GrÃ©gory Tricot

List of Publications by Year
in descending order

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64	1,442	361413	377865
papers	citations	20 h-index	34 g-index

67	67	67	1601
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boron isotopes as pH proxy: A new look at boron speciation in deep-sea corals using 11B MAS NMR and EELS. Geochimica Et Cosmochimica Acta, 2011, 75, 1003-1012.	3.9	94
2	Heteronuclear NMR Spectroscopy as a Surfaceâ€Selective Technique: A Unique Look at the Hydroxyl Groups of Î³â€Alumina.. Chemistry - A European Journal, 2014, 20, 4038-4046.	3.3	82
3	Polymerization of racemic Î²-butyrolactone using supported catalysts: a simple access to isotactic polymers. Chemical Communications, 2010, 46, 1032.	4.1	80
4	Development of stable and efficient CeVO4 systems for the selective reduction of NOx by ammonia: Structure-activity relationship. Applied Catalysis B: Environmental, 2017, 218, 338-348.	20.2	76
5	The structure of aluminophosphate glasses revisited: Application of modern solid state NMR strategies to determine structural motifs on intermediate length scales. Journal of Non-Crystalline Solids, 2008, 354, 1703-1714.	3.1	69
6	An advanced NMR protocol for the structural characterization of aluminophosphate glasses. Solid State Nuclear Magnetic Resonance, 2007, 32, 44-52.	2.3	65
7	The D-HMQC MAS-NMR Technique. Annual Reports on NMR Spectroscopy, 2014, , 145-184.	1.5	52
8	Glass-forming ability and structure of ZnOâ€“MoO3â€“P2O5 glasses. Journal of Non-Crystalline Solids, 2010, 356, 2509-2516.	3.1	49
9	Redox and structure of sodium-vanadophosphate glasses. Journal of Non-Crystalline Solids, 2004, 345-346, 56-60.	3.1	45
10	SPAM-MQ-HETCOR: an improved method for heteronuclear correlation spectroscopy between quadrupolar and spin-1/2 nuclei in solid-state NMR. Physical Chemistry Chemical Physics, 2006, 8, 144-150.	2.8	41
11	Structural Changes above the Glass Transition and Crystallization in Aluminophosphate Glasses:â€‰ An in Situ High-Temperature MAS NMR Study. Journal of Physical Chemistry B, 2007, 111, 7529-7534.	2.6	32
12	Study of the thermal degradation of an aluminium phosphinateâ€“aluminium trihydrate combination. Thermochimica Acta, 2013, 551, 175-183.	2.7	32
13	Induced effect of tungsten incorporation on the catalytic properties of CeVO4 systems for the selective reduction of NOx by ammonia. Applied Catalysis B: Environmental, 2018, 234, 318-328.	20.2	31
14	Effect of B2O3/P2O5 substitution on the properties and structure of tin boro-phosphate glasses. Materials Chemistry and Physics, 2015, 149-150, 648-656.	4.0	30
15	Novel Tailormade Bi₄MO₄(PO₄)₂ Structural Type (M) Tj ETQq1 1 0.784314 rgBT	4.0	27
16	Nd³⁺:Ga-Ge-Sb-S glasses and fibers for luminescence in mid-IR: synthesis, structural characterization and rare earth spectroscopy. Optical Materials Express, 2018, 8, 1650.	3.0	26
17	New insights into the thermal evolution of aluminophosphate solutions: A complementary XRD and solid state NMR study. Journal of the European Ceramic Society, 2008, 28, 1135-1141.	5.7	24
18	Solid-state NMR covariance of homonuclear correlation spectra. Journal of Chemical Physics, 2008, 128, 134502.	3.0	24

