Maurizio Bellotto

List of Publications by Year
in descending order

59 papers	2,417 citations	304743 22 h-index	197818 49 g-index
62 all docs	62 docs citations	62 times ranked	2239 citing authors

#	Article	IF	Citations
1	A Reexamination of Hydrotalcite Crystal Chemistry. The Journal of Physical Chemistry, 1996, 100, 8527-8534.	2.9	396
2	Hydrotalcite Decomposition Mechanism:Â A Clue to the Structure and Reactivity of Spinel-like Mixed Oxides. The Journal of Physical Chemistry, 1996, 100, 8535-8542.	2.9	233
3	Kinetic study of the kaolinite-mullite reaction sequence. Part I: Kaolinite dehydroxylation. Physics and Chemistry of Minerals, 1995, 22, 207.	0.8	179
4	Preparation and characterization of hexaaluminate-based materials for catalytic combustion. Applied Catalysis A: General, 1993, 104, 101-108.	4.3	165
5	Grazing incidence synchrotron x-ray diffraction method for analyzing thin films. Journal of Materials Research, 1987, 2, 471-477.	2.6	159
6	Crystal structures of quartz and magnesium germanate by profile analysis of synchrotron-radiation high-resolution powder data. Journal of Applied Crystallography, 1988, 21, 182-191.	4.5	139
7	Kinetic study of the kaolinite-mullite reaction sequence. Part II: Mullite formation. Physics and Chemistry of Minerals, 1995, 22, 215.	0.8	119
8	Phase composition and mechanism of formation of Ba-Î²-alumina-type systems for catalytic combustion prepared by precipitation. Journal of Materials Science, 1994, 29, 3441-3450.	3.7	86
9	Modelling the structure of the metastable phases in the reaction sequence kaolinite-mullite by X-ray scattering experiments. Physics and Chemistry of Minerals, 1998, 25, 442-452.	0.8	77
10	On the Crystal Structure and Cation Valence of Mn in Mn-Substituted Ba-Î²-Al2O3. Journal of Catalysis, 1998, 179, 597-605.	6.2	70
11	Cement paste prior to setting: A rheological approach. Cement and Concrete Research, 2013, 52, 161-168.	11.0	62
12	Stabilization of lead contaminated soil with traditional and alternative binders. Journal of Hazardous Materials, 2020, 382, 120990.	12.4	59
13	The Crystal Structure of Ba-Î²-Alumina Materials for High-Temperature Catalytic Combustion. Journal of Solid State Chemistry, 1995, 114, 326-336.	2.9	55
14	Nature of Structural Disorder in Natural Kaolinites: A New Model Based on Computer Simulation of Powder Diffraction Data and Electrostatic Energy Calculation. Clays and Clay Minerals, 1995, 43, 438-445.	1.3	53
15	Natural additives and biopolymers for raw earth construction stabilization â€“ a review. Construction and Building Materials, 2021, 304, 124507.	7.2	53
16	On the morphological properties of tungsta-titania de-NO_xing catalysts. Journal of Materials Research, 1993, 8, 2019-2025.	2.6	45
17	FT-IR Skeletal Powder Spectra of Ba-Î²-Aluminas with Compositions BaAl9O14.5, BaAl12O19, and BaAl14O22 and of Ba-Ferrite, BaFe12O19. Journal of Solid State Chemistry, 1995, 117, 8-15.	2.9	44
18	Heavy-Metal Phytoremediation from Livestock Wastewater and Exploitation of Exhausted Biomass. International Journal of Environmental Research and Public Health, 2021, 18, 2239.	2.6	36

#	Article	IF	Citations
19	Title is missing!. Journal of Materials Science, 1999, 34, 2609-2620.	3.7	29
20	Elasticity and yielding of a calcite paste: scaling laws in a dense colloidal suspension. Soft Matter, 2017, 13, 2014-2023.	2.7	28
21	The refractive-index correction in powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 1988, 44, 193-197.	0.3	24
22	A Fresh View on Limestone Calcined Clay Cement (LC3) Pastes. Materials, 2021, 14, 3037.	2.9	24
23	Time- and space-resolved dynamic studies on ceramic and cementitious materials. Journal of Synchrotron Radiation, 2000, 7, 167-177.	2.4	23
24	A dynamic leaching method for the assessment of trace metals released from hydraulic binders. Waste Management, 2002, 22, 153-157.	7.4	21
25	Influence of the oxygen stoichiometry on the structural and optical properties of reactively evaporated ZrOxfilms. Applied Physics Letters, 1993, 63, 2056-2058.	3.3	20
26	Particle packing and rheology of cement pastes at different replacement levels of cement by Î±-Al2O3 submicron particles. Construction and Building Materials, 2017, 139, 256-266.	7.2	18
27	Mn crystal chemistry in pumpellyite; a resonant scattering powder diffraction Rietveld study using synchrotron radiation. American Mineralogist, 1996, 81, 603-610.	1.9	17
28	Influence of cellulose nanofibrils on the rheology, microstructure and strength of alkali activated ground granulated blast-furnace slag: a comparison with ordinary Portland cement. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	16
29	Rare Earths (La, Y, and Nd) Adsorption Behaviour towards Mineral Clays and Organoclays: Monoionic and Trionic Solutions. Minerals (Basel, Switzerland), 2021, 11, 30.	2.0	13
30	Quantitative X-Ray Diffraction Rietveld Analysis of Low Temperature Coal Ashes. Materials Science Forum, 1991, 79-82, 745-750.	0.3	12
31	Mechanism of Pseudo-Boehmite Dehydration: Influence of Reagent Structure and Reaction Kinetics on the Transformation Sequence. Materials Science Forum, 1998, 278-281, 572-577.	0.3	12
32	High Temperature Phase Transitions in Kaolinite: The Influence of Disorder and Kinetics on the Reaction Path. Materials Science Forum, 1994, 166-169, 3-22.	0.3	11
33	5. Role of hydrotalcite-type layered double hydroxides in delayed pozzolanic reactions and their bearing on mortar dating. , 2017, , 147-158.		11
34	Capture Mechanism of La and Cu Ions in Mixed Solutions by Clay and Organoclay. Industrial & Engineering Chemistry Research, 2021, 60, 6803-6813.	3.7	10
35	Reduced Graphene Oxide Membranes as Potential Self-Assembling Filter for Wastewater Treatment. Minerals (Basel, Switzerland), 2021, 11, 15.	2.0	10
36	Structural investigation on a spinel-related Zn/Cr = 1 mixed-oxide system. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 895.	1.0	9

