

Miguel A G Aranda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11573346/publications.pdf>

Version: 2024-02-01

71
papers

3,763
citations

101543

36
h-index

123424

61
g-index

73
all docs

73
docs citations

73
times ranked

3343
citing authors

#	ARTICLE	IF	CITATIONS
1	Portland and Belite Cement Hydration Acceleration by C-S-H Seeds with Variable w/c Ratios. <i>Materials</i> , 2022, 15, 3553.	2.9	12
2	X-ray Total Scattering Study of Phases Formed from Cement Phases Carbonation. <i>Minerals (Basel)</i> , 2021, 11, 1070.	2.0	4
3	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.	2.9	6
4	Accuracy in Cement Hydration Investigations: Combined X-ray Microtomography and Powder Diffraction Analyses. <i>Materials</i> , 2021, 14, 6953.	2.9	4
5	Hydration Activation of Alite-Belite-Ye'elinite Cements by Doping with Boron. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3583-3590.	6.7	6
6	Synchrotron pair distribution function analyses of ye'elinite-based pastes. <i>Advances in Cement Research</i> , 2019, 31, 138-146.	1.6	7
7	Rietveld Quantitative Phase Analysis of Oil Well Cement: In Situ Hydration Study at 150 Bars and 150 °C. <i>Materials</i> , 2019, 12, 1897.	2.9	3
8	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.	3.1	17
9	Quantitative disentanglement of nanocrystalline phases in cement pastes by synchrotron ptychographic X-ray tomography. <i>IUCr</i> , 2019, 6, 473-491.	2.2	22
10	X-ray diffraction, cements and environment, three worlds in one.. <i>MATEC Web of Conferences</i> , 2018, 149, 01003.	0.2	1
11	X-ray diffraction, cements and environment, three worlds in one.. <i>MATEC Web of Conferences</i> , 2018, 149, 01003.	0.2	0
12	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.	3.1	37
13	Structural variability in M^{2+} -2-hydroxyphosphonoacetate moderate proton conductors. <i>Pure and Applied Chemistry</i> , 2017, 89, 75-87.	1.9	10
14	Structure of stratlingite and effect of hydration methodology on microstructure. <i>Advances in Cement Research</i> , 2016, 28, 13-22.	1.6	35
15	Hydration of belite—ye'elinite—ferrite cements with different calcium sulfate sources. <i>Advances in Cement Research</i> , 2016, 28, 529-543.	1.6	47
16	Amorphous determination in calcium sulfoaluminate materials by external and internal methods. <i>Advances in Cement Research</i> , 2015, 27, 417-423.	1.6	15
17	Rietveld quantitative phase analysis with molybdenum radiation. <i>Powder Diffraction</i> , 2015, 30, 25-35.	0.2	6
18	Guest Molecule-Responsive Functional Calcium Phosphonate Frameworks for Tuned Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 5731-5739.	13.7	206

