

Gerald Lelong

List of Publications by Year in descending order

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50
papers

1,279
citations

331670

21
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

2155
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Fluorescent silver oligomeric clusters and colloidal particles. Solid State Sciences, 2005, 7, 812-818.	3.2	95
4	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
5	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
6	Evidence of fivefold-coordinated Ge atoms in amorphous GeO \times under pressure using inelastic x-ray scattering. Physical Review B, 2012, 85, .	3.2	53
7	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
8	Crystal Structures of Li ₆ B ₄ O ₉ and Li ₃ B ₁₁ O ₁₈ and Application of the Dimensional Reduction Formalism to Lithium Borates. Inorganic Chemistry, 2014, 53, 6034-6041.	4.0	39
9	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
10	The Structural Properties of Cations in Nuclear Glasses. , 2014, 7, 23-31.		34
11	Water Confined in Cylindrical Pores: A Molecular Dynamics Study. Food Biophysics, 2011, 6, 233-240.	3.0	33
12	Local Ordering Around Tetrahedral Co ²⁺ in Silicate Glasses. Journal of the American Ceramic Society, 2014, 97, 60-62.	3.8	33
13	Uptake of Functionalized Mesoporous Silica Nanoparticles by Human Cancer Cells. Journal of Nanoscience and Nanotechnology, 2010, 10, 2314-2324.	0.9	32
14	Translational and Rotational Dynamics of Monosaccharide Solutions. Journal of Physical Chemistry B, 2009, 113, 13079-13085.	2.6	28
15	Effect of cation field strength on Co ²⁺ speciation in alkali-borate glasses. Journal of Non-Crystalline Solids, 2016, 451, 101-110.	3.1	28
16	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
17	Color-center production and recovery in electron-irradiated magnesium aluminate spinel and ceria. Journal of Physics Condensed Matter, 2016, 28, 325901.	1.8	27
18	Detecting Non-bridging Oxygens: Non-Resonant Inelastic X-ray Scattering in Crystalline Lithium Borates. Inorganic Chemistry, 2014, 53, 10903-10908.	4.0	26

#	ARTICLE	IF	CITATIONS
19	Structural transformations and spectroscopic properties of Ni-doped magnesium aluminosilicate glass-ceramics nucleated by a mixture of TiO ₂ and ZrO ₂ for broadband near-IR light emission. Journal of Alloys and Compounds, 2019, 780, 137-146.	5.5	25
20	Speciation Change of Uranyl in Lithium Borate Glasses. Inorganic Chemistry, 2019, 58, 6858-6865.	4.0	23
21	Ferrous Iron Under Oxygen-Rich Conditions in the Deep Mantle. Geophysical Research Letters, 2019, 46, 1348-1356.	4.0	22
22	Dynamics of trehalose molecules in confined solutions. Journal of Chemical Physics, 2007, 127, 065102.	3.0	21
23	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
24	Ultrahigh-Resolution ⁷ Li Magic-Angle Spinning Nuclear Magnetic Resonance Spectroscopy by Isotopic Dilution. Chemistry of Materials, 2018, 30, 5521-5526.	6.7	18
25	Molecular dynamics of confined glucose solutions. Journal of Chemical Physics, 2005, 122, 164504.	3.0	17
26	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
27	Defects induced in cerium dioxide single crystals by electron irradiation. Journal of Applied Physics, 2018, 123, 025901.	2.5	15
28	Calculation of optical and K pre-edge absorption spectra for ferrous iron of distorted sites in oxide crystals. Physical Review B, 2016, 94, .	3.2	13
29	Vibrational dynamics of confined supercooled water. Journal of Chemical Physics, 2019, 150, 224504.	3.0	13
30	Ice crystallization observed in highly supercooled confined water. Physical Chemistry Chemical Physics, 2019, 21, 4931-4938.	2.8	13
31	Assessment of Transition Element Speciation in Glasses Using a Portable Transmission Ultraviolet-Visible-Near-Infrared (UV-Vis-NIR) Spectrometer. Applied Spectroscopy, 2016, 70, 778-784.	2.2	12
32	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
33	Optical Absorption Microspectroscopy ($\frac{1}{4}$ -OAS) Based on Schwarzschild-Type Cassegrain Optics. Applied Spectroscopy, 2015, 69, 457-463.	2.2	9
34	In situ evolution of Ni environment in magnesium aluminosilicate glasses and glass-ceramics: Influence of ZrO ₂ and TiO ₂ nucleating agents. Journal of Physics and Chemistry of Solids, 2015, 78, 137-146.	4.0	9
35	First-principles modeling of x-ray Raman scattering spectra. Physical Review B, 2018, 98, .	3.2	9
36	Optical spectroscopy study of modifications induced in cerium dioxide by electron and ion irradiations. Philosophical Magazine, 2019, 99, 1695-1714.	1.6	9

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37	Optical reflectivity of ion-irradiated cerium dioxide sinters. Journal of Applied Physics, 2019, 126, 175902.	2.5	7
38	Quantification of non-bridging oxygens in silicates using X-ray Raman scattering. Journal of Non-Crystalline Solids, 2020, 528, 119715.	3.1	7
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	Free energy landscapes of the ${}^1\text{C}_4$ - and ${}^2\text{C}_5$ -glucopyranose conformations in both vacuum and aqueous solution. Molecular Simulation, 2012, 38, 1186-1197.	2.0	5
41	Damage induced in garnets by heavy ion irradiations: a study by optical spectroscopies. Philosophical Magazine, 2018, 98, 312-328.	1.6	5
42	Color-center formation and thermal recovery in X-ray and electron-irradiated magnesium aluminate spinel. Journal of Applied Physics, 2018, 124, .	2.5	5
43	Colour centre recovery in yttria-stabilised zirconia: photo-induced versus thermal processes. Philosophical Magazine, 2018, 98, 1241-1255.	1.6	4
44	Structural significance of nickel sites in aluminosilicate glasses. Journal of Non-Crystalline Solids, 2020, 539, 120070.	3.1	4
45	Raman spectroscopy study of damage in swift heavy ion-irradiated ceramics. Journal of Raman Spectroscopy, 2022, 53, 1614-1624.	2.5	4
46	Polymerized 4-Fold Coordinated Carbonate Melts in the Deep Mantle. Frontiers in Earth Science, 2019, 7, .	1.8	3
47	Radiation damage in ion-irradiated CeO ₂ and (Ce, Gd)O ₂ sinters: Effect of the Gd content. Journal of Nuclear Materials, 2022, 564, 153667.	2.7	3
48	Recovery of damage in electron-irradiated ceria. Journal of Applied Physics, 2021, 129, .	2.5	2
49	Scattering Techniques. , 2011, , 3-52.		1
50	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