# Gerald Lelong

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4101065/publications.pdf

Version: 2024-02-01

| 50 | 1,279 | 331670 | 361022 |
|---|---|---|---|
| papers | citations | 21 h-index | 35 g-index |

| 52 | 52 | 52 | 2155 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Radiation damage in ion-irradiated CeO2 and (Ce, Gd)O2 sinters: Effect of the Gd content. Journal of Nuclear Materials, 2022, 564, 153667. | 2.7 | 3 |
| 2 | Flash Colloidal Gold Nanoparticle Assembly in a Milli Flow System: Implications for Thermoplasmonic and for the Amplification of Optical Signals. ACS Applied Nano Materials, 2022, 5, 6964-6971. | 5.0 | 0 |
| 3 | Raman spectroscopy study of damage in swift heavy ionâ€irradiated ceramics. Journal of Raman Spectroscopy, 2022, 53, 1614-1624. | 2.5 | 4 |
| 4 | Recovery of damage in electron-irradiated ceria. Journal of Applied Physics, 2021, 129, . | 2.5 | 2 |
| 5 | Lithium Borates from the Glass to the Melt: A Temperature-Induced Structural Transformation Viewed from the Boron and Oxygen Atoms. Inorganic Chemistry, 2021, 60, 798-806. | 4.0 | 11 |
| 6 | Quantification of non-bridging oxygens in silicates using X-ray Raman scattering. Journal of Non-Crystalline Solids, 2020, 528, 119715. | 3.1 | 7 |
| 7 | Unexpected intracellular biodegradation and recrystallization of gold nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 103-113. | 7.1 | 147 |
| 8 | Structural significance of nickel sites in aluminosilicate glasses. Journal of Non-Crystalline Solids, 2020, 539, 120070. | 3.1 | 4 |
| 9 | Ferrous Iron Under Oxygenâ€Rich Conditions in the Deep Mantle. Geophysical Research Letters, 2019, 46, 1348-1356. | 4.0 | 22 |
| 10 | Vibrational dynamics of confined supercooled water. Journal of Chemical Physics, 2019, 150, 224504. | 3.0 | 13 |
| 11 | Optical spectroscopy study of modifications induced in cerium dioxide by electron and ion irradiations. Philosophical Magazine, 2019, 99, 1695-1714. | 1.6 | 9 |
| 12 | Speciation Change of Uranyl in Lithium Borate Glasses. Inorganic Chemistry, 2019, 58, 6858-6865. | 4.0 | 23 |
| 13 | Polymerized 4-Fold Coordinated Carbonate Melts in the Deep Mantle. Frontiers in Earth Science, 2019, 7, . | 1.8 | 3 |
| 14 | Ice crystallization observed in highly supercooled confined water. Physical Chemistry Chemical Physics, 2019, 21, 4931-4938. | 2.8 | 13 |
| 15 | Optical reflectivity of ion-irradiated cerium dioxide sinters. Journal of Applied Physics, 2019, 126, 175902. | 2.5 | 7 |
| 16 | Structural transformations and spectroscopic properties of Ni-doped magnesium aluminosilicate glass-ceramics nucleated by a mixture of TiO2 and ZrO2 for broadband near-IR light emission. Journal of Alloys and Compounds, 2019, 780, 137-146. | 5.5 | 25 |
| 17 | Defects induced in cerium dioxide single crystals by electron irradiation. Journal of Applied Physics, 2018, 123, 025901. | 2.5 | 15 |
| 18 | Damage induced in garnets by heavy ion irradiations: a study by optical spectroscopies. Philosophical Magazine, 2018, 98, 312-328. | 1.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Color-center formation and thermal recovery in X-ray and electron-irradiated magnesium aluminate spinel. Journal of Applied Physics, 2018, 124, . | 2.5 | 5 |
| 20 | First-principles modeling of x-ray Raman scattering spectra. Physical Review B, 2018, 98, . | 3.2 | 9 |
| 21 | Ultrahigh-Resolution <sup>7</sup>Li Magic-Angle Spinning Nuclear Magnetic Resonance Spectroscopy by Isotopic Dilution. Chemistry of Materials, 2018, 30, 5521-5526. | 6.7 | 18 |
| 22 | Colour centre recovery in yttria-stabilised zirconia: photo-induced versus thermal processes. Philosophical Magazine, 2018, 98, 1241-1255. | 1.6 | 4 |
| 23 | Lithium borate crystals and glasses: How similar are they? A non-resonant inelastic X-ray scattering study around the B and O K -edges. Journal of Non-Crystalline Solids, 2017, 472, 1-8. | 3.1 | 28 |
| 24 | Color-center production and recovery in electron-irradiated magnesium aluminate spinel and ceria. Journal of Physics Condensed Matter, 2016, 28, 325901. | 1.8 | 27 |
| 25 | Calculation of optical and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>K</mml:mi></mml:math>pre-edge absorption spectra for ferrous iron of distorted sites in oxide crystals. Physical Review B, 2016, 94, . | 3.2 | 13 |
| 26 | Effect of cation field strength on Co2+ speciation in alkali-borate glasses. Journal of Non-Crystalline Solids, 2016, 451, 101-110. | 3.1 | 28 |
| 27 | Assessment of Transition Element Speciation in Glasses Using a Portable Transmission Ultravioletâ€“Visibleâ€“Near-Infrared (UV-Vis-NIR) Spectrometer. Applied Spectroscopy, 2016, 70, 778-784. | 2.2 | 12 |
| 28 | Optical Absorption Microspectroscopy (Î¼-OAS) Based on Schwarzschild-Type Cassegrain Optics. Applied Spectroscopy, 2015, 69, 457-463. | 2.2 | 9 |
| 29 | Structural evolution of Ni environment in lithium, magnesium and zinc aluminosilicate glasses and glass-ceramics. Journal of Non-Crystalline Solids, 2015, 413, 24-33. | 3.1 | 19 |
| 30 | Diluted Fe 3+ in silicate glasses: Structural effects of Fe-redox state and matrix composition. An optical absorption and X-band/Q-band EPR study. Journal of Non-Crystalline Solids, 2015, 428, 138-145. | 3.1 | 46 |
| 31 | In situ evolution of Ni environment in magnesium aluminosilicate glasses and glassâ€“ceramicsâ€“Influence of ZrO2 and TiO2 nucleating agents. Journal of Physics and Chemistry of Solids, 2015, 78, 137-146. | 4.0 | 9 |
| 32 | In situ local environment and partitioning of Ni 2+ ions during crystallization of an oxyfluoride glass. Journal of Non-Crystalline Solids, 2015, 408, 7-12. | 3.1 | 15 |
| 33 | The Structural Properties of Cations in Nuclear Glasses. , 2014, 7, 23-31. | | 34 |
| 34 | Detecting Non-bridging Oxygens: Non-Resonant Inelastic X-ray Scattering in Crystalline Lithium Borates. Inorganic Chemistry, 2014, 53, 10903-10908. | 4.0 | 26 |
| 35 | Local Ordering Around Tetrahedral Co<sup>2+</sup> in Silicate Glasses. Journal of the American Ceramic Society, 2014, 97, 60-62. | 3.8 | 33 |
| 36 | Crystal Structures of Li<sub>6</sub>B<sub>4</sub>O<sub>9</sub> and Li<sub>3</sub>B<sub>11</sub>O<sub>18</sub> and Application of the Dimensional Reduction Formalism to Lithium Borates. Inorganic Chemistry, 2014, 53, 6034-6041. | 4.0 | 39 |

