. Journal of Applied Physics, 2012, 111, .	2.5	46
11	Axial Pressure Influence on Dielectric and Ferroelectric Properties of Na _{0.5} Bi _{0.5} TiO ₃ Ceramic. Physica Status Solidi (B): Basic Research, 2001, 225, 459-466.	1.5	44
12	New heavy metal oxide glasses: investigations within the TeO2â€“Nb2O5â€“Bi2O3 system. Journal of Alloys and Compounds, 2002, 347, 206-212.	5.5	43
13	Macroscopic and nanoscale electrical properties of pulsed laser deposited (100) epitaxial lead-free Na0.5Bi0.5TiO3 thin films. Journal of Applied Physics, 2010, 107, .	2.5	43
14	Effect of MnO doping on the structure, microstructure and electrical properties of the (K,Na,Li)(Nb,Ta,Sb)O3 lead-free piezoceramics. Journal of Alloys and Compounds, 2011, 509, 8804-8811.	5.5	43
15	Structure, microstructure and electrical properties of Cu2+ doped (K,Na,Li)(Nb,Ta,Sb)O3 piezoelectric ceramics. Ceramics International, 2013, 39, 4139-4149.	4.8	43
16	Structural, microstructural and electrical properties evolution of (K,Na,Li)(Nb,Ta,Sb)O3 lead-free piezoceramics through NiO doping. Journal of the European Ceramic Society, 2011, 31, 2309-2317.	5.7	42
17	Piezoceramics properties as a function of the structure in the system (K,Na,Li)(Nb,Ta,Sb)O₃. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1835-1842.	3.0	40
18	Dielectric properties of some low-lead or lead-free perovskite-derived materials: Na0.5Bi0.5TiO3â€“PbZrO3, Na0.5Bi0.5TiO3â€“BiScO3 and Na0.5Bi0.5TiO3â€“BiFeO3 ceramics. Journal of the European Ceramic Society, 2006, 26, 3037-3041.	5.7	38

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19	Properties of the solid solution (1â^'x)Na0.5Bi0.5TiO3â€“(x)BiFeO3. Journal of Magnetism and Magnetic Materials, 2009, 321, 1762-1766.	2.3	36
20	Growth of dense Ti3SiC2 MAX phase films elaborated at room temperature by aerosol deposition method. Journal of the European Ceramic Society, 2014, 34, 1063-1072.	5.7	36
21	Equilibrium and non-equilibrium phase diagram within the TeO2-rich part of the TeO2-Nb2O5 system. Journal of Materials Chemistry, 1999, 9, 1785-1788.	6.7	34
22	Electrical Properties of Na0.5Bi0.5TiO3 â€“ SrTiO3 Ceramics. Integrated Ferroelectrics, 2004, 61, 159-162.	0.7	30
23	Influence of microwave sintering on electrical properties of BCTZ lead free piezoelectric ceramics. Journal of the European Ceramic Society, 2020, 40, 1212-1216.	5.7	28
24	Mechanism of Ni_{1â€“x}Zn_xO Formation by Thermal Treatments on NiO Nanoparticles Dispersed over ZnO. Journal of Physical Chemistry C, 2011, 115, 13577-13583.	3.1	23
25	Composite microstructures and piezoelectric properties in tantalum substituted lead-free K0.5Na0.5Nb1-xTaxO3 ceramics. Ceramics International, 2018, 44, 9463-9471.	4.8	22
26	In situ growth of YBaCuO superconducting thin films by excimer laser ablation: influence of deposition and cooling parameters. Applied Surface Science, 1993, 69, 335-339.	6.1	21
27	Control of the Crystalline Structure and Piezoelectric Properties of (K,Na,Li)(Nb,Ta,Sb)O$_{3}$ Ceramics through Transition Metal Oxide Doping. Applied Physics Express, 2011, 4, 101501.	2.4	21
28	Characterization of the KrF laserâ€induced plasma plume created above a BiSrCaCuO target. Applied Physics Letters, 1990, 56, 1472-1474.	3.3	17
29	Thin Films of Na0.5Bi0.5TiO3 Deposited by Spin-Coating. Integrated Ferroelectrics, 2004, 61, 163-165.	0.7	17
30	Evolution of structural and electrical properties of (K,Na,Li)(Nb,Ta,Sb)O3 lead-free piezoceramics through CoO doping. Solid State Communications, 2011, 151, 1463-1466.	1.9	17
31	Lead free (Li,Na,K)(Nb,Ta,Sb)O3 piezoelectric ceramics: Influence of sintering atmosphere and ZrO2 doping on densification, microstructure and piezoelectric properties. Journal of the European Ceramic Society, 2011, 31, 577-588.	5.7	17
