

Denis Damidot

List of Publications by Year in descending order

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84
papers

4,739
citations

100601

38
h-index

111975

67
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85
all docs

85
docs citations

85
times ranked

4231
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of the Hardened Cement Paste Content in Fine Recycled Concrete Aggregates by Means of Salicylic Acid Dissolution. <i>Materials</i> , 2022, 15, 3384.	1.3	5
2	Leaching of CEM III paste by demineralised or mineralised water at pH 7 in relation with aluminium release in drinking water network. <i>Cement and Concrete Research</i> , 2021, 143, 106399.	4.6	4
3	Bioprecipitation of a calcium carbonate "Biofilm composite on the surface of concrete for the maintenance of nuclear reactor enclosures. <i>Construction and Building Materials</i> , 2020, 237, 117618.	3.2	11
4	Optimization of the formulation of an original hydrogel-based bone cement using a mixture design. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103886.	1.5	11
5	Colour and chemical stability of bismuth oxide in dental materials with solutions used in routine clinical practice. <i>PLoS ONE</i> , 2020, 15, e0240634.	1.1	34
6	Application de la biocicatrisation à la réparation des micro-fissures au sein d'enceintes de réacteurs nucléaires. <i>Materiaux Et Techniques</i> , 2020, 108, 303.	0.3	0
7	New insights into tricalcium silicate hydration in paste. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2965-2976.	1.9	22
8	Environmental hazard assessment by the Ecoscore system to discriminate PAH-polluted soils. <i>Environmental Science and Pollution Research</i> , 2018, 25, 26747-26756.	2.7	5
9	Biodeterioration of mortars exposed to sewers in relation to microbial diversity of biofilms formed on the mortars surface. <i>International Biodeterioration and Biodegradation</i> , 2018, 130, 23-31.	1.9	14
10	Influence of granular fraction and origin of recycled concrete aggregates on their properties. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, 1457-1467.	1.0	17
11	Formulation of mortars based on thermally treated sediments. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 592-603.	1.6	19
12	Microscopy in addition to chemical analyses and ecotoxicological assays for the environmental hazard assessment of coal tar-polluted soils. <i>Environmental Science and Pollution Research</i> , 2018, 25, 2594-2602.	2.7	2
13	Improving the properties of recycled concrete aggregates by accelerated carbonation. <i>Proceedings of Institution of Civil Engineers: Construction Materials</i> , 2018, 171, 126-132.	0.7	19
14	Use of uncontaminated marine sediments in mortar and concrete by partial substitution of cement. <i>Cement and Concrete Composites</i> , 2018, 93, 155-162.	4.6	62
15	Interactions between <i>Halothiobacillus neapolitanus</i> and mortars: Comparison of the biodeterioration between Portland cement and calcium aluminate cement. <i>International Biodeterioration and Biodegradation</i> , 2017, 121, 19-25.	1.9	16
16	Combined effects of lithium and borate ions on the hydration of calcium sulfoaluminate cement. <i>Cement and Concrete Research</i> , 2017, 97, 50-60.	4.6	60
17	On shrinkage and structure changes of pure and blended Portland concretes. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4131-4152.	1.9	5
18	Physico-chemical mechanisms involved in the acceleration of the hydration of calcium sulfoaluminate cement by lithium ions. <i>Cement and Concrete Research</i> , 2017, 96, 42-51.	4.6	57