#	ARTICLE	IF	CITATIONS
19	Pseudocubic Crystal Structure and Phase Transition in Doped Ye TM elimit. <i>Crystal Growth and Design</i> , 2014, 14, 5158-5163.	3.0	71
20	Structural Variability in Multifunctional Metal Xylenediaminetetraphosphonate Hybrids. <i>Inorganic Chemistry</i> , 2013, 52, 8770-8783.	4.0	46
21	Structure, Atomistic Simulations, and Phase Transition of Stoichiometric Yeelimit. <i>Chemistry of Materials</i> , 2013, 25, 1680-1687.	6.7	123
22	Hydration Reactions and Mechanical Strength Developments of Iron-Rich Sulfoelimit Eco-cements. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16606-16614.	3.7	60
23	Multifunctional lanthanum tetraphosphonates: Flexible, ultramicroporous and proton-conducting hybrid frameworks. <i>Dalton Transactions</i> , 2012, 41, 4045.	3.3	85
24	Photodegradation of Phenol over a Hybrid Organo-Inorganic Material: Iron(II) Hydroxyphosphonoacetate. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14526-14533.	3.1	13
25	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. <i>CrystEngComm</i> , 2012, 14, 5385.	2.6	32
26	High Proton Conductivity in a Flexible, Cross-Linked, Ultramicroporous Magnesium Tetraphosphonate Hybrid Framework. <i>Inorganic Chemistry</i> , 2012, 51, 7689-7698.	4.0	118
27	Multifunctional Luminescent and Proton-Conducting Lanthanide Carboxyphosphonate Open-Framework Hybrids Exhibiting Crystalline-to-Amorphous-to-Crystalline Transformations. <i>Chemistry of Materials</i> , 2012, 24, 3780-3792.	6.7	162
28	2D Corrugated Magnesium Carboxyphosphonate Materials: Topotactic Transformations and Interlayer "Decorations" with Ammonia. <i>Inorganic Chemistry</i> , 2012, 51, 7889-7896.	4.0	18
29	5. Rietveld Quantitative Phase Analysis of OPC Clinkers, Cements and Hydration Products. , 2012, , 169-210.		0
30	Colloidal Processing of Macroporous TiO_2 Materials for Photocatalytic Water Treatment. <i>Journal of the American Ceramic Society</i> , 2012, 95, 502-508.	3.8	29
31	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. <i>Crystal Growth and Design</i> , 2011, 11, 1713-1722.	3.0	32
32	Ceramic Pigments and the European REACH Legislation: Black $\text{Fe}_2\text{O}_3\text{-Cr}_2\text{O}_3$, a Case Study. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 905-910.	2.1	4
33	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. <i>Inorganic Chemistry</i> , 2011, 50, 11202-11211.	4.0	25
34	<i>In situ</i> powder diffraction study of belite sulfoaluminate linkering. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 506-514.	2.4	35
35	Stepwise Topotactic Transformations (1D to 3D) in Copper Carboxyphosphonate Materials: Structural Correlations. <i>Crystal Growth and Design</i> , 2010, 10, 357-364.	3.0	43
36	Structural Mapping and Framework Interconversions in 1D, 2D, and 3D Divalent Metal R_2S -Hydroxyphosphonoacetate Hybrids. <i>Inorganic Chemistry</i> , 2010, 49, 761-768.	4.0	33

#	ARTICLE	IF	CITATIONS
37	Active Iron-Rich Belite Sulfoaluminate Cements: Clinkering and Hydration. Environmental Science & Technology, 2010, 44, 6855-6862.	10.0	90
38	“Breathing” in Adsorbate-Responsive Metal Tetraphosphonate Hybrid Materials. Chemistry - A European Journal, 2009, 15, 6612-6618.	3.3	40
39	Evolution with Temperature of Crystalline and Amorphous Phases in Porcelain Stoneware. Journal of the American Ceramic Society, 2009, 92, 229-234.	3.8	92
40	Preparación y caracterización de cementos belíticos blancos activados con dopantes alcalinos. Materiales De Construccion, 2009, 59, 19-29.	0.7	2
41	Structure of gallium-doped mayenite and its reduction behaviour. Physica Status Solidi (B): Basic Research, 2008, 245, 666-672.	1.5	26
42	Synthesis and Characterization of a New Family of Mixed Oxide ²⁺ Proton Conductors Based on Tristrontium Oxysilicate. Chemistry of Materials, 2008, 20, 2026-2034.	6.7	11
43	Structure and Electrons in Mayenite Electrides. Inorganic Chemistry, 2008, 47, 2661-2667.	4.0	51
44	Crystal Structures and in-Situ Formation Study of Mayenite Electrides. Inorganic Chemistry, 2007, 46, 4167-4176.	4.0	82
45	Layered microporous tin(IV) bisphosphonates. Dalton Transactions, 2007, , 2394-2404.	3.3	30
46	Quantitative Phase Analysis of Laboratory-Active Belite Clinkers by Synchrotron Powder Diffraction. Journal of the American Ceramic Society, 2007, 90, 3205-3212.	3.8	59
47	A new family of oxide ion conductors based on tricalcium oxy-silicate. Dalton Transactions, 2006, , 2691-2697.	3.3	8
48	Layered and pillared metal carboxyethylphosphonate hybrid compounds. Dalton Transactions, 2006, , 577-585.	3.3	26
49	Interstitial oxygen in oxygen-stoichiometric apatites. Journal of Materials Chemistry, 2005, 15, 2489.	6.7	106
50	High Oxide Ion Conductivity in Al-Doped Germanium Oxyapatite. Chemistry of Materials, 2005, 17, 596-600.	6.7	84
51	Rietveld Quantitative Analysis of <i>Buen Retiro</i> Porcelains. Journal of the American Ceramic Society, 2004, 87, 449-454.	3.8	20
52	Interstitial oxygen conduction in lanthanum oxy-apatite electrolytes. Journal of Materials Chemistry, 2004, 14, 1142-1149.	6.7	237
53	Synthesis and Characterization of a New Bisphosphonic Acid and Several Metal Hybrids Derivatives. Inorganic Chemistry, 2004, 43, 5283-5293.	4.0	54
54	Structure and microstructure of gypsum and its relevance to Rietveld quantitative phase analyses. Powder Diffraction, 2004, 19, 240-246.	0.2	50

