Philippe B Barboux

List of Publications by Year
in descending order

72 papers	6,444 citations	101384 36 h-index	88477 70 g-index
74 all docs	74 docs citations	74 times ranked	3632 citing authors

#	Article	IF	Citations
1	Structural and physical properties of the metal (M) substitutedYBa2Cu3â^'xMxO7â^'yperovskite. Physical Review B, 1988, 37, 7458-7469.	1.1	816
2	Crystal substructure and physical properties of the superconducting phaseBi4(Sr,Ca)6Cu4O16+x. Physical Review B, 1988, 37, 9382-9389.	1.1	688
3	Preparation, structure, and properties of the superconducting compound seriesBi2Sr2Canâ^'1CunOywithn=1,2,ÂandÂ3. Physical Review B, 1988, 38, 8885-8892.	1.1	479
4	The use of acetates as precursors for the low-temperature synthesis of LiMn2O4 and LiCoO2 intercalation compounds. Journal of Solid State Chemistry, 1991, 94, 185-196.	1.4	328
5	3d-metal doping of the high-temperature superconducting perovskites La-Sr-Cu-O and Y-Ba-Cu-O. Physical Review B, 1987, 36, 8393-8400.	1.1	292
6	Origin of the incommensurate modulation of the 80-K superconductorBi2Sr2CaCu2O8.21derived from isostructural commensurateBi10Sr15Fe10O46. Physical Review B, 1989, 40, 6810-6816.	1.1	265
7	Role of bond lengths in the 90-K superconductor: A neutron powder-diffraction study ofYBa2Cu3â^'xCoxO7â^'y. Physical Review B, 1988, 37, 5932-5935.	1.1	245
8	Probing in situ the Nucleation and Growth of Gold Nanoparticles by Small-Angle X-ray Scattering. Nano Letters, 2007, 7, 1723-1727.	4.5	245
9	Lowâ€temperature preparation of highTcsuperconducting thin films. Applied Physics Letters, 1988, 52, 754-756.	1.5	236
10	Bismuth cuprate high-Tcsuperconductors using cationic substitution. Physical Review B, 1989, 39, 4316-4326.	1.1	173
11	Determination of dopant site occupancies in Cu-substitutedYBa2Cu3O7â^'Î´by differential anomalous x-ray scattering. Physical Review B, 1989, 39, 9017-9027.	1.1	158
12	Synthesis, Structure and Reactivity of Some Functionalized Zinc and Copper(II) Phosphonates. Inorganic Chemistry, 1995, 34, 148-156.	1.9	157
13	Origin of the 110-K superconducting transition in the Bi-Sr-Ca-Cu-O system. Physical Review B, 1988, 38, 2504-2508.	1.1	129
14	Electrochemical Design of Nanostructured ZnO Charge Carrier Layers for Efficient Solidâ€State Perovskiteâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400932.	10.2	117
15	Structure and magnetic properties of nonsuperconducting doped Co and FeBi2Sr2Cu1â^'xMxOyphases. Physical Review B, 1989, 39, 11587-11598.	1.1	113
16	Oxygen intercalation in the perovskite superconductorYBa2Cu3O6+x. Physical Review B, 1988, 38, 6543-6551.	1.1	101
17	Oxygen-deficiency-induced localized optical excitations inYBa2Cu3Ox. Physical Review B, 1988, 38, 870-873.	1.1	100
18	Optical properties of copper-oxygen planes in superconducting oxides and related materials. Physical Review B, 1989, 40, 6797-6805.	1.1	98