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|---|---|---|---|
| 37 | Free energy landscapes of the Î±-<scp>d</scp>- and Î²-<scp>d</scp>-glucopyranose conformations in both vacuum and aqueous solution. Molecular Simulation, 2012, 38, 1186-1197. | 2.0 | 5 |
| 38 | Evidence of fivefold-coordinated Ge atoms in amorphous GeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>under pressure using inelastic x-ray scattering. Physical Review B, 2012, 85, . | 3.2 | 53 |
| 39 | Role of Glucose in Enhancing Stability of Aqueous Silica Gels Against Dehydration. Journal of Physical Chemistry C, 2012, 116, 9481-9486. | 3.1 | 6 |
| 40 | Molecular Dynamics and Neutron Scattering Study of Glucose Solutions Confined in MCM-41. Journal of Physical Chemistry B, 2011, 115, 910-918. | 2.6 | 37 |
| 41 | Scattering Techniques. , 2011, , 3-52. | | 1 |
| 42 | Water Confined in Cylindrical Pores: A Molecular Dynamics Study. Food Biophysics, 2011, 6, 233-240. | 3.0 | 33 |
| 43 | Uptake of Functionalized Mesoporous Silica Nanoparticles by Human Cancer Cells. Journal of Nanoscience and Nanotechnology, 2010, 10, 2314-2324. | 0.9 | 32 |
| 44 | Translational and Rotational Dynamics of Monosaccharide Solutions. Journal of Physical Chemistry B, 2009, 113, 13079-13085. | 2.6 | 28 |
| 45 | Effect of Surfactant Concentration on the Morphology and Texture of MCM-41 Materials. Journal of Physical Chemistry C, 2008, 112, 10674-10680. | 3.1 | 67 |
| 46 | Dynamics of trehalose molecules in confined solutions. Journal of Chemical Physics, 2007, 127, 065102. | 3.0 | 21 |
| 47 | Recent progress in the synthesis and selected applications of MCM-41: a short review. Journal of Experimental Nanoscience, 2006, 1, 375-395. | 2.4 | 74 |
| 48 | Fluorescent silver oligomeric clusters and colloidal particles. Solid State Sciences, 2005, 7, 812-818. | 3.2 | 95 |
| 49 | Molecular dynamics of confined glucose solutions. Journal of Chemical Physics, 2005, 122, 164504. | 3.0 | 17 |
| 50 | Physical and optical properties of sol-gel nano-silver doped silica film on glass substrate as a function of heat-treatment temperature. Journal of Applied Physics, 2003, 93, 9553-9561. | 2.5 | 122 |