# 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 | Dehydroxylation processing and lasing properties of a Nd alumino-phosphate glass. Journal of Alloys and Compounds, 2022, 896, 163040. | 5.5 | 7 |
| 2 | 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 |
| 3 | 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 |
| 4 | Sodium Ion Conductivity in Mixed Former Na<sub>2</sub>Oâ€“P<sub>2</sub>O<sub>5</sub>â€“GeO<sub>2</sub> and Na<sub>2</sub>Oâ€“B<sub>2</sub>O<sub>3</sub>â€“P<sub>2</sub>O<sub>5</sub>â€“GeO<sub>2</sub> Glasses. Journal of Physical Chemistry C, 2021, 125, 10593-10604. | 3.1 | 5 |
| 5 | A significant enhancement of sodium ion conductivity in phosphate glasses by addition of WO<sub>3</sub> and MoO<sub>3</sub>: the effect of mixed conventionalâ€“conditional glass-forming oxides. Physical Chemistry Chemical Physics, 2021, 23, 9761-9772. | 2.8 | 11 |
| 6 | Durable BaOâ€“ZnOâ€“P<sub>2</sub>O<sub>5</sub> 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 |
| 7 | Flash Catalytic Pyrolysis of Polyethylene over (Alumino)silicate Materials. ChemCatChem, 2020, 12, 1109-1116. | 3.7 | 17 |
| 8 | 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 |
| 9 | The Relationship among Electronic Polarizability, Photoelasticity, and Refractivity in Ternary Phosphate Glasses. Physica Status Solidi (B): Basic Research, 2020, 257, 2000146. | 1.5 | 4 |
| 10 | Solid State NMR: A Powerful Tool for the Characterization of Borophosphate Glasses. Molecules, 2020, 25, 428. | 3.8 | 21 |
| 11 | Ionic Conductivity of Lithium Germanium Phosphate Glass-Ceramics. Journal of Physical Chemistry C, 2019, 123, 23312-23322. | 3.1 | 18 |
| 12 | 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 |
| 13 | Impact of Thermal Aging on the SCR Performance of Tungsten Doped CeVO4 Mixed Oxides. Topics in Catalysis, 2019, 62, 49-55. | 2.8 | 1 |
| 14 | Are calcium silicate hydrates (C-S-H) present in alkali-activated glass cullet cement?. Materials Letters, 2018, 219, 104-108. | 2.6 | 9 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Recent Developments in NMR Studies of Aluminophosphates. Annual Reports on NMR Spectroscopy, 2018, 94, 113-185. | 1.5 | 14 |

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| 19 | 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 |
| 20 | Nd<sup>3+</sup>: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 |
| 21 | 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 |
| 22 | Mixed alkali silicophosphate oxynitride glasses: Structure-property relations. Journal of Non-Crystalline Solids, 2017, 462, 51-64. | 3.1 | 15 |
| 23 | Structureâ€“properties relationships in fibre drawing of bioactive phosphate glasses. Journal of Materials Science, 2017, 52, 9166-9178. | 3.7 | 9 |
| 24 | 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 |
| 25 | On shrinkage and structure changes of pure and blended Portland concretes. Journal of the American Ceramic Society, 2017, 100, 4131-4152. | 3.8 | 5 |
| 26 | 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 |
| 27 | Kinetic fragility and structure of lithium borophosphate glasses analysed by 1D/2D NMR. Physical Chemistry Chemical Physics, 2017, 19, 22777-22784. | 2.8 | 14 |
| 28 | 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 |
| 29 | Preferential bonding in low alkali borosilicate glasses. Journal of Commonwealth Law and Legal Education, 2017, 58, 171-179. | 0.5 | 7 |
| 30 | Structural Features of Li<scp>PON</scp> Glasses Determined by 1D and 2D <sup>31</sup>P <scp>MAS NMR</scp>. International Journal of Applied Glass Science, 2016, 7, 69-79. | 2.0 | 16 |
| 31 | 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 |
| 32 | Zero photoelastic and water durable ZnOâ€“SnOâ€“P2O5â€“B2O3 glasses. APL Materials, 2015, 3, . | 5.1 | 18 |
| 33 | 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 |
| 34 | 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 |
| 35 | 71Ga NMR in chalcogenide and chalco-halide glasses. Journal of Non-Crystalline Solids, 2014, 383, 216-221. | 3.1 | 7 |
| 36 | The D-HMQC MAS-NMR Technique. Annual Reports on NMR Spectroscopy, 2014, , 145-184. | 1.5 | 52 |