#	Article	IF	Citations
19	Hall-effect anomaly in the high-Tccopper-based perovskites. Physical Review B, 1989, 39, 7324-7327.	1.1	95
20	Bulk and thick films of the superconducting phase YBa2Cu3O7â^'ymade by controlled precipitation and solâ€gel processes. Journal of Applied Physics, 1988, 63, 2725-2729.	1.1	94
21	Chain-site versus plane-site Cu substitution inYBa2Cu3â^'xMxO7(M=Co,Ni): Hall and thermopower studies. Physical Review B, 1989, 39, 777-780.	1.1	94
22	Comparative studies on the surface chemical modification of silica aerogels based on various organosilane compounds of the type RnSiX4â^'n. Journal of Non-Crystalline Solids, 2004, 350, 216-223.	1.5	93
23	New non-superconducting layered Bi-oxide phases of formula Bi2M3Co2Oy containing Co instead of Cu. Solid State Communications, 1989, 71, 663-668.	0.9	87
24	Smooth highTcY1Ba2Cu3Oxfilms by laser deposition at 650â€‰Â°C. Applied Physics Letters, 1988, 53, 517-519.	1.5	71
25	On the effect of glass composition in the dissolution of glasses by water. Journal of Non-Crystalline Solids, 2008, 354, 117-123.	1.5	70
26	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. Advanced Energy Materials, 2022, 12, .	10.2	70
27	Glassâ€“ironâ€“clay interactions in a radioactive waste geological disposal: An integrated laboratory-scale experiment. Applied Geochemistry, 2011, 26, 65-79.	1.4	66
28	Impact of Pore Size and Pore Surface Composition on the Dynamics of Confined Water in Highly Ordered Porous Silica. Journal of Physical Chemistry C, 2012, 116, 7021-7028.	1.5	59
29	Electronic structure of high-TcBa0.6K0.4BiO3by x-ray photoelectron spectroscopy. Physical Review B, 1989, 39, 4752-4755.	1.1	54
30	Antiferromagnetic order inYBa2Cu3â^'xCoxO6+y. Physical Review B, 1988, 38, 9209-9212.	1.1	52
31	Approaching the Mott-Hubbard insulator in the 85-K superconductorBi2(Sr,Ca)3Cu2O8+dby doping with Tm. Physical Review B, 1989, 39, 7320-7323.	1.1	51
32	Chemical and electrochemical insertion of Na into the spinel Î»-MnO2 phase. Solid State Ionics, 1992, 57, 113-120.	1.3	50
33	Diffusion protonique dans les xerogels de pentoxyde de vanadium. Solid State Ionics, 1983, 9-10, 1073-1080.	1.3	45
34	Modification of the Surface Properties of Porous Nanometric Zirconia Particles by Covalent Grafting. Langmuir, 2004, 20, 3449-3455.	1.6	39
35	Metallic clusters in nonstoichiometric gallium oxide films. Journal of Applied Physics, 2011, 109, .	1.1	37
36	Optical characterization of surface and interface oxygen content in YBa2Cu3Ox. Applied Physics Letters, 1988, 53, 2333-2335.	1.5	36

#	Article	IF	Citations
37	Cationic conductivity and structural studies in the Pb8K2â^'xNax(PO4)6 system. Solid State Ionics, 2000, 128, 177-181.	1.3	35
38	Magnetic transitions in the systemYBa2Cu2.8Co0.2O6+y. Physical Review B, 1989, 39, 12375-12378.	1.1	33
39	Synthesis, X-ray and Neutron Diffraction Characterization, and Ionic Conduction Properties of a New Oxothiomolybdate Li3[Mo8S8O8(OH)8{HWO5(H2O)}]â‹…18 H2O. Chemistry - A European Journal, 2002, 8, 349-356.	1.7	31
40	Assessing the Use of BiCuOS for Photovoltaic Application: From DFT to Macroscopic Simulation. Journal of Physical Chemistry C, 2015, 119, 17585-17595.	1.5	31
41	Mid-infrared reflectivity and ellipsometry measurements on single-crystalYBa2Cu3O7andBi2Sr2CuO6+y. Physical Review B, 1989, 40, 6884-6889.	1.1	28
42	Contribution of Monte Carlo Modeling to Understanding the Alteration of Nuclear Glasses by Water. Nuclear Science and Engineering, 2006, 153, 285-300.	0.5	28
43	Thick films of Biâ€Srâ€Caâ€Cuâ€O and Tlâ€Baâ€Caâ€Cuâ€O by solution processes. Journal of Applied Physics, 1988, 64, 6382-6387.	1.1	26
44	Solution synthesis of nanometric layered cobalt oxides for electrochemical applications. Electrochimica Acta, 2012, 66, 306-312.	2.6	24
45	Study of titanium phosphate gels and their application to the synthesis of KTiOPO4 films. Journal of Materials Chemistry, 1993, 3, 393.	6.7	23
46	Chemical Durability of Lanthanumâ€Enriched Borosilicate Glass. International Journal of Applied Glass Science, 2013, 4, 383-394.	1.0	23
47	Observation of orthorhombic-tetragonal phase equilibria inYBa2Cu3â^'xFexO7â^'Î´. Physical Review B, 1988, 38, 2896-2899.	1.1	21
48	On synthesis of high superconducting perovskites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1988, 1, 29-36.	1.7	20
49	Photocatalytic decomposition of fatty stains byTiO2thin films. International Journal of Photoenergy, 2003, 5, 95-98.	1.4	19
50	Octanuclear Oxothiomolybdate(V) Rings: Structure and Ionic-Conducting Properties. Chemistry - A European Journal, 2004, 10, 3026-3032.	1.7	18
51	Some Factors Affecting the Removal of Lead(II) Ions from Aqueous Solution by Porous Calcium Hydroxyapatite: Relationships between Surface and Adsorption Properties. Adsorption Science and Technology, 2006, 24, 507-516.	1.5	18
52	Electronic Band Structure Engineering and Enhanced Thermoelectric Transport Properties in Pb-Doped BiCuOS Oxysulfide. Chemistry of Materials, 2018, 30, 1085-1094.	3.2	18
53	Dielectric and high Tc superconductor applications of sol-gel and modified sol-gel processing to microelectronics technology. Journal of Non-Crystalline Solids, 1990, 121, 454-462.	1.5	15
54	Colloidal processing of PbZr1â€“xTixO3thin films. Journal of Materials Chemistry, 1992, 2, 713-717.	6.7	14

