

Philippe B Barboux

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

5,904
citations

34
h-index

74
g-index

74
ext. papers

6,065
ext. citations

4
avg, IF

4.68
L-index

#	Paper	IF	Citations
72	Enhancing intergranular conductivity in polycrystalline semiconductor assembly via polythiophene use. <i>Materials Chemistry and Physics</i> , 2019 , 232, 400-408	4.4	2
71	Electronic Band Structure Engineering and Enhanced Thermoelectric Transport Properties in Pb-Doped BiCuOS Oxysulfide. <i>Chemistry of Materials</i> , 2018 , 30, 1085-1094	9.6	13
70	Prediction of Isoelectric Point of Manganese and Cobalt Lamellar Oxides: Application to Controlled Synthesis of Mixed Oxides. <i>Langmuir</i> , 2018 , 34, 6670-6677	4	5
69	Textured HgI ₂ ceramics for sensitive X-ray detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 808, 35-40	1.2	3
68	Lithium Battery Technologies: From the Electrodes to the Batteries 2015 , 125-166		2
67	Assessing the Use of BiCuOS for Photovoltaic Application: From DFT to Macroscopic Simulation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17585-17595	3.8	26
66	Microwave Response of Conducting Na _x CoO ₂ ·yH ₂ O Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13957-13964	3.8	2
65	Search for Li-electrochemical activity and Li-ion conductivity among lithium bismuth oxides. <i>Solid State Ionics</i> , 2015 , 283, 68-74	3.3	7
64	Investigation of local environment around rare earths (La and Eu) by fluorescence line narrowing during borosilicate glass alteration. <i>Journal of Luminescence</i> , 2014 , 145, 213-218	3.8	10
63	Electrochemical Design of Nanostructured ZnO Charge Carrier Layers for Efficient Solid-State Perovskite-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400932	21.8	105
62	Polymorphism in Bi ₂ (SO ₄) ₃ . <i>Solid State Sciences</i> , 2014 , 38, 25-29	3.4	5
61	Chemical Durability of Lanthanum-Enriched Borosilicate Glass. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 383-394	1.8	19
60	Solution synthesis of nanometric layered cobalt oxides for electrochemical applications. <i>Electrochimica Acta</i> , 2012 , 66, 306-312	6.7	19
59	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> , 2012 , 116, 7021-7028	3.8	53
58	Glass/ion/clay interactions in a radioactive waste geological disposal: An integrated laboratory-scale experiment. <i>Applied Geochemistry</i> , 2011 , 26, 65-79	3.5	58
57	Metallic clusters in nonstoichiometric gallium oxide films. <i>Journal of Applied Physics</i> , 2011 , 109, 013711	2.5	30
56	Evidence for a threshold in the biosolubility of aluminosilicate vitreous fibers. <i>Journal of Materials Science</i> , 2010 , 45, 1154-1159	4.3	4

