

Richard A Livingston

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2967654/publications.pdf>

Version: 2024-02-01

41
papers

2,110
citations

858243

12
h-index

536525

29
g-index

41
all docs

41
docs citations

41
times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	Seneca sandstone: a heritage stone from the USA. Geological Society Special Publication, 2020, 486, 163-176.	0.8	3
2	Chemical Compound Classification by Elemental Signatures in Castle Dust Using SEM Automated X-ray Particle Analysis. Microscopy and Microanalysis, 2018, 24, 718-719.	0.2	2
3	Investigation of a Simulated Chinese Jade Dagger by Multiple Imaging Techniques. Microscopy and Microanalysis, 2018, 24, 2146-2147.	0.2	0
4	Cements in the 21 st century: Challenges, perspectives, and opportunities. Journal of the American Ceramic Society, 2017, 100, 2746-2773.	1.9	168
5	Rock varnish on architectural stone: microscopy and analysis of nanoscale manganese oxide deposits on the Smithsonian Castle, Washington, DC. Heritage Science, 2016, 4, .	1.0	16
6	Application of Individual Glass Particle Data to Estimate Uncertainties in Bulk Fly Ash Chemical Compositions. , 2016, , 41-54.		0
7	Manganese in Black Crusts on Seneca Sandstone. Microscopy and Microanalysis, 2014, 20, 2044-2045.	0.2	4
8	Mechanisms of cement hydration. Cement and Concrete Research, 2011, 41, 1208-1223.	4.6	1,446
9	Numerical simulation of the PGNA signal from chlorine diffusion gradients in concrete. Applied Radiation and Isotopes, 2010, 68, 679-682.	0.7	7
10	Characterization of fly ash reactivity in hydrating cement by neutron scattering. Journal of Materials Research, 2009, 24, 2435-2448.	1.2	9
11	Monte Carlo simulations of a portable prompt gamma system for nondestructive determination of chloride in reinforced concrete. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3397-3405.	0.6	7
12	Microscopic investigation of modified hydration kinetics in tricalcium silicate paste and mortar strength caused by dicalcium silicate addition. Journal of Materials Research, 2008, 23, 1015-1019.	1.2	3
13	Chaos theory analysis of a cable-stayed bridge: Part II. Analysis of monitoring data for base-line conditions. , 2007, , .		1
14	Effect of NaOH on the kinetics of tricalcium silicate hydration: A quasielastic neutron scattering study. Chemical Physics Letters, 2006, 419, 16-20.	1.2	24
15	Quasielastic and inelastic neutron scattering study of the hydration of monoclinic and triclinic tricalcium silicate. Chemical Physics, 2006, 326, 381-389.	0.9	17
16	Inelastic neutron scattering investigation of hydrating tricalcium and dicalcium silicate mixture pastes: Ca(OH) ₂ formation and evolution of strength. Journal of Materials Research, 2006, 21, 1836-1842.	1.2	9
17	States of water in hydrated C3S (tricalcium silicate) as a function of relative humidity. Journal of Materials Research, 2006, 21, 2516-2523.	1.2	15
18	Nanoscale studies of cement chemistry with 15N resonance reaction analysis. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 441-445.	0.6	9

#	ARTICLE	IF	CITATIONS
19	Elastic and structural properties of alkaline-calcium silica hydrogels. <i>Journal of Materials Research</i> , 2005, 20, 344-349.	1.2	17
20	Hydration of Tricalcium and Dicalcium Silicate Mixtures Studied Using Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14449-14453.	1.2	72
21	Application of a maximum entropy method to estimate the probability density function of nonlinear or chaotic behavior in structural health monitoring data. , 2005, , .		1
22	Interactions of Hydrating Tricalcium and Dicalcium Silicate using Time-Resolved Quasielastic Neutron Scattering. <i>Materials Research Society Symposia Proceedings</i> , 2004, 840, Q2.2.1.	0.1	6
23	Fiber Optic Sensor Networks for Monitoring Existing Bridges. , 2002, , 65.		1
24	<title>Stochastic modeling of ambient traffic loadings in LS-DYNA nonlinear FE analysis</title>. , 2001, , .		1
25	<title>Stochastic system invariant spectrum analysis applied to smart systems in highway bridges</title>. , 2001, 4330, 301.		3
26	<title>Development of an LS-DYNA nonlinear finite element model for use in damage detection and health monitoring of highway bridges</title>. , 2001, 4337, 432.		2
27	<title>Lyapunov exponent maps applied to damage detection of aging nonlinear highway infrastructures</title>. , 2001, , .		3
28	<title>Application of nonlinear dynamics analysis to damage detection and health monitoring of highway structures</title>. , 2001, , .		5
29	State of Water in Hydrating Tricalcium Silicate and Portland Cement Pastes as Measured by Quasi-Elastic Neutron Scattering. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1811-1816.	1.9	101
30	Non-destructive tomographic energy-dispersive diffraction imaging of the interior of bulk concrete. <i>Cement and Concrete Research</i> , 2000, 30, 491-495.	4.6	42
31	Fractal nucleation and growth model for the hydration of tricalcium silicate. <i>Cement and Concrete Research</i> , 2000, 30, 1853-1860.	4.6	42
32	Time-of-flight calibration of a ⁶ Li glass epithermal neutron detector. <i>Applied Radiation and Isotopes</i> , 2000, 53, 773-777.	0.7	1
33	Characterization of Portland cement concrete microstructure using the scanning acoustic microscope. <i>Cement and Concrete Research</i> , 1999, 29, 287-291.	4.6	5
34	Nondestructive Testing of Historic Structures. <i>Archival Science</i> , 1999, 13, 249-271.	0.1	12
35	Relationship between differences in silica fume additives and fine-scale microstructural evolution in cement based materials. <i>Advanced Cement Based Materials</i> , 1998, 8, 118-131.	0.4	42
36	<title>Influence of flange, frequency, and liftoff on microwave detection of stress-induced fatigue cracks using open-ended rectangular waveguides</title>. , 1998, 3396, 208.		0

#	ARTICLE	IF	CITATIONS
37	<title>Embeddable-sensor monitoring strategies for the infrastructure</title>., 1996, , .		1
38	Standardization of the neutron probe for the assessment of masonry deterioration. Applied Radiation and Isotopes, 1993, 44, 1285-1300.	0.7	1
39	Use of tombstones in investigation of deterioration of stone monuments. Environmental Geology (New York), 1990, 16, 83-90.	0.3	7
40	The Application of the Neutron Probe to the Nondestructive Examination of Architectural and Archaeological Materials. Materials Research Society Symposia Proceedings, 1988, 123, 59.	0.1	1
41	Neutron/gamma-ray techniques for investigating the deterioration of historic buildings. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 242, 346-351.	0.7	4