32	From ferroelectric to relaxor behaviour in the Aurivillius-type Bi4â^'xBaxTi3â^'xNbxO12 (0â‰¤xâ‰¤1.4) solid solutions. Materials Letters, 2005, 59, 376-382.	2.6	16
33	Ultra-High Tunability of <inline-formula> <tex-math notation="LaTeX">$ext{Ba}_{(2/3)}ext{Sr}_{(1/3)}ext{TiO}_{3}$</tex-math> </inline-formula>-Based Capacitors Under Low Electric Fields. IEEE Microwave and Wireless Components Letters, 2016, 26, 504-506.	3.2	15
34	The TeO2-rich part of the TeO2â€“Ga2O3system: equilibrium and non-equilibrium phase diagram. Journal of Materials Chemistry, 2002, 12, 2803-2806.	6.7	14
35	New investigations within the TeO2-rich part of the Tl2Oâ€“TeO2 system. Journal of Materials Chemistry, 1998, 8, 1039-1042.	6.7	13
36	Dense and highly textured coatings obtained by aerosol deposition method from Ti3SiC2 powder: Comparison to a dense material sintered by Spark Plasma Sintering. Journal of the European Ceramic Society, 2015, 35, 1179-1189.	5.7	13

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37	Effect of the incident power on permittivity, losses and tunability of BaSrTiO3 thin films in the microwave frequency range. Applied Physics Letters, 2017, 110, .	3.3	13
38	Structure and properties of Bi2Ti2O7 pyrochlore type phase stabilized by lithium. Journal of Alloys and Compounds, 2018, 732, 178-186.	5.5	13
39	Unexpected behaviour of IR reflectivity of a YBa2Cu3O7âˆ'Î´ oriented film. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 34, 74-79.	3.5	12
40	Electrical and Optical Properties of La_{1â€“x}A_xFe_{1â€“y}B_yO_{3âˆ'Î´} Perovskite Films (with A = Sr and Ca, and B= Co, Ga, Ti): Toward Interlayers for Optoelectronic Applications. Journal of Physical Chemistry C, 2016, 120, 28583-28590.	3.1	12
41	Characterization of the KrF laser-induced plasma plume created above an YBaCuO superconducting target and preparation of superconducting thin films. Applied Surface Science, 1990, 46, 78-83.	6.1	11
42	Structure and electrical properties in the K_{1/2}Bi_{1/2}TiO₃â€“K_{1/2}Bi_{1/2}ZrO₃ solid solution (KBTâ€“KBZ). Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2063-2072.	1.8	11
43	Electrical transport properties and modelling of electrostrictive resonance phenomena in Ba2/3Sr1/3TiO3 thin films. Journal of Applied Physics, 2016, 120, .	2.5	11
44	Diffuse phase transition of BST thin films in the microwave domain. Applied Physics Letters, 2018, 112, .	3.3	10
45	Domain wall motions in BST ferroelectric thin films in the microwave frequency range. Applied Physics Letters, 2016, 109, 262902.	3.3	9
46	The Crystal Structure of PbTe5O11. Materials Research Bulletin, 2001, 36, 693-703.	5.2	8
47	{111}-Textured BaTiO3 ceramics elaborated by Templated Grain Growth using NaNbO3 templates. Materials Letters, 2013, 113, 149-151.	2.6	8
48	BaTiO₃ incorporation effect on the dielectric properties of polymer from aqueous emulsion: An enhanced dispersion technique. Journal of Applied Polymer Science, 2016, 133, .	2.6	8
49	Combinatorial solid state chemistry by multitarget laser ablation: a way for the elaboration of new superconducting cuprates thin films?. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 60, 205-211.	3.5	7
50	Complete electroelastic set for the (YXt)-45Â° cut of a KNbO3 single crystal. Journal of Applied Physics, 2014, 116, 194106.	2.5	7
51	Elaboration of lead-free Na 0.5 Bi 0.5 TiO 3 â€“BaTiO 3 (NBT-BT) thick films by aerosol deposition method (ADM). Ceramics International, 2016, 42, 14635-14641.	4.8	7
52	New Insight on the Effect of Yttria-Based Secondary Phases on Sintering and Electrical Behavior of Aluminum Nitride Ceramics. Journal of Materials Engineering and Performance, 2022, 31, 4545-4553.	2.5	7
53	Analysis of infrared-visible-near-ultraviolet reflectivity of conducting and superconducting oxides. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1071-1072.	1.2	6
