Lou Santodonato

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In-Situ Study of Microstructure Evolution of Spinodal Decomposition in an Al-Rich High-Entropy Alloy. Frontiers in Materials, 2022, 9, .	1.2	2
2	Quantification of Sub-Pixel Dynamics in High-Speed Neutron Imaging. Journal of Imaging, 2022, 8, 201.	1.7	1
3	Dynamics of hydrogen loss and structural changes in pyrolyzing biomass utilizing neutron imaging. Carbon, 2021, 176, 511-529.	5.4	5
4	Materials Fingerprinting Classification. Computer Physics Communications, 2021, 266, 108019.	3.0	6
5	Effects of aluminum content on thermoelectric performance of Al CoCrFeNi high-entropy alloys. Journal of Alloys and Compounds, 2021, 883, 160811.	2.8	12
6	Water Migration and Swelling in Engineered Barrier Materials for Radioactive Waste Disposal. Nuclear Technology, 2021, 207, 1237-1256.	0.7	2
7	Effect of Fluid Properties on Contact Angles in the Eagle Ford Shale Measured with Spontaneous Imbibition. ACS Omega, 2021, 6, 32618-32630.	1.6	0
8	Neutron imaging of lithium concentration in LiNi0.33Mn0.33Co0.33O2 cathode. Journal of Neutron Research, 2020, 22, 43-48.	0.4	2
9	Predicting phase behavior in high entropy and chemically complex alloys. Materials Characterization, 2020, 170, 110719.	1.9	7
10	LiF/CsI:Tl Scintillator for High-Resolution Neutron Imaging. IEEE Transactions on Nuclear Science, 2019, 66, 2261-2264.	1.2	5
11	In-Situ Imaging of Molten High-Entropy Alloys Using Cold Neutrons. Journal of Imaging, 2019, 5, 29.	1.7	3
12	Simultaneous Neutron Radiography of Metal Nozzle Geometry and Near-Field Spray. , 2019, , .		0
13	SPONTANEOUS IMBIBITION OF A WETTING FLUID INTO A FRACTURE WITH OPPOSING FRACTAL SURFACES: THEORY AND EXPERIMENTAL VALIDATION. Fractals, 2019, 27, 1940001.	1.8	10
14	Potential limits of capacitive deionization and membrane capacitive deionization for water electrolysis. Separation Science and Technology, 2019, 54, 2112-2125.	1.3	16
15	Simultaneous Neutron Radiography of Metal Nozzle Geometry and Near-Field Spray. Journal of Propulsion and Power, 2019, 35, 419-423.	1.3	1
16	In situ monitoring of hydrogen loss during pyrolysis of wood by neutron imaging. Proceedings of the Combustion Institute, 2019, 37, 1273-1280.	2.4	8
17	Chemical short-range orders and the induced structural transition in high-entropy alloys. Scripta Materialia, 2018, 144, 64-68.	2.6	115
18	Quantifying root water extraction after drought recovery using sub-mm in situ empirical data. Plant and Soil, 2018, 424, 73-89.	1.8	16