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| 37 | Structure and electrical properties of a new thio-phosphorus oxynitride glass electrolyte. Journal of Non-Crystalline Solids, 2014, 405, 159-162. | 3.1 | 12 |
| 38 | Nitrogen and fluorine anionic substitution in lithium phosphate glasses. Solid State Ionics, 2014, 254, 40-47. | 2.7 | 15 |
| 39 | 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 |
| 40 | 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 |
| 41 | Study of the thermal degradation of an aluminium phosphinateâ€“aluminium trihydrate combination. Thermochimica Acta, 2013, 551, 175-183. | 2.7 | 32 |
| 42 | Fine Hierarchy of the Vâ€“O Bonds by Advanced Solid State NMR: Novel Pb<sub>4</sub>(VO<sub>2</sub>)(PO<sub>4</sub>)<sub>3</sub> Structure as a Textbook Case. Inorganic Chemistry, 2012, 51, 13108-13113. | 4.0 | 9 |
| 43 | Novel Tailormade Bi<sub>4</sub>MO<sub>4</sub>(PO<sub>4</sub>)<sub>2</sub> Structural Type (M) Tj ETQq1 1 0.784314 rgBT /C | 4.0 | 27 |
| 44 | Inhibition of the catalytic oxidation of carbon/carbon composite materials by an aluminophosphate coating. Carbon, 2012, 50, 3440-3445. | 10.3 | 12 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Local relaxation in lanthanum silicate oxyapatites by Raman scattering and MASâ€NMR. Journal of Raman Spectroscopy, 2011, 42, 1455-1461. | 2.5 | 20 |
| 49 | A Wellâ€Defined Silicaâ€Supported Lanthanum Bis(phosphinimino)methanide. European Journal of Inorganic Chemistry, 2011, 2011, 1366-1369. | 2.0 | 10 |
| 50 | 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 |
| 51 | 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 |
| 52 | Anion-Vacancy-Induced Magnetoâ^'Crystalline Anisotropy in Fluorine-Doped Hexagonal Cobaltites. Journal of the American Chemical Society, 2010, 132, 4865-4875. | 13.7 | 20 |
| 53 | Glass-forming ability and structure of ZnOâ€“MoO3â€“P2O5 glasses. Journal of Non-Crystalline Solids, 2010, 356, 2509-2516. | 3.1 | 49 |
| 54 | Polymerization of racemic Î²-butyrolactone using supported catalysts: a simple access to isotactic polymers. Chemical Communications, 2010, 46, 1032. | 4.1 | 80 |

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| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | Solid-state NMR covariance of homonuclear correlation spectra. Journal of Chemical Physics, 2008, 128, 134502. | 3.0 | 24 |
| 60 | 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 |
| 61 | An advanced NMR protocol for the structural characterization of aluminophosphate glasses. Solid State Nuclear Magnetic Resonance, 2007, 32, 44-52. | 2.3 | 65 |
| 62 | 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 |
| 63 | Phase identification and quantification in a devitrified glass using homo- and heteronuclear solid-state NMR. Chemical Communications, 2005, , 5289. | 4.1 | 20 |
| 64 | Redox and structure of sodium-vanadophosphate glasses. Journal of Non-Crystalline Solids, 2004, 345-346, 56-60. | 3.1 | 45 |