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19	Microbiologically induced calcium carbonate precipitation to repair microcracks remaining after autogenous healing of mortars. <i>Construction and Building Materials</i> , 2017, 141, 461-469.	3.2	57
20	Effect of calcium gluconate, calcium lactate, and urea on the kinetics of self-healing in mortars. <i>Construction and Building Materials</i> , 2017, 157, 489-497.	3.2	31
21	Development of novel tricalcium silicate-based endodontic cements with sintered radiopacifier phase. <i>Clinical Oral Investigations</i> , 2016, 20, 967-982.	1.4	14
22	Valorisation of sediments in self-consolidating concrete: Mix-design and microstructure. <i>Construction and Building Materials</i> , 2015, 81, 1-10.	3.2	48
23	Dissolution rates during the early hydration of tricalcium silicate. <i>Cement and Concrete Research</i> , 2015, 72, 108-116.	4.6	46
24	Characterization of un-hydrated and hydrated BioAggregate [®] and MTA Angelus [®] . <i>Clinical Oral Investigations</i> , 2015, 19, 689-698.	1.4	40
25	Influence of sodium borate on the early age hydration of calcium sulfoaluminate cement. <i>Cement and Concrete Research</i> , 2015, 70, 83-93.	4.6	74
26	Influence of fine recycled concrete aggregates on the properties of mortars. <i>Construction and Building Materials</i> , 2015, 81, 179-186.	3.2	203
27	In Situ Assessment of the Setting of Tricalcium Silicate [®] -based Sealers Using a Dentin Pressure Model. <i>Journal of Endodontics</i> , 2015, 41, 111-124.	1.4	99
28	Biocicatrisation : application à la réparation de mortiers à base de ciment. <i>Materiaux Et Techniques</i> , 2015, 103, 207.	0.3	4
29	Influence of the intrinsic characteristics of mortars on their biofouling by pigmented organisms: Comparison between laboratory and field-scale experiments. <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 334-342.	1.9	38
30	Mercury Intrusion Porosimetry and Assessment of Cement-dentin Interface of Anti-washout-type Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2014, 40, 958-963.	1.4	14
31	Effect of blast furnace slag on self-healing of microcracks in cementitious materials. <i>Cement and Concrete Research</i> , 2014, 60, 68-82.	4.6	148
32	Analysis of disorder in tricalcium silicate by ²⁹ Si NMR spectroscopy and additional methods. <i>Cement and Concrete Research</i> , 2014, 57, 105-116.	4.6	10
33	Porosity and root dentine to material interface assessment of calcium silicate-based root-end filling materials. <i>Clinical Oral Investigations</i> , 2014, 18, 1437-1446.	1.4	75
34	Traitement de mortiers fissurés par biocicatrisation : vers une évaluation quantitative de l'efficacité bactérienne. <i>Materiaux Et Techniques</i> , 2014, 102, 105.	0.3	1
35	The setting characteristics of <sc>MTA</sc> Plus in different environmental conditions. <i>International Endodontic Journal</i> , 2013, 46, 831-840.	2.3	78
36	Avrami's law based kinetic modeling of colonization of mortar surface by alga <i>Klebsormidium flaccidum</i> . <i>International Biodeterioration and Biodegradation</i> , 2013, 79, 73-80.	1.9	31

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37	Characterization and quantification of self-healing behaviors of microcracks due to further hydration in cement paste. <i>Cement and Concrete Research</i> , 2013, 52, 71-81.	4.6	198
38	Influence of hardened cement paste content on the water absorption of fine recycled concrete aggregates. <i>Journal of Sustainable Cement-Based Materials</i> , 2013, 2, 186-203.	1.7	51
39	Leaching of calcium sulfoaluminate cement pastes by water at regulated pH and temperature: Experimental investigation and modeling. <i>Cement and Concrete Research</i> , 2013, 53, 211-220.	4.6	44
40	Beneficial use of a cell coupling rheometry, conductimetry, and calorimetry to investigate the early age hydration of calcium sulfoaluminate cement. <i>Rheologica Acta</i> , 2013, 52, 177-187.	1.1	19
41	Investigation of the hydration and bioactivity of radiopacified tricalcium silicate cement, Biodentine and MTA Angelus. <i>Dental Materials</i> , 2013, 29, 580-593.	1.6	323
42	Crystal structures of Boro-AFm and sBoro-AFt phases. <i>Cement and Concrete Research</i> , 2012, 42, 1362-1370.	4.6	34
43	Analysis of the surface of tricalcium silicate during the induction period by X-ray photoelectron spectroscopy. <i>Cement and Concrete Research</i> , 2012, 42, 1189-1198.	4.6	27
44	Innovative Leaching Tests of an Oilwell Cement Paste for CO ₂ Storage: Effect of the Pressure at 80°C. <i>Energy Procedia</i> , 2012, 23, 472-479.	1.8	6
45	Hydration behavior of iron doped calcium sulfoaluminate phase at room temperature. <i>MATEC Web of Conferences</i> , 2012, 2, 01005.	0.1	5
46	Effect of the clinker composition on the threshold limits for Cu, Sn or Zn. <i>Cement and Concrete Research</i> , 2012, 42, 1088-1093.	4.6	14
47	Influence of the intrinsic characteristics of mortars on biofouling by <i>Klebsormidium flaccidum</i> . <i>International Biodeterioration and Biodegradation</i> , 2012, 70, 31-39.	1.9	58
48	Comparison of a bioremediation process of PAHs in a PAH-contaminated soil at field and laboratory scales. <i>Environmental Pollution</i> , 2012, 165, 11-17.	3.7	113
49	Stabilization of ZnCl ₂ -containing wastes using calcium sulfoaluminate cement: Cement hydration, strength development and volume stability. <i>Journal of Hazardous Materials</i> , 2011, 194, 256-267.	6.5	21
50	Stabilization of ZnCl ₂ -containing wastes using calcium sulfoaluminate cement: Leaching behaviour of the solidified waste form, mechanisms of zinc retention. <i>Journal of Hazardous Materials</i> , 2011, 194, 268-276.	6.5	29
51	Comparison of solid and liquid-phase bioassays using ecoscores to assess contaminated soils. <i>Environmental Pollution</i> , 2011, 159, 2974-2981.	3.7	33
52	Incorporation of trace elements in Portland cement clinker: Thresholds limits for Cu, Ni, Sn or Zn. <i>Cement and Concrete Research</i> , 2011, 41, 1177-1184.	4.6	74
53	Managing trace elements in Portland cement – Part II: Comparison of two methods to incorporate Zn in a cement. <i>Cement and Concrete Composites</i> , 2011, 33, 629-636.	4.6	41
54	Influence of a thermal cycle at early age on the hydration of calcium sulphoaluminate cements with variable gypsum contents. <i>Cement and Concrete Research</i> , 2011, 41, 149-160.	4.6	135