#	Article	IF	Citations
55	Investigation of local environment around rare earths (La and Eu) by fluorescence line narrowing during borosilicate glass alteration. Journal of Luminescence, 2014, 145, 213-218.	1.5	11
56	Search for Li-electrochemical activity and Li-ion conductivity among lithium bismuth oxides. Solid State Ionics, 2015, 283, 68-74.	1.3	11
57	Multilayer high T_c thin film structures fabricated by pulsed laser deposition of Yâ€“Baâ€“Cuâ€“O. Journal of Materials Research, 1989, 4, 1326-1329.	1.2	10
58	Study of the Kinetics of Glass Alteration by Small-Angle X-ray Scattering. Journal of Physical Chemistry B, 2004, 108, 7702-7708.	1.2	10
59	Synthesis of gels in the system Na2Oâ^'ZrO2â^'SiO2. Journal of Sol-Gel Science and Technology, 1997, 8, 229-233.	1.1	9
60	Prediction of Isoelectric Point of Manganese and Cobalt Lamellar Oxides: Application to Controlled Synthesis of Mixed Oxides. Langmuir, 2018, 34, 6670-6677.	1.6	9
61	Solâ€“gel synthesis and catalytic properties of vanadium phosphates. Catalysis Letters, 1999, 62, 79-85.	1.4	7
62	Dissolution of Oxide Glasses:â€‰ A Process Driven by Surface Generation. Journal of Physical Chemistry C, 2008, 112, 1594-1603.	1.5	7
63	Polymorphism in Bi2(SO4)3. Solid State Sciences, 2014, 38, 25-29.	1.5	7
64	Crystallization of textured PbTiO3 films deposited from gels. Journal of Sol-Gel Science and Technology, 1994, 2, 619-622.	1.1	6
65	Sol-gel chemistry for nonlinear optics. , 1992, , .		5
66	Evidence for a threshold in the biosolubility of aluminosilicate vitreous fibers. Journal of Materials Science, 2010, 45, 1154-1159.	1.7	5
67	Rheological study of a gelâ€forming precursor for superconducting YBa2Cu3O7â^'x. Applied Physics Letters, 1988, 53, 700-702.	1.5	4
68	Lithium Battery Technologies. , 2015, , 125-166.		4
69	Textured Î±-HgI2 ceramics for sensitive X-ray detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 808, 35-40.	0.7	4
70	Laser deposition of quality high T/sub c/ superconductor films. IEEE Transactions on Magnetics, 1989, 25, 2441-2444.	1.2	3
71	Microwave Response of Conducting NaxCoO2Â·yH2O Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 13957-13964.	1.5	2
72	Enhancing intergranular conductivity in polycrystalline semiconductor assembly via polythiophene use. Materials Chemistry and Physics, 2019, 232, 400-408.	2.0	2