

# Lyle Gordon

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,068  
citations

687363

13  
h-index

752698

20  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and Solutions in the Characterization of Hierarchically Structured, Functionally Graded Tooth Biomaterials. <i>Microscopy and Microanalysis</i> , 2020, 26, 1592-1594.	0.4	0
2	Chemical gradients in human enamel crystallites. <i>Nature</i> , 2020, 583, 66-71.	27.8	112
3	Three-dimensional nanoscale characterisation of materials by atom probe tomography. <i>International Materials Reviews</i> , 2018, 63, 68-101.	19.3	119
4	A contribution to the characterization of the silicate-water interface " Part I: Implication of a new polished sample hydration technique. <i>Micron</i> , 2018, 112, 63-68.	2.2	2
5	Anomalous water expulsion from carbon-based rods at high humidity. <i>Nature Nanotechnology</i> , 2016, 11, 791-797.	31.5	11
6	Atom Probe of Apatites - from Single Crystals to Interphases in Tooth Enamel. <i>Microscopy and Microanalysis</i> , 2015, 21, 519-520.	0.4	1
7	Chemical Imaging of Interfaces and in Interphases in Tooth Enamel. <i>Microscopy and Microanalysis</i> , 2015, 21, 2293-2294.	0.4	0
8	Mapping residual organics and carbonate at grain boundaries and the amorphous interphase in mouse incisor enamel. <i>Frontiers in Physiology</i> , 2015, 6, 57.	2.8	45
9	Atom Probe Tomography of Feldspars and Aluminosilicate Glasses. <i>Microscopy and Microanalysis</i> , 2015, 21, 853-854.	0.4	1
10	In Situ Environmental Transmission Electron Microscopy of Ice Nucleation. <i>Microscopy and Microanalysis</i> , 2015, 21, 425-426.	0.4	0
11	Amorphous intergranular phases control the properties of rodent tooth enamel. <i>Science</i> , 2015, 347, 746-750.	12.6	184
12	Selective Formation of Metastable Ferrihydrite in the Chiton Tooth. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11506-11509.	13.8	17
13	Applicability of post-ionization theory to laser-assisted field evaporation of magnetite. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	24
14	On the current role of atom probe tomography in materials characterization and materials science. <i>Current Opinion in Solid State and Materials Science</i> , 2013, 17, 217-223.	11.5	52
15	Correlative Microscopy and Spectroscopy of Buried Interfaces in Tooth Enamel. <i>Microscopy and Microanalysis</i> , 2013, 19, 1634-1635.	0.4	1
16	Constraining Atom Probe Tomography Reconstructions of Crystalline Oxides. <i>Microscopy and Microanalysis</i> , 2013, 19, 1010-1011.	0.4	0
17	Atom Probe Tomography of Organic/Inorganic Interfaces in Biomaterials. <i>Microscopy and Microanalysis</i> , 2012, 18, 1608-1609.	0.4	2
18	Atom Probe Tomography of Apatites and Bone-Type Mineralized Tissues. <i>ACS Nano</i> , 2012, 6, 10667-10675.	14.6	100

#	ARTICLE	IF	CITATIONS
19	A Novel Thiol-Modified Hyaluronan and Elastin-Like Polypeptide Composite Material for Tissue Engineering of the Nucleus Pulposus of the Intervertebral Disc. <i>Spine</i> , 2011, 36, 1022-1029.	2.0	47
20	Nanoscale chemical tomography of buried organic–inorganic interfaces in the chiton tooth. <i>Nature</i> , 2011, 469, 194-197.	27.8	251
21	Micro-truss nanocrystalline Ni hybrids. <i>Acta Materialia</i> , 2009, 57, 932-939.	7.9	24
22	Quantitative characterization of metastatic disease in the spine. Part I. Semiautomated segmentation using atlas-based deformable registration and the level set method. <i>Medical Physics</i> , 2007, 34, 3127-3134.	3.0	45
23	Quantitative characterization of metastatic disease in the spine. Part II. Histogram-based analyses. <i>Medical Physics</i> , 2007, 34, 3279-3285.	3.0	27