55	On the effect of glass composition in the dissolution of glasses by water. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 117-123	3.9	57
54	Dissolution of Oxide Glasses: A Process Driven by Surface Generation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1594-1603	3.8	7
53	Probing in situ the nucleation and growth of gold nanoparticles by small-angle X-ray scattering. <i>Nano Letters</i> , 2007 , 7, 1723-7	11.5	209
52	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> , 2006 , 24, 507-516	3.6	16
51	Contribution of Monte Carlo Modeling to Understanding the Alteration of Nuclear Glasses by Water. <i>Nuclear Science and Engineering</i> , 2006 , 153, 285-300	1.2	26
50	Octanuclear oxothiomolybdate(v) rings: structure and ionic-conducting properties. <i>Chemistry - A European Journal</i> , 2004 , 10, 3026-32	4.8	18
49	Modification of the surface properties of porous nanometric zirconia particles by covalent grafting. <i>Langmuir</i> , 2004 , 20, 3449-55	4	38
48	Study of the Kinetics of Glass Alteration by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7702-7708	3.4	9
47	Comparative studies on the surface chemical modification of silica aerogels based on various organosilane compounds of the type R_nSiX_{4-n} . <i>Journal of Non-Crystalline Solids</i> , 2004 , 350, 216-223	3.9	82
46	Photocatalytic decomposition of fatty stains by TiO_2 thin films. <i>International Journal of Photoenergy</i> , 2003 , 5, 95-98	2.1	18
45	Synthesis, X-ray and neutron diffraction characterization, and ionic conduction properties of a new oxothiomolybdate $Li_3[Mo_8S_8O_8(OH)_8[HWO_5(H_2O)]] \times 18H_2O$. <i>Chemistry - A European Journal</i> , 2002 , 8, 349-56	4.8	29
44	Cationic conductivity and structural studies in the $Pb_8K_2Na_x(PO_4)_6$ system. <i>Solid State Ionics</i> , 2000 , 128, 177-181	3.3	31
43	Sol-gel synthesis and catalytic properties of vanadium phosphates. <i>Catalysis Letters</i> , 1999 , 62, 79-85	2.8	6
42	Synthesis of gels in the system $Na_2O-xrO_2-yBi_2O_3$. <i>Journal of Sol-Gel Science and Technology</i> , 1997 , 8, 229-233	2.3	3
41	Synthesis, Structure and Reactivity of Some Functionalized Zinc and Copper(II) Phosphonates. <i>Inorganic Chemistry</i> , 1995 , 34, 148-156	5.1	128
40	Crystallization of textured $PbTiO_3$ films deposited from gels. <i>Journal of Sol-Gel Science and Technology</i> , 1994 , 2, 619-622	2.3	6
39	Study of titanium phosphate gels and their application to the synthesis of $KTiOPO_4$ films. <i>Journal of Materials Chemistry</i> , 1993 , 3, 393		22
38	Sol-gel chemistry for nonlinear optics 1992 ,		5

37	Colloidal processing of PbZr _{1-x} Ti _x O ₃ thin films. <i>Journal of Materials Chemistry</i> , 1992 , 2, 713-717		14
36	Chemical and electrochemical insertion of Na into the spinel EMnO_2 phase. <i>Solid State Ionics</i> , 1992 , 57, 113-120	3-3	42
35	The use of acetates as precursors for the low-temperature synthesis of LiMn ₂ O ₄ and LiCoO ₂ intercalation compounds. <i>Journal of Solid State Chemistry</i> , 1991 , 94, 185-196	3-3	248
34	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> , 1990 , 121, 454-462	3-9	15
33	Multilayer high T _c thin film structures fabricated by pulsed laser deposition of YBaCuO. <i>Journal of Materials Research</i> , 1989 , 4, 1326-1329	2-5	9
32	Chain-site versus plane-site Cu substitution in YBa ₂ Cu _{3-x} M _x O ₇ (M=Co,Ni): Hall and thermopower studies. <i>Physical Review B</i> , 1989 , 39, 777-780	3-3	93
31	Origin of the incommensurate modulation of the 80-K superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8.21} derived from isostructural commensurate Bi ₁₀ Sr ₁₅ Fe ₁₀ O ₄₆ . <i>Physical Review B</i> , 1989 , 40, 6810-6816	3-3	255
30	Approaching the Mott-Hubbard insulator in the 85-K superconductor Bi ₂ (Sr,Ca) ₃ Cu ₂ O _{8+d} by doping with Tm. <i>Physical Review B</i> , 1989 , 39, 7320-7323	3-3	49
29	Mid-infrared reflectivity and ellipsometry measurements on single-crystal YBa ₂ Cu ₃ O ₇ and Bi ₂ Sr ₂ CuO _{6+y} . <i>Physical Review B</i> , 1989 , 40, 6884-6889	3-3	25
28	Bismuth cuprate high-T _c superconductors using cationic substitution. <i>Physical Review B</i> , 1989 , 39, 4316-4326	3-3	166
27	Electronic structure of high-T _c Ba _{0.6} K _{0.4} BiO ₃ by x-ray photoelectron spectroscopy. <i>Physical Review B</i> , 1989 , 39, 4752-4755	3-3	47
26	Hall-effect anomaly in the high-T _c copper-based perovskites. <i>Physical Review B</i> , 1989 , 39, 7324-7327	3-3	89
25	Structure and magnetic properties of nonsuperconducting doped Co and Fe Bi ₂ Sr ₂ Cu _{1-x} M _x O _y phases. <i>Physical Review B</i> , 1989 , 39, 11587-11598	3-3	110
24	Optical properties of copper-oxygen planes in superconducting oxides and related materials. <i>Physical Review B</i> , 1989 , 40, 6797-6805	3-3	96
23	Determination of dopant site occupancies in Cu-substituted YBa ₂ Cu ₃ O _{7-δ} by differential anomalous x-ray scattering. <i>Physical Review B</i> , 1989 , 39, 9017-9027	3-3	150
22	Magnetic transitions in the system YBa ₂ Cu _{2.8} Co _{0.2} O _{6+y} . <i>Physical Review B</i> , 1989 , 39, 12375-12378	3-3	33
21	. <i>IEEE Transactions on Magnetics</i> , 1989 , 25, 2441-2444	2	1
20	New non-superconducting layered Bi-oxide phases of formula Bi ₂ M ₃ Co ₂ O _y containing Co instead of Cu. <i>Solid State Communications</i> , 1989 , 71, 663-668	1.6	77

