

# Miguel Ag Aranda

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1296822/publications.pdf>

Version: 2024-02-01

219  
papers

10,647  
citations

25423

59  
h-index

48101

92  
g-index

223  
all docs

223  
docs citations

223  
times ranked

8839  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-selective degree of hydration at setting: An in situ synchrotron diffraction study. <i>Construction and Building Materials</i> , 2022, 328, 127117.	3.2	4
2	Portland and Belite Cement Hydration Acceleration by C-S-H Seeds with Variable w/c Ratios. <i>Materials</i> , 2022, 15, 3553.	1.3	12
3	Belite cements and their activation. <i>Cement and Concrete Research</i> , 2021, 140, 106319.	4.6	93
4	X-ray Total Scattering Study of Phases Formed from Cement Phases Carbonation. <i>Minerals (Basel)</i> , 2021, 11, 1080.	0.8	4
5	Local structure and Ca/Si ratio in C-S-H gels from hydration of blends of tricalcium silicate and silica fume. <i>Cement and Concrete Research</i> , 2021, 143, 106405.	4.6	45
6	Effect of Boron and Water-to-Cement Ratio on the Performances of Laboratory Prepared Belite-Ye'elinite-Ferrite (BYF) Cements. <i>Materials</i> , 2021, 14, 4862.	1.3	6
7	Phase and microstructure evolutions in LC3 binders by multi-technique approach including synchrotron microtomography. <i>Construction and Building Materials</i> , 2021, 300, 124054.	3.2	15
8	Influence of curing temperature on belite cement hydration: A comparative study with Portland cement. <i>Cement and Concrete Research</i> , 2021, 147, 106499.	4.6	49
9	Accuracy in Cement Hydration Investigations: Combined X-ray Microtomography and Powder Diffraction Analyses. <i>Materials</i> , 2021, 14, 6953.	1.3	4
10	Absorption conformations in the intercalation process of polycarboxylate ether based superplasticizers into montmorillonite clay. <i>Construction and Building Materials</i> , 2020, 236, 116657.	3.2	19
11	Processing and characterisation of standard and doped alite-belite-ye'elinite ecocement pastes and mortars. <i>Cement and Concrete Research</i> , 2020, 127, 105911.	4.6	24
12	Belite hydration at high temperature and pressure by in situ synchrotron powder diffraction. <i>Construction and Building Materials</i> , 2020, 262, 120825.	3.2	8
13	Calcium aluminate cement conversion analysed by ptychographic nanotomography. <i>Cement and Concrete Research</i> , 2020, 137, 106201.	4.6	22
14	Hydration Activation of Alite-Belite-Ye'elinite Cements by Doping with Boron. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3583-3590.	3.2	6
15	Synchrotron pair distribution function analyses of ye'elinite-based pastes. <i>Advances in Cement Research</i> , 2019, 31, 138-146.	0.7	7
16	Rietveld Quantitative Phase Analysis of Oil Well Cement: In Situ Hydration Study at 150 Bars and 150 °C. <i>Materials</i> , 2019, 12, 1897.	1.3	3
17	Influence of the polymer structure of polycarboxylate-based superplasticizers on the intercalation behaviour in montmorillonite clays. <i>Construction and Building Materials</i> , 2019, 220, 285-296.	3.2	22
18	A Comparative Study of Experimental Configurations in Synchrotron Pair Distribution Function. <i>Materials</i> , 2019, 12, 1347.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Efficacy of aldose reductase inhibitors is affected by oxidative stress induced under X-ray irradiation. <i>Scientific Reports</i> , 2019, 9, 3177.	1.6	11
20	First-Principles Calculations on Polymorphs of Dicalcium Silicate—Belite, a Main Component of Portland Cement. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6768-6777.	1.5	17
21	Influence of experimental procedure on d-spacing measurement by XRD of montmorillonite clay pastes containing PCE-based superplasticizer. <i>Cement and Concrete Research</i> , 2019, 116, 266-272.	4.6	35
22	The role of porosity in external sulphate attack. <i>Cement and Concrete Composites</i> , 2019, 97, 1-12.	4.6	68
23	Effects of biaxial confinement in mortars exposed to external sulfate attack. <i>Cement and Concrete Composites</i> , 2019, 95, 111-127.	4.6	23
24	Alite-belite-ye'elimite cements: Effect of dopants on the clinker phase composition and properties. <i>Cement and Concrete Research</i> , 2019, 115, 192-202.	4.6	41
25	Rietveld quantitative phase analyses of SRM 2686a: A standard Portland clinker. <i>Cement and Concrete Research</i> , 2019, 115, 361-366.	4.6	23
26	High-pressure and -temperature spinning capillary cell for <i>in situ</i> synchrotron X-ray powder diffraction. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1238-1244.	1.0	4
27	Quantitative disentanglement of nanocrystalline phases in cement pastes by synchrotron ptychographic X-ray tomography. <i>IUCr</i> , 2019, 6, 473-491.	1.0	22
28	X-ray diffraction, cements and environment, three worlds in one.. <i>MATEC Web of Conferences</i> , 2018, 149, 01003.	0.1	1
29	Sharing powder diffraction raw data: challenges and benefits. <i>Journal of Applied Crystallography</i> , 2018, 51, 1739-1744.	1.9	4
30	High-Throughput Synthesis of Pillared-Layered Magnesium Tetrphosphonate Coordination Polymers: Framework Interconversions and Proton Conductivity Studies. <i>Inorganics</i> , 2018, 6, 96.	1.2	4
31	Multiscale understanding of tricalcium silicate hydration reactions. <i>Scientific Reports</i> , 2018, 8, 8544.	1.6	92
32	X-ray diffraction, cements and environment, three worlds in one.. <i>MATEC Web of Conferences</i> , 2018, 149, 01003.	0.1	0
33	Chemistry and Mass Density of Aluminum Hydroxide Gel in Eco-Cements by Ptychographic X-ray Computed Tomography. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3044-3054.	1.5	37
34	Uridine as a new scavenger for synchrotron-based structural biology techniques. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 53-62.	1.0	19
35	Structural variability in $M^{2+}$ 2-hydroxyphosphonoacetate moderate proton conductors. <i>Pure and Applied Chemistry</i> , 2017, 89, 75-87.	0.9	10
36	Clinkering and hydration of belite-alite-ye'elimite cement. <i>Cement and Concrete Composites</i> , 2017, 80, 333-341.	4.6	55