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37	Simple ions control the elasticity of calcite gels via interparticle forces. Journal of Colloid and Interface Science, 2019, 553, 280-288.	9.4	9
38	Small oscillatory rheology and cementitious particle interactions. Cement and Concrete Research, 2022, 157, 106790.	11.0	8
39	Compositional characterization of Etruscan earthen architecture and ceramic production. Archaeometry, 2020, 62, 1130-1144.	1.3	7
40	Capture and release mechanism of La ions by new polyamine-based organoclays: A model system for rare-earths recovery in urban mining process. Journal of Environmental Chemical Engineering, 2021, 9, 104730.	6.7	7
41	Wastewater Treatment Using Alkali-Activated-Based Sorbents Produced from Blast Furnace Slag. Applied Sciences (Switzerland), 2021, 11, 2985.	2.5	7
42	High-temperaturein situRietveld study of Fe,Mg cation partitioning in olivine. Powder Diffraction, 1994, 9, 63-67.	0.2	5
43	High Temperature Phase Transition of Muscovite-2M₁: Angle and Energy Dispersive Powder Diffraction Studies. Materials Science Forum, 1994, 166-169, 547-552.	0.3	4
44	Inhomogeneity and Microstructure in e-Beam Evaporated ZrO₂ Films. Materials Research Society Symposia Proceedings, 1990, 208, 137.	0.1	3
45	Fly ash from a coal power plant: Correlation of elemental and structural composition with electrostatic precipitator collection efficiency. Journal of Aerosol Science, 1990, 21, S697-S701.	3.8	3
46	Thermal Expansion of C₃S and Mg-Doped Alite. Materials Science Forum, 1998, 278-281, 384-389.	0.3	3
47	On the preparation of concentrated gypsum slurry to reuse sulfate-process TiO2 byproduct stream. Journal of Cleaner Production, 2018, 195, 1468-1475.	9.3	3
48	Characterization of clays and the technology of Roman ceramics production. Clay Minerals, 2018, 53, 413-429.	0.6	3
49	Lattice Parameter Determination using Synchrotron Powder Data. , 1987, , 373-382.		3
50	Lattice Parameter Determination Using Synchrotron Powder Data. Advances in X-ray Analysis, 1986, 30, 373-382.	0.0	2
51	Preparation chemistry and phase transformations in the Zn-Mn-Cr-O systemâ˜†. Solid State Ionics, 1989, 32-33, 112-122.	2.7	2
52	The Role of Powder X-Ray Diffraction in the Cement Industry: Recent Advances and Future Developments. Materials Science Forum, 1998, 278-281, 846-851.	0.3	2
53	Natural Clays as Potential Amino Acids Carriers for Animal Nutrition Application. Applied Sciences (Switzerland), 2021, 11, 5669.	2.5	2
54	Capture and Release Mechanism of Ni and La Ions via Solid/Liquid Process: Use of Polymer-Modified Clay and Activated Carbons. Polymers, 2022, 14, 485.	4.5	2

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55	Optimization of Anti-creep Admixtures for Plasterboards. , 2013, , .		1
56	Hydrotalcite Thermal Decomposition Mechanism: In Situ Study by XRD, AWAXS and EXAFS of a Layered Catalyst Precursor. Materials Science Forum, 1996, 228-231, 347-352.	0.3	0
57	Assessment of an In-Situ Reactor Cell: Temperature Calibration and Reliability of Diffracted Intensity. Materials Science Forum, 1996, 228-231, 153-160.	0.3	0
58	Contribution Ã la dÃ©termination de la structure de l'alite par diffraction des rayons X sur poudres. European Physical Journal Special Topics, 1998, 08, Pr5-511-Pr5-518.	0.2	0
59	Influence of supplementary cementitious materials on factors controlling the fresh state of hydraulic binders. Materials Today: Proceedings, 2022, , .	1.8	0