54	Dielectric Properties of Na0.5Bi0.5TiO3 â€“ BaTiO3 Ceramics. Integrated Ferroelectrics, 2004, 61, 155-158.	0.7	6

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55	Modeling the Electroelastic Moduli of Porous Textured Piezoceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 949-957.	3.0	6
56	Comparative Study on Electrical Conductivity of CeO2-Doped AlN Ceramics Sintered by Hot-Pressing and Spark Plasma Sintering. Materials, 2022, 15, 2399.	2.9	6
57	Thermal, Raman and dielectric study of 0.5K_{0.5}Bi_{0.5}TiO₃â€“0.5PbTiO₃ceramics. Phase Transitions, 2015, 88, 662-667.	1.3	5
58	Toward green threeâ€phase composites with enhanced dielectric permittivity. Journal of Applied Polymer Science, 2018, 135, 46147.	2.6	5
59	Structure and properties of (Na0.5Bi0.5)ZrO3 (NBZ) lead-free perovskite compound. Scripta Materialia, 2019, 161, 13-17.	5.2	5
60	Pulsed laser deposition of YBa2Cu3O7â˜'x superconducting thin films: correlation between preparation conditions and structural and electrical properties. Journal of Alloys and Compounds, 1993, 195, 207-210.	5.5	4
61	Epitaxial ferroelectric PZT and BST thin films by pulsed UV laser deposition. Applied Surface Science, 1996, 96-98, 775-778.	6.1	4
62	Optical conductivity of high-Tccuprate thin films deposited by multi-target laser ablation. Journal of Physics Condensed Matter, 2000, 12, 1517-1525.	1.8	4
63	Correlation between the structure and the piezoelectric properties of lead-free (K,Na,Li)(Nb,Ta,Sb)O3 ceramics studied by XRD and Raman spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1826-1834.	3.0	4
64	Couches minces supraconductrices Ã haute tempÃ©rature critique : corrÃ©lation entre conditions de dÃ©pÃ´t et propriÃ©tÃ©s. Journal De Physique III, 1993, 3, 767-774.	0.3	4
65	Microwave dielectric properties of BNT-BT0.08 thin films prepared by sol-gel technique. Journal of Applied Physics, 2016, 119, 144103.	2.5	3
66	The effects of PbZn1/3Nb2/3O3-doping on structural, thermal, optical, dielectric, and ferroelectric properties of BaTiO3 ceramics. Journal of Applied Physics, 2017, 122, 124105.	2.5	3
67	Synthesis of 0.94 Na0.5Bi0.5TiO3 â€“ 0.06 BaTiO3 (NBT-6BT) lead-free piezoelectric powder suitable for aerosol deposition (AD). Ceramics International, 2022, 48, 14697-14707.	4.8	3
68	Title is missing!. Journal of Materials Science Letters, 1999, 18, 1575-1577.	0.5	2
69	Thin films of high-Tc superconducting cuprates by multi-target laser ablation. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1035-1036.	1.2	1
70	Dielectric Properties of Na0.5Bi0.5TiO3-PbZrO3 Ceramics. Ferroelectrics, 2006, 339, 29-35.	0.6	1
71	Mechanical and electrical properties of a polyester resin reinforced with clay-based fillers. Journal of Mechanical Science and Technology, 2017, 31, 1151-1156.	1.5	1
72	Elaboration and Characterization of Materials from the LaMnO 3 â€“BiMnO 3 Binary System. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900814.	1.8	1

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73	Layered Baî—¸Kî—¸Pbî—¸Bîî—¸O superconductor family: characterization of laser-ablated films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 709-710.	1.2	0
74	<title>Multitarget laser ablation: a way for the elaboration of thin films of high-T<formula><inf><roman>c</roman></inf></formula> superconducting copper oxides</title>. , 1998, , .		0
75	Epitaxial growth and properties of lead-free ferroelectric Na<inf>0.5</inf>Bi<inf>0.5</inf>TiO<inf>3</inf> thin films grown by pulsed laser deposition on various single crystal substrates. , 2012, , .		0
76	Epitaxial ferroelectric PZT and BST thin films by pulsed UV laser deposition. , 1996, , 775-778.		0
77	Preparation of TiO2 thin films by pulsed laser deposition for waveguiding applications. , 1996, , 836-841.		0