#	ARTICLE	IF	CITATIONS
37	Influence of early sulfate exposure on the pore network development of mortars. <i>Construction and Building Materials</i> , 2017, 143, 33-47.	3.2	13
38	Experimental and theoretical high pressure study of calcium hydroxyaluminate phases. <i>Cement and Concrete Research</i> , 2017, 97, 1-10.	4.6	8
39	Aluminum hydroxide gel characterization within a calcium aluminate cement paste by combined Pair Distribution Function and Rietveld analyses. <i>Cement and Concrete Research</i> , 2017, 96, 1-12.	4.6	40
40	2. Diffraction and crystallography applied to hydrating cements. , 2017, , 31-60.		3
41	1. Diffraction and crystallography applied to anhydrous cements. , 2017, , 3-30.		5
42	Synchrotron Radiation Pair Distribution Function Analysis of Gels in Cements. <i>Crystals</i> , 2017, 7, 317.	1.0	18
43	Structure of stratlingite and effect of hydration methodology on microstructure. <i>Advances in Cement Research</i> , 2016, 28, 13-22.	0.7	35
44	Hydration of belite-ye'elinite-ferrite cements with different calcium sulfate sources. <i>Advances in Cement Research</i> , 2016, 28, 529-543.	0.7	47
45	Tailored setting times with high compressive strengths in bassanite calcium sulfoaluminate eco-cements. <i>Cement and Concrete Composites</i> , 2016, 72, 39-47.	4.6	29
46	Accuracy in Rietveld quantitative phase analysis: a comparative study of strictly monochromatic Mo and Cu radiations. <i>Journal of Applied Crystallography</i> , 2016, 49, 722-735.	1.9	37
47	Early age hydration of cement pastes with alkaline and alkali-free accelerators for sprayed concrete. <i>Construction and Building Materials</i> , 2016, 111, 386-398.	3.2	170
48	Recent studies of cements and concretes by synchrotron radiation crystallographic and cognate methods. <i>Crystallography Reviews</i> , 2016, 22, 150-196.	0.4	38
49	Amorphous determination in calcium sulfoaluminate materials by external and internal methods. <i>Advances in Cement Research</i> , 2015, 27, 417-423.	0.7	15
50	<sc>G</sc>-Factor, a Suitable Tool for Characterization of Ancient Ceramics: Application to Monitoring Amphorae Phase Transformations in Firing. <i>Archaeometry</i> , 2015, 57, 110-129.	0.6	3
51	Hydration of C4AF in the presence of other phases: A synchrotron X-ray powder diffraction study. <i>Construction and Building Materials</i> , 2015, 101, 818-827.	3.2	39
52	In Situ Bragg Coherent Diffraction Imaging Study of a Cement Phase Microcrystal during Hydration. <i>Crystal Growth and Design</i> , 2015, 15, 3087-3091.	1.4	27
53	Rietveld quantitative phase analysis with molybdenum radiation. <i>Powder Diffraction</i> , 2015, 30, 25-35.	0.4	6
54	Tuning Proton Conductivity in Alkali Metal Phosphonocarboxylates by Cation Size-Induced and Water-Facilitated Proton Transfer Pathways. <i>Chemistry of Materials</i> , 2015, 27, 424-435.	3.2	82

