

# Philippe B Barboux

## List of Publications by Citations

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74  
ext. papers

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ext. citations

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L-index

#	Paper	IF	Citations
72	Structural and physical properties of the metal (M) substituted $\text{YBa}_2\text{Cu}_3\text{-xMxO}_7\text{-y}$ perovskite. <i>Physical Review B</i> , <b>1988</b> , 37, 7458-7469	3.3	791
71	Crystal substructure and physical properties of the superconducting phase $\text{Bi}_4(\text{Sr,Cr})_6\text{Cu}_4\text{O}_{16+x}$ . <i>Physical Review B</i> , <b>1988</b> , 37, 9382-9389	3.3	666
70	Preparation, structure, and properties of the superconducting compound series $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_y$ with $n=1, 2$ , and $3$ . <i>Physical Review B</i> , <b>1988</b> , 38, 8885-8892	3.3	454
69	3d-metal doping of the high-temperature superconducting perovskites $\text{La-Sr-Cu-O}$ and $\text{Y-Ba-Cu-O}$ . <i>Physical Review B</i> , <b>1987</b> , 36, 8393-8400	3.3	280
68	Origin of the incommensurate modulation of the 80-K superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8.21}$ derived from isostructural commensurate $\text{Bi}_{10}\text{Sr}_{15}\text{Fe}_{10}\text{O}_{46}$ . <i>Physical Review B</i> , <b>1989</b> , 40, 6810-6816	3.3	255
67	The use of acetates as precursors for the low-temperature synthesis of $\text{LiMn}_2\text{O}_4$ and $\text{LiCoO}_2$ intercalation compounds. <i>Journal of Solid State Chemistry</i> , <b>1991</b> , 94, 185-196	3.3	248
66	Role of bond lengths in the 90-K superconductor: A neutron powder-diffraction study of $\text{YBa}_2\text{Cu}$ . <i>Physical Review B</i> , <b>1988</b> , 37, 5932-5935	3.3	240
65	Low-temperature preparation of high $T_c$ superconducting thin films. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 754-756	3.4	214
64	Probing in situ the nucleation and growth of gold nanoparticles by small-angle X-ray scattering. <i>Nano Letters</i> , <b>2007</b> , 7, 1723-7	11.5	209
63	Bismuth cuprate high- $T_c$ superconductors using cationic substitution. <i>Physical Review B</i> , <b>1989</b> , 39, 4316-4326	3.3	166
62	Determination of dopant site occupancies in Cu-substituted $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ by differential anomalous x-ray scattering. <i>Physical Review B</i> , <b>1989</b> , 39, 9017-9027	3.3	150
61	Synthesis, Structure and Reactivity of Some Functionalized Zinc and Copper(II) Phosphonates. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 148-156	5.1	128
60	Origin of the 110-K superconducting transition in the $\text{Bi-Sr-Ca-Cu-O}$ system. <i>Physical Review B</i> , <b>1988</b> , 38, 2504-2508	3.3	125
59	Structure and magnetic properties of nonsuperconducting doped Co and Fe $\text{Bi}_2\text{Sr}_2\text{Cu}_{1-x}\text{MxO}_y$ phases. <i>Physical Review B</i> , <b>1989</b> , 39, 11587-11598	3.3	110
58	Electrochemical Design of Nanostructured $\text{ZnO}$ Charge Carrier Layers for Efficient Solid-State Perovskite-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400932	21.8	105
57	Oxygen intercalation in the perovskite superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Physical Review B</i> , <b>1988</b> , 38, 6543-6551	3.3	98
56	Optical properties of copper-oxygen planes in superconducting oxides and related materials. <i>Physical Review B</i> , <b>1989</b> , 40, 6797-6805	3.3	96