#	ARTICLE	IF	CITATIONS
55	High Lithium Ionic Conductivity in the $\text{Li}_{1+x}\text{Al}_x\text{Ge}_y\text{Ti}_{2-x-y}(\text{PO}_4)_3$ NASICON Series.. ChemInform, 2003, 34, no.	0.0	0
56	High Lithium Ionic Conductivity in the $\text{Li}_{1+x}\text{Al}_x\text{Ge}_y\text{Ti}_{2-x-y}(\text{PO}_4)_3$ NASICON Series. Chemistry of Materials, 2003, 15, 1879-1885.	6.7	95
57	Quantitative analysis of mineralized white Portland clinkers: The structure of Fluorellestadite. Powder Diffraction, 2002, 17, 281-286.	0.2	33
58	Complexes Formed between Nitrilotris(methylenephosphonic acid) and M^{2+} Transition Metals: Isostructural Organic-Inorganic Hybrids. Inorganic Chemistry, 2002, 41, 2325-2333.	4.0	190
59	Full Phase Analysis of Portland Clinker by Penetrating Synchrotron Powder Diffraction. Analytical Chemistry, 2001, 73, 151-156.	6.5	74
60	Deprotonation of Phosphonic Acids with M^{2+} Cations for the Design of Neutral Isostructural Organic-Inorganic Hybrids. Journal of the American Chemical Society, 2001, 123, 2885-2886.	13.7	94
61	Sodium Mobility in the NASICON Series $\text{Na}_{1+x}\text{Zr}_2\text{In}_x(\text{PO}_4)_3$. Chemistry of Materials, 2000, 12, 2134-2142.	6.7	53
62	New lead triphosphonates: synthesis, properties and crystal structures. Journal of Materials Chemistry, 1999, 9, 571-578.	6.7	78
63	Metal-Insulator Transitions, Structural and Microstructural Evolution of RNiO_3 (R = Sm, Eu, Gd, Dy), $\text{TjETQq110.784314rgBT/Overt}$ HoNiO_3 and YNiO_3 . Journal of the American Chemical Society, 1999, 121, 4754-4762.	13.7	171
64	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.	3.6	28
65	Structural complexity and metal coordination flexibility in two acetophosphonates. Journal of Materials Chemistry, 1998, 8, 2479-2485.	6.7	48
66	Aluminum Phenylphosphonates: A Fertile Family of Compounds. Inorganic Chemistry, 1998, 37, 4168-4178.	4.0	78
67	Understanding Na Mobility in NASICON Materials: A Rietveld, ^{23}Na and ^{31}P MAS NMR, and Impedance Study. Chemistry of Materials, 1998, 10, 665-673.	6.7	107
68	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.	6.7	60
69	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
70	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). Inorganic Chemistry, 1995, 34, 893-899.	4.0	92
71	$\text{Ba}_{44}\text{Cu}_{48}(\text{CO}_3)_6\text{O}_{87.9}$: The Structure of BaCuO_2 ? from Simultaneous X-ray and Neutron Powder Diffraction. Angewandte Chemie International Edition in English, 1993, 32, 1454-1456.	4.4	43