#	ARTICLE	IF	CITATIONS
55	Strontium and cobalt doped-lanthanum chromite: Characterisation of synthesised powders and sintered materials. <i>Ceramics International</i> , 2015, 41, 1177-1187.	2.3	13
56	Effect of calcium sulfate source on the hydration of calcium sulfoaluminate eco-cement. <i>Cement and Concrete Composites</i> , 2015, 55, 53-61.	4.6	165
57	Combined Raman spectroscopic and Rietveld analyses as a useful and nondestructive approach to studying flint raw materials at prehistoric archaeological sites. <i>Archaeological and Anthropological Sciences</i> , 2015, 7, 235-243.	0.7	11
58	Guest Molecule-Responsive Functional Calcium Phosphonate Frameworks for Tuned Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 5731-5739.	6.6	206
59	The Baetican workshops: a starting point to study Terra Sigillata Hispanica. <i>Journal of Archaeological Science</i> , 2014, 45, 26-35.	1.2	7
60	Pseudocubic Crystal Structure and Phase Transition in Doped Ye'elimitite. <i>Crystal Growth and Design</i> , 2014, 14, 5158-5163.	1.4	71
61	New insights on blue pigments used in 15th century paintings by synchrotron radiation-based micro-FTIR and XRD. <i>Analytical Methods</i> , 2014, 6, 3610.	1.3	33
62	Hydration mechanisms of two polymorphs of synthetic ye'elimitite. <i>Cement and Concrete Research</i> , 2014, 63, 127-136.	4.6	114
63	In-situ early-age hydration study of sulfobelite cements by synchrotron powder diffraction. <i>Cement and Concrete Research</i> , 2014, 56, 12-19.	4.6	52
64	Mechanism of stabilization of dicalcium silicate solid solution with aluminium. <i>Dalton Transactions</i> , 2014, 43, 2176-2182.	1.6	32
65	Terra-cotta figurines from the Roman theatre of Malaga (Spain): An archaeometric study. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2014, 53, 139-148.	0.9	3
66	Structural Variability in Multifunctional Metal Xylenediaminetetraphosphonate Hybrids. <i>Inorganic Chemistry</i> , 2013, 52, 8770-8783.	1.9	46
67	Structure, Atomistic Simulations, and Phase Transition of Stoichiometric Yeelimitite. <i>Chemistry of Materials</i> , 2013, 25, 1680-1687.	3.2	123
68	Hydration studies of calcium sulfoaluminate cements blended with fly ash. <i>Cement and Concrete Research</i> , 2013, 54, 12-20.	4.6	152
69	Structural and Conducting Features of Niobium-Doped Lanthanum Tungstate, $\text{La}_{27}(\text{W}_{1-x}\text{Nb}_x)_5\text{O}_{55.55}$ . <i>Chemistry of Materials</i> , 2013, 25, 448-456.	3.2	41
70	Sulfoaluminate cement. , 2013, , 488-522.		51
71	Hydration Reactions and Mechanical Strength Developments of Iron-Rich Sulfobelite Eco-cements. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 16606-16614.	1.8	60
72	Multifunctional lanthanum tetraphosphonates: Flexible, ultramicroporous and proton-conducting hybrid frameworks. <i>Dalton Transactions</i> , 2012, 41, 4045.	1.6	85

#	ARTICLE	IF	CITATIONS
73	Photodegradation of Phenol over a Hybrid Organo-Inorganic Material: Iron(II) Hydroxyphosphonoacetate. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14526-14533.	1.5	13
74	Rietveld Quantitative Phase Analysis of OPC Clinkers, Cements and Hydration Products. <i>Reviews in Mineralogy and Geochemistry</i> , 2012, 74, 169-209.	2.2	119
75	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. <i>CrystEngComm</i> , 2012, 14, 5385.	1.3	32
76	Preparation of photocatalytic TiO <sub>2</sub> coatings by gel-dipping with polysaccharides. <i>Ceramics International</i> , 2012, 38, 6531-6540.	2.3	10
77	High Proton Conductivity in a Flexible, Cross-Linked, Ultramicroporous Magnesium Tetrakisphosphate Hybrid Framework. <i>Inorganic Chemistry</i> , 2012, 51, 7689-7698.	1.9	118
78	Multifunctional Luminescent and Proton-Conducting Lanthanide Carboxyphosphate Open-Framework Hybrids Exhibiting Crystalline-to-Amorphous-to-Crystalline Transformations. <i>Chemistry of Materials</i> , 2012, 24, 3780-3792.	3.2	162
79	2D Corrugated Magnesium Carboxyphosphate Materials: Topotactic Transformations and Interlayer "Decorations" with Ammonia. <i>Inorganic Chemistry</i> , 2012, 51, 7889-7896.	1.9	18
80	5. Rietveld Quantitative Phase Analysis of OPC Clinkers, Cements and Hydration Products. , 2012, , 169-210.		0
81	Colloidal Processing of Macroporous $\text{TiO}_2$ Materials for Photocatalytic Water Treatment. <i>Journal of the American Ceramic Society</i> , 2012, 95, 502-508.	1.9	29
82	Rheological and hydration characterization of calcium sulfoaluminate cement pastes. <i>Cement and Concrete Composites</i> , 2012, 34, 684-691.	4.6	96
83	Reactive belite stabilization mechanisms by boron-bearing dopants. <i>Cement and Concrete Research</i> , 2012, 42, 598-606.	4.6	76
84	Rietveld quantitative phase analysis of Yeelimite-containing cements. <i>Cement and Concrete Research</i> , 2012, 42, 960-971.	4.6	184
85	Oxy-apatite reaction sintering of colloidal and classic ceramic processed powders. <i>Ceramics International</i> , 2012, 38, 1851-1858.	2.3	9
86	Single step reactive sintering and chemical compatibility between La <sub>9</sub> Sr <sub>1</sub> Si <sub>6</sub> O <sub>26.5</sub> and selected cathode materials. <i>Ceramics International</i> , 2012, 38, 3327-3335.	2.3	12
87	Structural characterization of bulk ZrTiO <sub>4</sub> and its potential for thermal shock applications. <i>Journal of the European Ceramic Society</i> , 2012, 32, 299-306.	2.8	36
88	Reaction sintered zirconium titanate "zirconia bulk materials from 3Y <sub>2</sub> O <sub>3</sub> -stabilized zirconia and TiO <sub>2</sub> . Phase composition and their potential for thermal shock applications. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1205-1211.	2.8	10
89	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. <i>Crystal Growth and Design</i> , 2011, 11, 1713-1722.	1.4	32
90	Powder diffraction analysis of gemstone inclusions. <i>Powder Diffraction</i> , 2011, 26, 48-52.	0.4	4