55	Oxygen-deficiency-induced localized optical excitations in YBa <sub>2</sub> Cu. <i>Physical Review B</i> , <b>1988</b> , 38, 870-873	3.3	96
54	Chain-site versus plane-site Cu substitution in YBa <sub>2</sub> Cu <sub>3-x</sub> MxO <sub>7</sub> (M=Co,Ni): Hall and thermopower studies. <i>Physical Review B</i> , <b>1989</b> , 39, 777-780	3.3	93
53	Hall-effect anomaly in the high-T <sub>c</sub> copper-based perovskites. <i>Physical Review B</i> , <b>1989</b> , 39, 7324-7327	3.3	89
52	Bulk and thick films of the superconducting phase YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> made by controlled precipitation and sol-gel processes. <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 2725-2729	2.5	84
51	Comparative studies on the surface chemical modification of silica aerogels based on various organosilane compounds of the type R <sub>n</sub> SiX <sub>4-n</sub> . <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 350, 216-223	3.9	82
50	New non-superconducting layered Bi-oxide phases of formula Bi <sub>2</sub> M <sub>3</sub> Co <sub>2</sub> O <sub>y</sub> containing Co instead of Cu. <i>Solid State Communications</i> , <b>1989</b> , 71, 663-668	1.6	77
49	Smooth high T <sub>c</sub> Y <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> films by laser deposition at 650 °C. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 517-519	3.4	65
48	Glass-ion layer interactions in a radioactive waste geological disposal: An integrated laboratory-scale experiment. <i>Applied Geochemistry</i> , <b>2011</b> , 26, 65-79	3.5	58
47	On the effect of glass composition in the dissolution of glasses by water. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 117-123	3.9	57
46	Impact of Pore Size and Pore Surface Composition on the Dynamics of Confined Water in Highly Ordered Porous Silica. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7021-7028	3.8	53
45	Approaching the Mott-Hubbard insulator in the 85-K superconductor Bi <sub>2</sub> (Sr,Ca) <sub>3</sub> Cu <sub>2</sub> O <sub>8+d</sub> by doping with Tm. <i>Physical Review B</i> , <b>1989</b> , 39, 7320-7323	3.3	49
44	Electronic structure of high-T <sub>c</sub> Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> by x-ray photoelectron spectroscopy. <i>Physical Review B</i> , <b>1989</b> , 39, 4752-4755	3.3	47
43	Antiferromagnetic order in YBa <sub>2</sub> Cu <sub>3-x</sub> CoxO <sub>6+y</sub> . <i>Physical Review B</i> , <b>1988</b> , 38, 9209-9212	3.3	47
42	Chemical and electrochemical insertion of Na into the spinel EMnO <sub>2</sub> phase. <i>Solid State Ionics</i> , <b>1992</b> , 57, 113-120	3.3	42
41	Diffusion protonique dans les xerogels de pentoxyde de vanadium. <i>Solid State Ionics</i> , <b>1983</b> , 9-10, 1073-1080	3.9	42
40	Modification of the surface properties of porous nanometric zirconia particles by covalent grafting. <i>Langmuir</i> , <b>2004</b> , 20, 3449-55	4	38
39	Optical characterization of surface and interface oxygen content in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Applied Physics Letters</i> , <b>1988</b> , 53, 2333-2335	3.4	34
38	Magnetic transitions in the system YBa <sub>2</sub> Cu <sub>2.8</sub> Co <sub>0.2</sub> O <sub>6+y</sub> . <i>Physical Review B</i> , <b>1989</b> , 39, 12375-12378	3.3	33