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19	17O Solid-State NMR and First-Principles Calculations of Sodium Trimetaphosphate (Na3P3O9), Tripolyphosphate (Na5P3O10), and Pyrophosphate (Na4P2O7). Inorganic Chemistry, 2008, 47, 7327-7337.	4.0	23
20	The structure of phosphate and borosilicate glasses and their structural evolution at high temperatures as studied with solid state NMR spectroscopy: Phase separation, crystallisation and dynamic species exchange. Solid State Sciences, 2010, 12, 428-439.	3.2	23
21	Solid State NMR: A Powerful Tool for the Characterization of Borophosphate Glasses. Molecules, 2020, 25, 428.	3.8	21
22	Phase identification and quantification in a devitrified glass using homo- and heteronuclear solid-state NMR. Chemical Communications, 2005, , 5289.	4.1	20
23	Anion-Vacancy-Induced Magnetoâ^'Crystalline Anisotropy in Fluorine-Doped Hexagonal Cobaltites. Journal of the American Chemical Society, 2010, 132, 4865-4875.	13.7	20
24	Thermal stability of a low Tg phosphate glass investigated by DSC, XRD and solid state NMR. Journal of Non-Crystalline Solids, 2011, 357, 2708-2712.	3.1	20
25	Local relaxation in lanthanum silicate oxyapatites by Raman scattering and MASâ€NMR. Journal of Raman Spectroscopy, 2011, 42, 1455-1461.	2.5	20
26	The structure and properties of xZnOâ€"(67-x)SnOâ€"P2O5 glasses: (I) optical and thermal properties, Raman and infrared spectroscopies. Journal of Non-Crystalline Solids, 2018, 484, 132-138.	3.1	20
27	Zero photoelastic and water durable ZnOâ€"SnOâ€"P2O5â€"B2O3 glasses. APL Materials, 2015, 3, .	5.1	18
28	Insights from Local Network Structures and Localized Diffusion on the Ease of Lithium Ion Transport in Two Mixed Glass-Former Systems. Journal of Physical Chemistry C, 2017, 121, 17641-17657.	3.1	18
29	Ionic Conductivity of Lithium Germanium Phosphate Glass-Ceramics. Journal of Physical Chemistry C, 2019, 123, 23312-23322.	3.1	18
30	Flash Catalytic Pyrolysis of Polyethylene over (Alumino)silicate Materials. ChemCatChem, 2020, 12, 1109-1116.	3.7	17
31	Structural Features of Li<scp>PON</scp> Glasses Determined by 1D and 2D ³¹P <scp>MAS NMR</scp>. International Journal of Applied Glass Science, 2016, 7, 69-79.	2.0	16
32	Network Dynamics and Species Exchange Processes in Aluminophosphate Glasses: An in situ High Temperature Magic Angle Spinning NMR View. Journal of Physical Chemistry B, 2009, 113, 416-425.	2.6	15
33	The effect of P2O5 on the structure, sintering and sealing properties of barium calcium aluminum boro-silicate (BCABS) glasses. Materials Chemistry and Physics, 2011, 130, 880-889.	4.0	15
34	Nitrogen and fluorine anionic substitution in lithium phosphate glasses. Solid State Ionics, 2014, 254, 40-47.	2.7	15
35	Hydroxylation and dealumination of a metakaolinite-rich brick under acid conditions, and their influences on metal adsorption: One- and two-dimensional (1 H, 27 Al, 23 Na, 29 Si) MAS NMR, and FTIR studies. Microporous and Mesoporous Materials, 2016, 226, 360-368.	4.4	15
36	Mixed alkali silicophosphate oxynitride glasses: Structure-property relations. Journal of Non-Crystalline Solids, 2017, 462, 51-64.	3.1	15