#	ARTICLE	IF	CITATIONS
91	Ceramic Pigments and the European REACH Legislation: Black Fe <sub>2</sub> O <sub>3</sub> -Cr <sub>2</sub> O <sub>3</sub> , a Case Study. International Journal of Applied Ceramic Technology, 2011, 8, 905-910.	1.1	4
92	Colloidal Processing and Characterization of Aluminum-Doped Lanthanum Oxyapatite, La <sub>10</sub> AlSi <sub>5</sub> O <sub>26.5</sub> . Journal of the American Ceramic Society, 2011, 94, 117-123.	1.9	12
93	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. Inorganic Chemistry, 2011, 50, 11202-11211.	1.9	25
94	<i>In situ</i> powder diffraction study of belite sulfoaluminate clinkering. Journal of Synchrotron Radiation, 2011, 18, 506-514.	1.0	35
95	Preparation of aluminium lanthanum oxyapatite tapes, La <sub>10</sub> AlSi <sub>5</sub> O <sub>26.5</sub> , by tape casting and reaction sintering. Journal of the European Ceramic Society, 2011, 31, 1573-1580.	2.8	20
96	Multilevel hierarchy of phase separation processes in La <sub>5</sub> Ca <sub>8</sub> Si <sub>18</sub> O <sub>62</sub> . Physical Review Letters, 2011, 106, 155701.	1.1	18
97	Stepwise Topotactic Transformations (1D to 3D) in Copper Carboxyphosphonate Materials: Structural Correlations. Crystal Growth and Design, 2010, 10, 357-364.	1.4	43
98	Evaluation of apatite silicates as solid oxide fuel cell electrolytes. Journal of Power Sources, 2010, 195, 2496-2506.	4.0	80
99	Effects of the A-site cation number on the properties of Ln <sub>5</sub> /M <sub>3</sub> /MnO <sub>3</sub> manganites. Journal of Solid State Chemistry, 2010, 183, 1083-1089.	1.4	12
100	Redox behaviour, chemical compatibility and electrochemical performance of Sr <sub>2</sub> MgMoO <sub>6</sub> as SOFC anode. Solid State Ionics, 2010, 180, 1672-1682.	1.3	96
101	Coherent X-ray diffraction investigation of twinned microcrystals. Journal of Synchrotron Radiation, 2010, 17, 751-760.	1.0	19
102	Structural Mapping and Framework Interconversions in 1D, 2D, and 3D Divalent Metal <i>R<sub>2</sub>S</i> -Hydroxyphosphonoacetate Hybrids. Inorganic Chemistry, 2010, 49, 761-768.	1.9	33
103	Aluminum-rich belite sulfoaluminate cements: Clinkering and early age hydration. Cement and Concrete Research, 2010, 40, 359-369.	4.6	120
104	Active Iron-Rich Belite Sulfoaluminate Cements: Clinkering and Hydration. Environmental Science & Technology, 2010, 44, 6855-6862.	4.6	90
105	Breathing in Adsorbate-Responsive Metal Tetraphosphonate Hybrid Materials. Chemistry - A European Journal, 2009, 15, 6612-6618.	1.7	40
106	Round robin on Rietveld quantitative phase analysis of Portland cements. Journal of Applied Crystallography, 2009, 42, 906-916.	1.9	62
107	Evolution with Temperature of Crystalline and Amorphous Phases in Porcelain Stoneware. Journal of the American Ceramic Society, 2009, 92, 229-234.	1.9	92
108	Microstructure and Oxide Ion Conductivity in a Dense La <sub>9.33</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> Oxyapatite. Journal of the American Ceramic Society, 2009, 92, 1062-1068.	1.9	41

#	ARTICLE	IF	CITATIONS
109	Phase development in conventional and active belite cement pastes by Rietveld analysis and chemical constraints. <i>Cement and Concrete Research</i> , 2009, 39, 833-842.	4.6	65
110	Structure and charge order in the antiferromagnetic band-insulating phase of $\text{NdNiO}_3$ . <i>Physical Review B</i> , 2009, 79, .	11.3	87
111	Orthogonal non-covalent binding forces in solid state supramolecular herringbone-shaped $\pi$ -interlocked dimers. Pseudopolymorphism in $[(\text{ppy})\text{Pd}(\frac{1}{4}\text{-pz})]_2$ (ppy = 2-(2-pyridyl)phenyl, pz = pyrazol-1-yl) 1.6 complex. <i>Dalton Transactions</i> , 2009, , 9625.	1.6	29
112	Preparaci3n y caracterizaci3n de cementos bel3ticos blancos activados con dopantes alcalinos. <i>Materiales De Construccion</i> , 2009, 59, 19-29.	0.2	2
113	Structure of gallium-doped mayenite and its reduction behaviour. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 666-672.	0.7	26
114	Crystal Packing in Di( $\frac{1}{4}\text{OH}$ )-ortho-palladated Complexes A DFT Insight into the Molecular Structure and Solid-State Interactions. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3687-3697.	1.0	7
115	From non-porous crystalline to amorphous microporous metal(IV) bisphosphonates. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 322-336.	2.2	21
116	Structure and oxide anion conductivity in $\text{Ln}_2(\text{TO}_4)\text{O}$ (Ln=La, Nd; T=Ge, Si). <i>Journal of Solid State Chemistry</i> , 2008, 181, 2501-2506.	1.4	16
117	Crystal structure of low magnesium-content alite: Application to Rietveld quantitative phase analysis. <i>Cement and Concrete Research</i> , 2008, 38, 1261-1269.	4.6	77
118	Synthesis, phase stability and electrical conductivity of $\text{Sr}_2\text{MgMoO}_6$ anode. <i>Materials Research Bulletin</i> , 2008, 43, 2441-2450.	2.7	70
119	Synthesis and Characterization of a New Family of Mixed Oxide Proton Conductors Based on Tristrontium Oxyasilicate. <i>Chemistry of Materials</i> , 2008, 20, 2026-2034.	3.2	11
120	Structure and Electrons in Mayenite Electrides. <i>Inorganic Chemistry</i> , 2008, 47, 2661-2667.	1.9	51
121	Crystal Structures and in-Situ Formation Study of Mayenite Electrides. <i>Inorganic Chemistry</i> , 2007, 46, 4167-4176.	1.9	82
122	Layered microporous tin(IV) bisphosphonates. <i>Dalton Transactions</i> , 2007, , 2394-2404.	1.6	30
123	Low temperature crystal structures of apatite oxygen-conductors containing interstitial oxygen. <i>Dalton Transactions</i> , 2007, , 2058-2064.	1.6	29
124	Oxide and proton conductivity in aluminum-doped tricalcium oxy-silicate. <i>Solid State Ionics</i> , 2007, 178, 1073-1080.	1.3	20
125	Mineralogical phase analysis of alkali and sulfate bearing belite rich laboratory clinkers. <i>Cement and Concrete Research</i> , 2007, 37, 639-646.	4.6	89
126	An XRD study of the effect of the $\text{SiO}_2/\text{Na}_2\text{O}$ ratio on the alkali activation of fly ash. <i>Cement and Concrete Research</i> , 2007, 37, 671-679.	4.6	394