19	On synthesis of high superconducting perovskites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1988 , 1, 29-36	3.1	18
18	Low-temperature preparation of high T _c superconducting thin films. <i>Applied Physics Letters</i> , 1988 , 52, 754-756	3.4	214
17	Preparation, structure, and properties of the superconducting compound series Bi ₂ Sr ₂ Ca _{n-1} Cu _n O _y with n=1, 2, and 3. <i>Physical Review B</i> , 1988 , 38, 8885-8892	3.3	454
16	Crystal substructure and physical properties of the superconducting phase Bi ₄ (Sr,Cr) ₆ Cu ₄ O _{16+x} . <i>Physical Review B</i> , 1988 , 37, 9382-9389	3.3	666
15	Bulk and thick films of the superconducting phase YBa ₂ Cu ₃ O _{7-δ} made by controlled precipitation and sol-gel processes. <i>Journal of Applied Physics</i> , 1988 , 63, 2725-2729	2.5	84
14	Structural and physical properties of the metal (M) substituted YBa ₂ Cu _{3-x} M _x O _{7-y} perovskite. <i>Physical Review B</i> , 1988 , 37, 7458-7469	3.3	791
13	Thick films of Bi-Sr-Ca-Cu-O and Tl-Ba-Ca-Cu-O by solution processes. <i>Journal of Applied Physics</i> , 1988 , 64, 6382-6387	2.5	23
12	Origin of the 110-K superconducting transition in the Bi-Sr-Ca-Cu-O system. <i>Physical Review B</i> , 1988 , 38, 2504-2508	3.3	125
11	Role of bond lengths in the 90-K superconductor: A neutron powder-diffraction study of YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1988 , 37, 5932-5935	3.3	240
10	Optical characterization of surface and interface oxygen content in YBa ₂ Cu ₃ O _x . <i>Applied Physics Letters</i> , 1988 , 53, 2333-2335	3.4	34
9	Oxygen intercalation in the perovskite superconductor YBa ₂ Cu ₃ O _{6+x} . <i>Physical Review B</i> , 1988 , 38, 6543-6551	3.3	98
8	Oxygen-deficiency-induced localized optical excitations in YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1988 , 38, 870-873	3.3	96
7	Antiferromagnetic order in YBa ₂ Cu _{3-x} Co _x O _{6+y} . <i>Physical Review B</i> , 1988 , 38, 9209-9212	3.3	47
6	Observation of orthorhombic-tetragonal phase equilibria in YBa ₂ Cu _{3-x} FexO _{7-δ} . <i>Physical Review B</i> , 1988 , 38, 2896-2899	3.3	21
5	Rheological study of a gel-forming precursor for superconducting YBa ₂ Cu ₃ O _{7-δ} . <i>Applied Physics Letters</i> , 1988 , 53, 700-702	3.4	4
4	Smooth high T _c Y ₁ Ba ₂ Cu ₃ O _x films by laser deposition at 650 °C. <i>Applied Physics Letters</i> , 1988 , 53, 517-519	3.4	65
3	3d-metal doping of the high-temperature superconducting perovskites La-Sr-Cu-O and Y-Ba-Cu-O. <i>Physical Review B</i> , 1987 , 36, 8393-8400	3.3	280
2	Diffusion protonique dans les xerogels de pentoxyde de vanadium. <i>Solid State Ionics</i> , 1983 , 9-10, 1073-1080	3.3	42

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