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37	Kinetic fragility and structure of lithium borophosphate glasses analysed by 1D/2D NMR. Physical Chemistry Chemical Physics, 2017, 19, 22777-22784.	2.8	14
38	Recent Developments in NMR Studies of Aluminophosphates. Annual Reports on NMR Spectroscopy, 2018, 94, 113-185.	1.5	14
39	The structure and properties of xZnOâ€“(67-x)SnOâ€“33P2O5 glasses: (III) Photoelastic behavior. Journal of Non-Crystalline Solids, 2018, 498, 173-176.	3.1	14
40	Description of the Intermediate Length Scale Structural Motifs in Sodium Vanado-phosphate Glasses by Magnetic Resonance Spectroscopies. Journal of Physical Chemistry C, 2013, 117, 1421-1427.	3.1	13
41	Inhibition of the catalytic oxidation of carbon/carbon composite materials by an aluminophosphate coating. Carbon, 2012, 50, 3440-3445.	10.3	12
42	Structure and electrical properties of a new thio-phosphorus oxynitride glass electrolyte. Journal of Non-Crystalline Solids, 2014, 405, 159-162.	3.1	12
43	The structure and properties of xZnOâ€“(67-x)SnOâ€“33P2O5 glasses: (II) Diffraction, NMR, and chromatographic studies. Journal of Non-Crystalline Solids, 2018, 492, 68-76.	3.1	12
44	A Comparative Overview of Glass-Ceramic Characterization by MAS-NMR and XRD. Critical Reviews in Solid State and Materials Sciences, 2011, 36, 229-241.	12.3	11
45	Structural characterization of an electrically insulating diffusion barrier on a plasma-sprayed ceramic for severe environment applications. Surface and Coatings Technology, 2013, 220, 204-208.	4.8	11
46	Mixed Network Phosphate Glasses: Seeing Beyond the 1D 31P MAS-NMR Spectra With 2D X/31P NMR Correlation Maps. Annual Reports on NMR Spectroscopy, 2019, , 35-75.	1.5	11
47	A significant enhancement of sodium ion conductivity in phosphate glasses by addition of WO₃ and MoO₃: the effect of mixed conventionalâ€“conditional glass-forming oxides. Physical Chemistry Chemical Physics, 2021, 23, 9761-9772.	2.8	11
48	A Wellâ€Defined Silicaâ€Supported Lanthanum Bis(phosphinimino)methanide. European Journal of Inorganic Chemistry, 2011, 2011, 1366-1369.	2.0	10
49	Fine Hierarchy of the Vâ€“O Bonds by Advanced Solid State NMR: Novel Pb₄(VO₂)(PO₄)₃ Structure as a Textbook Case. Inorganic Chemistry, 2012, 51, 13108-13113.	4.0	9
50	Structureâ€“properties relationships in fibre drawing of bioactive phosphate glasses. Journal of Materials Science, 2017, 52, 9166-9178.	3.7	9
51	Are calcium silicate hydrates (C-S-H) present in alkali-activated glass cullet cement?. Materials Letters, 2018, 219, 104-108.	2.6	9
52	Advanced solid state 1D/2D NMR investigation of the B2O3-Zn(PO3)2 glasses. Journal of Non-Crystalline Solids, 2020, 548, 120325.	3.1	8
53	71Ga NMR in chalcogenide and chalco-halide glasses. Journal of Non-Crystalline Solids, 2014, 383, 216-221.	3.1	7
54	Preferential bonding in low alkali borosilicate glasses. Journal of Commonwealth Law and Legal Education, 2017, 58, 171-179.	0.5	7

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55	Dehydroxylation processing and lasing properties of a Nd alumino-phosphate glass. Journal of Alloys and Compounds, 2022, 896, 163040.	5.5	7
56	On shrinkage and structure changes of pure and blended Portland concretes. Journal of the American Ceramic Society, 2017, 100, 4131-4152.	3.8	5
57	Sodium Ion Conductivity in Mixed Former Na₂Oâ€“P₂O₅â€“GeO₂ and Na₂Oâ€“B₂O₃â€“P₂O₅â€“GeO₂ Glasses. Journal of Physical Chemistry C, 2021, 125, 10593-10604.	3.1	5
58	3D correlation NMR spectrum between three distinct heteronuclei for the characterization of inorganic samples: Application on sodium alumino-phosphate materials. Solid State Nuclear Magnetic Resonance, 2017, 84, 164-170.	2.3	4
59	The Relationship among Electronic Polarizability, Photoelasticity, and Refractivity in Ternary Phosphate Glasses. Physica Status Solidi (B): Basic Research, 2020, 257, 2000146.	1.5	4
60	Properties and Structure in Ternary Metaâ€, Pyroâ€, and Orthoâ€Zinc Tin Phosphate Glasses With Small Photoelasticity. Physica Status Solidi (B): Basic Research, 2018, 255, 1800318.	1.5	3
61	Insertion of Al2O3 in Zinc Metaphosphate Glasses: New Insights from 1D/2D Solid State NMR. Journal of Physical Chemistry C, 2021, 125, 9210-9218.	3.1	3
62	Effect of the P/Al Molar Ratio and Heating Rate on the Composi-Tion of Alumino-Phosphate Binders. Materials, 2022, 15, 2337.	2.9	3
63	Durable BaOâ€“ZnOâ€“P₂O₅ glass with small stressâ€induced birefringence for leadâ€free polarization lightâ€controlling devices. International Journal of Applied Glass Science, 2020, 11, 27-34.	2.0	2
64	Impact of Thermal Aging on the SCR Performance of Tungsten Doped CeVO4 Mixed Oxides. Topics in Catalysis, 2019, 62, 49-55.	2.8	1