#	ARTICLE	IF	CITATIONS
127	Phase transition and mixed oxide-proton conductivity in germanium oxy-apatites. Journal of Solid State Chemistry, 2007, 180, 1250-1258.	1.4	61
128	In situ synchrotron powder diffraction study of active belite clinkers. Journal of Applied Crystallography, 2007, 40, 999-1007.	1.9	27
129	Quantitative Phase Analysis of Laboratory Active Belite Clinkers by Synchrotron Powder Diffraction. Journal of the American Ceramic Society, 2007, 90, 3205-3212.	1.9	59
130	Spin state of $\text{Co}^{3+}$ and magnetic transitions in $\text{RBaCo}_2\text{O}_{5.50}$ (R=Pr,Gd): Dependence on rare-earth size. Physical Review B, 2006, 74, .	1.1	72
131	A new family of oxide ion conductors based on tricalcium oxy-silicate. Dalton Transactions, 2006, , 2691-2697.	1.6	8
132	Layered and pillared metal carboxyethylphosphonate hybrid compounds. Dalton Transactions, 2006, , 577-585.	1.6	26
133	Microporous aluminum bisphosphonates. Microporous and Mesoporous Materials, 2006, 88, 293-303.	2.2	39
134	Quantitative determination of phases in the alkali activation of fly ash. Part I. Potential ash reactivity. Fuel, 2006, 85, 625-634.	3.4	224
135	Quantitative determination of phases in the alkaline activation of fly ash. Part II: Degree of reaction. Fuel, 2006, 85, 1960-1969.	3.4	181
136	Interstitial oxide positions in oxygen-excess oxy-apatites. Solid State Ionics, 2006, 177, 1307-1315.	1.3	83
137	Stability and oxide ion conductivity in rare-earth aluminium cuspidines. Journal of Solid State Chemistry, 2006, 179, 3445-3455.	1.4	16
138	Effect of cation site-disorder on the structure and magneto-transport properties of $\text{Ln}_{5/8}\text{M}_{3/8}\text{MnO}_3$ manganites. Journal of Solid State Chemistry, 2005, 178, 1949-1958.	1.4	16
139	High-resolution synchrotron powder diffraction analysis of ordinary Portland cements: Phase coexistence of alite. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 87-91.	0.6	14
140	Nominal vs. actual stoichiometries in Al-doped NASICONs: A study of the $\text{Na}_{1.4}\text{Al}_{0.4}\text{M}_{1.6}(\text{PO}_4)_3$ (M=Ge,) Tj ETQq0,0,0 rgBT /Overlock 1	1.3	29
141	Magnetism in the low-doping regime ( $x < 0.50$ ) of $\text{Bi}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskites. Journal of Applied Physics, 2005, 97, 10C105.	1.1	5
142	Interstitial oxygen in oxygen-stoichiometric apatites. Journal of Materials Chemistry, 2005, 15, 2489.	6.7	106
143	Structural and Electrical Investigation of Oxide Ion and Proton Conducting Titanium Cuspidines. Chemistry of Materials, 2005, 17, 5989-5998.	3.2	24
144	High Oxide Ion Conductivity in Al-Doped Germanium Oxyapatite. Chemistry of Materials, 2005, 17, 596-600.	3.2	84