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19	Neutron Imaging and Electrochemical Characterization of a Glucose Oxidase-Based Enzymatic Electrochemical Cell. Journal of Electrochemical Energy Conversion and Storage, 2018, 15, .	1.1	3
20	Plasticity Enhancement by Fe-Addition on NiAl Alloy: A Synchrotron X-ray Diffraction Mapping and Molecular Dynamics Simulation Study. Quantum Beam Science, 2018, 2, 18.	0.6	0
21	Predictive multiphase evolution in Al-containing high-entropy alloys. Nature Communications, 2018, 9, 4520.	5.8	107
22	In-Situ Imaging of Liquid Phase Separation in Molten Alloys Using Cold Neutrons. Journal of Imaging, 2018, 4, 5.	1.7	7
23	Feasibility Study of Making Metallic Hybrid Materials Using Additive Manufacturing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5035-5041.	1.1	13
24	Identification of lithium hydride and its hydrolysis products with neutron imaging. Journal of Nuclear Materials, 2017, 485, 147-153.	1.3	10
25	In-situ neutron imaging of hydrogenous fuels in combustion generated porous carbons under dynamic and steady state pressure conditions. Carbon, 2017, 116, 766-776.	5.4	6
26	Setup for polarized neutron imaging using <i>in situ</i> â€^3He cells at the Oak Ridge National Laboratory High Flux Isotope Reactor CG-1D beamline. Review of Scientific Instruments, 2017, 88, 095103.	0.6	12
27	Spontaneous imbibition of water and determination of effective contact angles in the Eagle Ford Shale Formation using neutron imaging. Journal of Earth Science (Wuhan, China), 2017, 28, 874-887.	1.1	32
28	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. Journal of Imaging, 2017, 3, 65.	1.7	31
29	Advanced Characterization Techniques. , 2016, , 115-150.		0
30	LISe pixel detector for neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 142-148.	0.7	12
31	Lithium indium diselenide: A new scintillator for neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 140-149.	0.7	13
32	Ex Situ and In Situ Neutron Imaging of Enzymatic Electrochemical Cells. Electrochimica Acta, 2016, 213, 244-251.	2.6	4
33	Analysis and simulation of a blue energy cycle. Renewable Energy, 2016, 91, 249-260.	4.3	14
34	Flexible sample environment for high resolution neutron imaging at high temperatures in controlled atmosphere. Review of Scientific Instruments, 2015, 86, 125109.	0.6	13
35	A new apparatus design for high temperature (up to 950 °C) quasi-elastic neutron scattering in a controlled gaseous environment. Review of Scientific Instruments, 2015, 86, 095102.	0.6	8
36	The CG-1D Neutron Imaging Beamline at the Oak Ridge National Laboratory High Flux Isotope Reactor. Physics Procedia, 2015, 69, 104-108.	1.2	46

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37	Rapid imbibition of water in fractures within unsaturated sedimentary rock. Advances in Water Resources, 2015, 77, 82-89.	1.7	59
38	Deviation from high-entropy configurations in the atomic distributions of a multi-principal-element alloy. Nature Communications, 2015, 6, 5964.	5.8	530
39	Tensile ductility of an AlCoCrFeNi multi-phase high-entropy alloy through hot isostatic pressing (HIP) and homogenization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 647, 229-240.	2.6	199
40	Local Structures of High-Entropy Alloys (HEAs) on Atomic Scales: An Overview. Jom, 2015, 67, 2321-2325.	0.9	34
41	Investigation of a Lithium Indium Diselenide detector for neutron transmission imaging. Proceedings of SPIE, 2014, , .	0.8	0
42	Measurements of liquid and glass structures using aerodynamic levitation and in-situ high energy x-ray and neutron scattering. Journal of Non-Crystalline Solids, 2014, 383, 49-51.	1.5	41
43	Structure of Molten CaSiO ₃ : Neutron Diffraction Isotope Substitution with Aerodynamic Levitation and Molecular Dynamics Study. Journal of Physical Chemistry B, 2012, 116, 13439-13447.	1.2	56
44	Neutron Laue Diffraction Study on the Magnetic Phase Diagram of Multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MnWO</mml:mi><mml:mn>4</mml:mn></mml:msub>un Pulsed High Magnetic Fields. Physical Review Letters. 2011, 106, 237202.</mml:math 	der ^{2.9}	49
45	TEMPERATURE CONTROL DIAGNOSTICS FOR SAMPLE ENVIRONMENTS. , 2010, , .		0
46	Automated sample exchange and tracking system for neutron research at cryogenic temperatures. Review of Scientific Instruments, 2007, 78, 013907.	0.6	7
47	Quantum dynamics of interstitialH2in solidC60. Physical Review B, 1999, 60, 6439-6451.	1.1	79
48	Template Mediated Growth of Rare Earth Carbides. Journal of the American Chemical Society, 1996, 118, 12860-12861.	6.6	1
49	Structural phase transition of high-stageMoCl5graphite intercalation compounds. Physical Review B, 1991, 43, 5805-5814.	1.1	6
50	Structural and magnetic properties of random mixture graphite intercalation compounds. Journal of Materials Research, 1990, 5, 422-434.	1.2	9
51	Electrical resistivity and magnetic susceptibility inBiCaSrCu2Oy. Physical Review B, 1988, 38, 2851-2853.	1.1	2
52	High-Resolution X-Ray and Neutron Computed Tomography of an Engine Combustion Network Spray G Gasoline Injector. SAE International Journal of Fuels and Lubricants, 0, 10, 328-343.	0.2	13