37	Cationic conductivity and structural studies in the $\text{Pb}_8\text{K}_2\text{Na}_x(\text{PO}_4)_6$ system. <i>Solid State Ionics</i> , <b>2000</b> , 128, 177-181	3.3	31
36	Metallic clusters in nonstoichiometric gallium oxide films. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 013711	2.5	30
35	Synthesis, X-ray and neutron diffraction characterization, and ionic conduction properties of a new oxothiomolybdate $\text{Li}_3[\text{Mo}_8\text{S}_8\text{O}_8(\text{OH})_8[\text{H}_2\text{O}]] \times 18\text{H}_2\text{O}$ . <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 349-56	4.8	29
34	Assessing the Use of BiCuOS for Photovoltaic Application: From DFT to Macroscopic Simulation. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17585-17595	3.8	26
33	Contribution of Monte Carlo Modeling to Understanding the Alteration of Nuclear Glasses by Water. <i>Nuclear Science and Engineering</i> , <b>2006</b> , 153, 285-300	1.2	26
32	Mid-infrared reflectivity and ellipsometry measurements on single-crystal $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{Bi}_2\text{Sr}_2\text{CuO}_{6+y}$ . <i>Physical Review B</i> , <b>1989</b> , 40, 6884-6889	3.3	25
31	Thick films of Bi-Sr-Ca-Cu-O and Tl-Ba-Ca-Cu-O by solution processes. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 6382-6387	2.5	23
30	Study of titanium phosphate gels and their application to the synthesis of $\text{KTiOPO}_4$ films. <i>Journal of Materials Chemistry</i> , <b>1993</b> , 3, 393		22
29	Observation of orthorhombic-tetragonal phase equilibria in $\text{YBa}_2\text{Cu}_3-x\text{FexO}_7-\delta$ . <i>Physical Review B</i> , <b>1988</b> , 38, 2896-2899	3.3	21
28	Solution synthesis of nanometric layered cobalt oxides for electrochemical applications. <i>Electrochimica Acta</i> , <b>2012</b> , 66, 306-312	6.7	19
27	Chemical Durability of Lanthanum-Enriched Borosilicate Glass. <i>International Journal of Applied Glass Science</i> , <b>2013</b> , 4, 383-394	1.8	19
26	Photocatalytic decomposition of fatty stains by $\text{TiO}_2$ thin films. <i>International Journal of Photoenergy</i> , <b>2003</b> , 5, 95-98	2.1	18
25	Octanuclear oxothiomolybdate(v) rings: structure and ionic-conducting properties. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 3026-32	4.8	18
24	On synthesis of high superconducting perovskites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1988</b> , 1, 29-36	3.1	18
23	Some Factors Affecting the Removal of Lead(II) Ions from Aqueous Solution by Porous Calcium Hydroxyapatite: Relationships between Surface and Adsorption Properties. <i>Adsorption Science and Technology</i> , <b>2006</b> , 24, 507-516	3.6	16
22	Dielectric and high $T_c$ superconductor applications of sol-gel and modified sol-gel processing to microelectronics technology. <i>Journal of Non-Crystalline Solids</i> , <b>1990</b> , 121, 454-462	3.9	15
21	Colloidal processing of $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ thin films. <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 713-717		14
20	Electronic Band Structure Engineering and Enhanced Thermoelectric Transport Properties in Pb-Doped BiCuOS Oxysulfide. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1085-1094	9.6	13

19	Investigation of local environment around rare earths (La and Eu) by fluorescence line narrowing during borosilicate glass alteration. <i>Journal of Luminescence</i> , <b>2014</b> , 145, 213-218	3.8	10
18	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2102785	21.8	10
17	Study of the Kinetics of Glass Alteration by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 7702-7708	3.4	9
16	Multilayer high T <sub>c</sub> thin film structures fabricated by pulsed laser deposition of YBaCuO. <i>Journal of Materials Research</i> , <b>1989</b> , 4, 1326-1329	2.5	9
15	Search for Li-electrochemical activity and Li-ion conductivity among lithium bismuth oxides. <i>Solid State Ionics</i> , <b>2015</b> , 283, 68-74	3.3	7
14	Dissolution of Oxide Glasses: A Process Driven by Surface Generation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1594-1603	3.8	7
13	Sol-gel synthesis and catalytic properties of vanadium phosphates. <i>Catalysis Letters</i> , <b>1999</b> , 62, 79-85	2.8	6
12	Crystallization of textured PbTiO <sub>3</sub> films deposited from gels. <i>Journal of Sol-Gel Science and Technology</i> , <b>1994</b> , 2, 619-622	2.3	6
11	Polymorphism in Bi <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> . <i>Solid State Sciences</i> , <b>2014</b> , 38, 25-29	3.4	5
10	Sol-gel chemistry for nonlinear optics <b>1992</b> ,		5
9	Prediction of Isoelectric Point of Manganese and Cobalt Lamellar Oxides: Application to Controlled Synthesis of Mixed Oxides. <i>Langmuir</i> , <b>2018</b> , 34, 6670-6677	4	5
8	Evidence for a threshold in the biosolubility of aluminosilicate vitreous fibers. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1154-1159	4.3	4
7	Rheological study of a gel-forming precursor for superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Applied Physics Letters</i> , <b>1988</b> , 53, 700-702	3.4	4
6	Textured HgI <sub>2</sub> ceramics for sensitive X-ray detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2016</b> , 808, 35-40	1.2	3
5	Synthesis of gels in the system Na <sub>2</sub> O-rO <sub>2</sub> -BiO <sub>2</sub> . <i>Journal of Sol-Gel Science and Technology</i> , <b>1997</b> , 8, 229-233	2.3	3
4	Enhancing intergranular conductivity in polycrystalline semiconductor assembly via polythiophene use. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 232, 400-408	4.4	2
3	Lithium Battery Technologies: From the Electrodes to the Batteries <b>2015</b> , 125-166		2
2	Microwave Response of Conducting Na <sub>x</sub> CoO <sub>2</sub> ·yH <sub>2</sub> O Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13957-13964	3.8	2

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