#	ARTICLE	IF	CITATIONS
145	Rietveld Quantitative Analysis of <i>Buen Retiro</i> Porcelains. Journal of the American Ceramic Society, 2004, 87, 449-454.	1.9	20
146	Synthesis and characterization of metal carboxyalkylphosphonates hybrid materials. Solid State Sciences, 2004, 6, 479-487.	1.5	37
147	Study of the oxygen-deficient double perovskite PrBaCo <sub>2</sub> O <sub>5.75</sub> . Physica B: Condensed Matter, 2004, 350, E277-E279.	1.3	11
148	Magnetic and electronic properties of the oxygen-deficient PrBaCo <sub>2</sub> O <sub>5+δ</sub> (δ>0.50). Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1762-1763.	1.0	10
149	Interstitial oxygen conduction in lanthanum oxy-apatite electrolytes. Journal of Materials Chemistry, 2004, 14, 1142-1149.	6.7	237
150	Enhancement of Oxide Ion Conductivity in Cuspidine-Type Materials. Chemistry of Materials, 2004, 16, 4960-4968.	3.2	27
151	Synthesis and Characterization of a New Bisphosphonic Acid and Several Metal Hybrids Derivatives. Inorganic Chemistry, 2004, 43, 5283-5293.	1.9	54
152	Structure and microstructure of gypsum and its relevance to Rietveld quantitative phase analyses. Powder Diffraction, 2004, 19, 240-246.	0.4	50
153	Crystalchemistry and Oxide Ion Conductivity in the Lanthanum Oxygenmanganate Apatite Series. Chemistry of Materials, 2003, 15, 2099-2108.	3.2	110
154	Room Temperature Structural and Microstructural Study for the Magneto-Conducting La <sub>5/8-x</sub> Pr <sub>x</sub> Ca <sub>3/8</sub> MnO <sub>3</sub> (0 ≤ x ≤ 1/2) Series. Chemistry of Materials, 2003, 15, 167-174.	3.2	41
155	High Lithium Ionic Conductivity in the Li <sub>1+x</sub> Al <sub>x</sub> GeyTi <sub>2-x-y</sub> (PO <sub>4</sub> ) <sub>3</sub> NASICON Series.. ChemInform, 2003, 34, no.	0.1	0
156	Charge and orbital order in rare-earth and Bi manganites: a comparison. Journal of Solid State Chemistry, 2003, 171, 84-89.	1.4	37
157	Selective spin-state and metal-insulator transitions in GdBaCo <sub>2</sub> O <sub>5.5</sub> . Journal of Solid State Chemistry, 2003, 171, 349-352.	1.4	40
158	Accuracy in Rietveld quantitative phase analysis of Portland cements. Journal of Applied Crystallography, 2003, 36, 1169-1176.	1.9	109
159	High Lithium Ionic Conductivity in the Li <sub>1+x</sub> Al <sub>x</sub> GeyTi <sub>2-x-y</sub> (PO <sub>4</sub> ) <sub>3</sub> NASICON Series. Chemistry of Materials, 2003, 15, 1879-1885.	3.2	95
160	Charge and Zener polaron order in Bi <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> . Physical Review B, 2003, 68, .	1.1	28
161	Selective spin-state switch and metal-insulator transition in GdBaCo <sub>2</sub> O <sub>5.5</sub> . Physical Review B, 2002, 65, .	1.1	234
162	Quantitative analysis of mineralized white Portland clinkers: The structure of Fluorellestadite. Powder Diffraction, 2002, 17, 281-286.	0.4	33

#	ARTICLE	IF	CITATIONS
163	Complexes Formed between Nitrilotris(methylenephosphonic acid) and M <sup>2+</sup> Transition Metals: Isostructural Organic-Inorganic Hybrids. <i>Inorganic Chemistry</i> , 2002, 41, 2325-2333.	1.9	190
164	Synthesis, characterization and comparative study of the electrochemical properties of doped lithium manganese spinels as cathodes for high voltage lithium batteries. <i>Journal of Materials Chemistry</i> , 2002, 12, 734-741.	6.7	35
165	Synthesis and characterization of high-temperature hexagonal P <sub>2</sub> -Na <sub>0.6</sub> MnO <sub>2</sub> and its electrochemical behaviour as cathode in sodium cells. <i>Journal of Materials Chemistry</i> , 2002, 12, 1142-1147.	6.7	330
166	Spin state transition: the origin of structural, magnetic and metal-insulator transitions in GdBaCo <sub>2</sub> O <sub>5+δ</sub> (δ ≈ 0.5). <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 751-753.	1.0	13
167	Electronic and magnetic transitions in Bi-Sr-Mn-O oxides: high temperature charge-ordering. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 645-647.	1.0	10
168	Synthesis, Structures, and Thermal Expansion of the La <sub>2</sub> W <sub>2</sub> xMoxO <sub>9</sub> Series. <i>Journal of Solid State Chemistry</i> , 2002, 167, 80-85.	1.4	85
169	Charge modulation and orientational variants in Bi <sub>1/3</sub> Ca <sub>2/3</sub> MnO <sub>3</sub> . <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1761-s1764.	1.1	2
170	Anomalously high charge/orbital ordering temperature in Bi <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> . <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1787-s1789.	1.1	5
171	The superstructure of C <sub>3</sub> S from synchrotron and neutron powder diffraction and its role in quantitative phase analyses. <i>Cement and Concrete Research</i> , 2002, 32, 1347-1356.	4.6	172
172	Full Phase Analysis of Portland Clinker by Penetrating Synchrotron Powder Diffraction. <i>Analytical Chemistry</i> , 2001, 73, 151-156.	3.2	74
173	Phase segregation and orbital ordering in Bi <sub>1-x</sub> CaxMnO <sub>3</sub> (x ≈ 0.75): a neutron and synchrotron X-ray diffraction study. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 408-411.	2.8	1
174	Structural, spin state, and magnetic transitions in GdBaCo <sub>2</sub> O <sub>5+δ</sub> (δ ≈ 0.5). <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 468-471.	2.8	12
175	Synthesis and structure of NH <sub>4</sub> CoPO <sub>4</sub> ·6H <sub>2</sub> O. <i>Annales De Chimie: Science Des Materiaux</i> , 2001, 26, 49-54.	0.2	8
176	Deprotonation of Phosphonic Acids with M <sup>2+</sup> Cations for the Design of Neutral Isostructural Organic-Inorganic Hybrids. <i>Journal of the American Chemical Society</i> , 2001, 123, 2885-2886.	6.6	94
177	Syntheses, Structures, and Thermal Expansion of Germanium Pyrophosphates. <i>Journal of Solid State Chemistry</i> , 2001, 156, 213-219.	1.4	25
178	Two New Organo-Inorganic Hybrid Compounds: Nitrilophosphonates of Aluminum and Copper. <i>Journal of Solid State Chemistry</i> , 2001, 160, 278-286.	1.4	40
179	Synthesis and Structure of Na <sub>2</sub> [(HO <sub>3</sub> PCH <sub>2</sub> ) <sub>3</sub> NH]·1.5H <sub>2</sub> O: The First Alkaline Triphosphonate. <i>Journal of Solid State Chemistry</i> , 2000, 151, 122-129.	1.4	60
180	Charge disproportionation in RNiO <sub>3</sub> perovskites. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 218-221.	1.3	12

#	ARTICLE	IF	CITATIONS
181	Sodium Mobility in the NASICON Series $\text{Na}_{1+x}\text{Zr}_2\text{-xIn}_x(\text{PO}_4)_3$ . Chemistry of Materials, 2000, 12, 2134-2142.	3.2	53
182	New lead triphosphonates: synthesis, properties and crystal structures. Journal of Materials Chemistry, 1999, 9, 571-578.	6.7	78
183	Metal-Insulator Transitions, Structural and Microstructural Evolution of $\text{RNiO}_3$ (R = Sm, Eu, Gd, Dy, Tj, Er, Yb, Lu, Ho, NiO <sub>3</sub> and YNiO <sub>3</sub> ). Journal of the American Chemical Society, 1999, 121, 4754-4762.	6.6	171
184	Synthesis, ab initio structure determination, and characterization of manganese(III) phenyl phosphonates. Materials Research Bulletin, 1998, 33, 1265-1274.	2.7	18
185	A Peroxonioberium Phosphate Derived from $\text{NbOPO}_4 \cdot 3\text{H}_2\text{O}$ . Journal of Solid State Chemistry, 1998, 137, 289-294.	1.4	24
186	Zirconium Titanate from Sol-Gel Synthesis: Thermal Decomposition and Quantitative Phase Analysis. Journal of Solid State Chemistry, 1998, 139, 225-232.	1.4	53
187	Layered acid arsenates $\text{M}(\text{HAsO}_4)_2 \cdot \text{H}_2\text{O}$ (M=Ti, Sn, Pb): synthesis optimization and crystal structures. Journal of Molecular Structure, 1998, 470, 93-104.	1.8	28
188	NASICON to scandium wolframate transition in $\text{Li}_{1+x}\text{M}_x\text{Hf}_2\text{(PO}_4)_3$ (M=Cr, Fe): structure and ionic conductivity. Solid State Ionics, 1998, 112, 53-62.	1.3	41
189	Physical-chemical characterization of tarfaya's oil shale r sub-zones. Annales De Chimie: Science Des Materiaux, 1998, 23, 389-392.	0.2	4
190	Structural complexity and metal coordination flexibility in two acetophosphonates. Journal of Materials Chemistry, 1998, 8, 2479-2485.	6.7	48
191	Simultaneous Antiferromagnetic Order and Spin-Glass-like Behavior in $\text{MnAsO}_4$ . Inorganic Chemistry, 1998, 37, 1329-1335.	1.9	13
192	Polymorphism and Phase Transition in Nanotubular Uranyl Phenylphosphonate: $(\text{UO}_2)_3(\text{HO}_3\text{PC}_6\text{H}_5)_2(\text{O}_3\text{PC}_6\text{H}_5)_2 \cdot \text{H}_2\text{O}$ . Inorganic Chemistry, 1998, 37, 1827-1832.	1.9	63
193	Aluminum Phenylphosphonates: A Fertile Family of Compounds. Inorganic Chemistry, 1998, 37, 4168-4178.	1.9	78
194	Understanding Na Mobility in NASICON Materials: A Rietveld, $^{23}\text{Na}$ and $^{31}\text{P}$ MAS NMR, and Impedance Study. Chemistry of Materials, 1998, 10, 665-673.	3.2	107
195	Reversible Triclinic-Rhombohedral Phase Transition in $\text{LiHf}_2(\text{PO}_4)_3$ : Crystal Structures from Neutron Powder Diffraction. Chemistry of Materials, 1997, 9, 1678-1685.	3.2	60
196	Changes in Magnetic Couplings after Chimie Douce Reactions: Magnetic Structures of $\text{LiMnXO}_4(\text{OD})$ (X=P, As). Journal of Solid State Chemistry, 1997, 132, 202-212.	1.4	18
197	Structure Determination of a Complex Tubular Uranyl Phenylphosphonate, $(\text{UO}_2)_3(\text{HO}_3\text{PC}_6\text{H}_5)_2(\text{O}_3\text{PC}_6\text{H}_5)_2 \cdot \text{H}_2\text{O}$ , from Conventional X-ray Powder Diffraction Data. Inorganic Chemistry, 1996, 35, 1468-1473.	1.9	119
198	Synthesis and crystal structures of two metal phosphonates, $\text{M}(\text{HO}_3\text{PC}_6\text{H}_5)_2$ (M = Ba, Pb). Journal of Materials Chemistry, 1996, 6, 639.	6.7	80

#	ARTICLE	IF	CITATIONS
199	Synthesis, Structure, and Characterization of Uranium(IV) Phenyl Phosphonate, $U(O_3PC_6H_5)_2$ , and Uranium(IV) Pyro Phosphate, $UP_2O_7$ . <i>Journal of Solid State Chemistry</i> , 1996, 121, 181-189.	1.4	46
200	Structural Features of the Reactives Sites in $\hat{1}\pm\text{-M}(\text{DPO}_4)_2\hat{2}\cdot\text{D}_2\text{O}$ (M= Ti, Zr, Pb): Hydrogen-Bond Network and Framework. <i>Journal of Solid State Chemistry</i> , 1996, 125, 261-269.	1.4	15
201	Crystal Structure and Spectroscopic Characterization of $\text{MAs}_2\text{O}_6$ (M = Pb, Ca). Two Simple Salts with $\text{AsO}_6$ Groups. <i>The Journal of Physical Chemistry</i> , 1995, 99, 12975-12979.	2.9	13
202	Synthesis Optimization and Crystal Structures of Layered Metal(IV) Hydrogen Phosphates, $\alpha\text{-M}(\text{HPO}_4)_2\cdot\text{H}_2\text{O}$ (M = Ti, Sn, Pb). <i>Inorganic Chemistry</i> , 1995, 34, 893-899.	1.9	92
203	Cation distribution in the superconducting Tl, Pb-1223 phase ( $\text{Tl}_0.5\text{Pb}_0.5\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_9$ ) from resonant synchrotron powder X-ray diffraction. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 221, 304-310.	0.6	24
204	Cation distribution and composition of the Tl-2223 superconductor from combined powder neutron and resonant X-ray diffraction. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 225, 307-316.	0.6	24
205	Phase separation and cation distributions in Tl-2201 from resonant synchrotron X-ray diffraction. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 965-966.	0.6	5
206	Powder diffraction studies of a 118 K Tl,Pb-1223 superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 967-968.	0.6	9
207	Syntheses, Crystal Structures, and Characterization of Bismuth Phosphates. <i>Inorganic Chemistry</i> , 1994, 33, 1869-1874.	1.9	119
208	Chemical switching of magnetic properties through topotactic lithium exchange in manganese(III) arsenate hydrate. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 155.	2.0	6
209	Topotactic Lithium Exchange in the Precursor Catalyst $\text{VOHPO}_4 \cdot 0.5\text{H}_2\text{O}$ : The Crystal Structure of $\text{LiVOPO}_4 \cdot 0.5\text{H}_2\text{O}$ . <i>Journal of Solid State Chemistry</i> , 1993, 103, 481-489.	1.4	6
210	$\text{Ba}_{44}\text{Cu}_{48}(\text{CO}_3)_6\text{O}_{87.9}$ : The Structure of $?\text{BaCuO}_2?$ from Simultaneous X-ray and Neutron Powder Diffraction. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1454-1456.	4.4	43
211	Study of manganese phosphate or arsenate hydrates, $\text{MnXO}_4 \cdot n\text{H}_2\text{O}$ (X = P, As), phases and synthesis and structure of the simple, novel salt $\text{MnAsO}_4$ . <i>Inorganic Chemistry</i> , 1993, 32, 1925-1930.	1.9	16
212	Magnetic structures of $\text{MnPO}_4 \cdot \text{D}_2\text{O}$ and $\text{MnAsO}_4 \cdot \text{D}_2\text{O}$ from time-of-flight neutron powder diffraction data. <i>Journal of Materials Chemistry</i> , 1992, 2, 501-505.	6.7	15
213	Order and disorder of vanadyl chains: crystal structures of vanadyl dihydrogen arsenate ( $\text{VO}(\text{H}_2\text{AsO}_4)_2$ ) and the lithium derivative $\text{Li}_4\text{VO}(\text{AsO}_4)_2$ . <i>Inorganic Chemistry</i> , 1992, 31, 1045-1049.	1.9	30
214	A Remarkable Change in Framework Cation Positions upon Lithium Exchange: the Crystal Structure of $\text{LiMnPO}_4(\text{OH})$ . <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1090-1092.	4.4	25
215	Topotactic lithium exchange in manganese(III)arsenate hydrate: a switchable Jahn-Teller distorted framework. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 604-606.	2.0	10
216	Characterization of manganese(III) dihydrogen triphosphate dihydrate, $\text{H}_2\text{MnP}_3\text{O}_{10} \cdot 2\text{H}_2\text{O}$ . <i>Inorganic Chemistry</i> , 1991, 30, 2394-2397.	1.9	7

#	ARTICLE	IF	CITATIONS
217	Crystal structures and characterization of a new manganese(III) arsenate, $MnAsO_4 \cdot 1.2H_2O$ and manganese(II) pyroarsenate, $Mn_2As_2O_7$ . <i>Inorganic Chemistry</i> , 1991, 30, 2043-2047.	1.9	31
218	Epitactic ion-exchange reactions into vanadyl(IV) arsenate. <i>Journal of Solid State Chemistry</i> , 1991, 91, 25-31.	1.4	3
219	Characterization of manganese(III) orthophosphate hydrate. <i>Inorganic Chemistry</i> , 1990, 29, 1334-1337.	1.9	22