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55	Thermodynamics and cement science. Cement and Concrete Research, 2011, 41, 679-695.	4.6	204
56	Mise au point d'un test accéléré de biodégradation de mortiers mettant en jeu une succession de bactéries sulfo-oxydantes. Matériaux Et Techniques, 2011, 99, 555-563.	0.3	2
57	Chemical and mineralogical characterizations of LD converter steel slags: A multi-analytical techniques approach. Materials Characterization, 2010, 61, 39-48.	1.9	140
58	Comparison of solid-phase bioassays and ecoscores to evaluate the toxicity of contaminated soils. Environmental Pollution, 2010, 158, 2640-2647.	3.7	35
59	Evolution of bacterial community during bioremediation of PAHs in a coal tar contaminated soil. Chemosphere, 2010, 81, 1263-1271.	4.2	85
60	Managing trace elements in Portland cement – Part I: Interactions between cement paste and heavy metals added during mixing as soluble salts. Cement and Concrete Composites, 2010, 32, 563-570.	4.6	114
61	Characterisation of iron inclusion during the formation of calcium sulfoaluminate phase. Cement and Concrete Research, 2010, 40, 1314-1319.	4.6	56
62	Thermodynamic modelling: state of knowledge and challenges. Advances in Cement Research, 2010, 22, 211-223.	0.7	23
63	Improved evidence for the existence of an intermediate phase during hydration of tricalcium silicate. Cement and Concrete Research, 2010, 40, 875-884.	4.6	100
64	pH variations during growth of Acidithiobacillus thiooxidans in buffered media designed for an assay to evaluate concrete biodeterioration. International Biodeterioration and Biodegradation, 2009, 63, 880-883.	1.9	23
65	Hydration of calcium sulfoaluminate cement by a ZnCl ₂ solution: Investigation at early age. Cement and Concrete Research, 2009, 39, 1180-1187.	4.6	45
66	Effect of curing conditions on oilwell cement paste behaviour during leaching: Experimental and modelling approaches. Comptes Rendus Chimie, 2009, 12, 511-520.	0.2	18
67	Impact of unrestrained Delayed Ettringite Formation-induced expansion on concrete mechanical properties. Cement and Concrete Research, 2008, 38, 1343-1348.	4.6	48
68	Interactions between municipal solid waste incinerator bottom ash and bacteria (Pseudomonas) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	3.9	33
69	Leaching of lead metallurgical slags and pollutant mobility far from equilibrium conditions. Applied Geochemistry, 2008, 23, 3699-3711.	1.4	38
70	Effect of Pb-rich and Fe-rich entities during alteration of a partially vitrified metallurgical waste. Journal of Hazardous Materials, 2007, 149, 418-431.	6.5	30
71	Effect of curing conditions and concrete mix design on the expansion generated by delayed ettringite formation. Materials and Structures/Matériaux Et Constructions, 2007, 40, 567-578.	1.3	44
72	Methodology of Management of Dredging Operations II. Applications. Environmental Technology (United Kingdom), 2006, 27, 431-446.	1.2	6

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73	Water chemical potential: A key parameter to determine the thermodynamic stability of some hydrated cement phases in concrete?. Cement and Concrete Research, 2006, 36, 783-790.	4.6	24
74	Methodology of Management of Dredging Operations I. Conceptual Developments. Environmental Technology (United Kingdom), 2006, 27, 411-429.	1.2	13
75	Weathering of metallurgical slag heaps: multi-experimental approach of the chemical behaviours of lead and zinc. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	10
76	Mise au point d'un milieu de culture pour l'Ã©tude de l'altÃ©ration de silicates en prÃ©sence de Pseudomonas aeruginosa. Comptes Rendus - Geoscience, 2005, 337, 1340-1347.	0.4	5
77	Determination by nanoindentation of elastic modulus and hardness of pure constituents of Portland cement clinker. Cement and Concrete Research, 2001, 31, 555-561.	4.6	394
78	Investigation of the CaO-Al ₂ O ₃ -SiO ₂ -H ₂ O system at 25 Â°C by thermodynamic calculations. Cement and Concrete Research, 1995, 25, 22-28.	4.6	84
79	Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaCO ₃ -H ₂ O closed system at 25Â°C and the influence of Na ₂ O. Cement and Concrete Research, 1994, 24, 563-572.	4.6	89
80	Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaSO ₄ -H ₂ O system at 25Â°C and the influence of Na ₂ O. Cement and Concrete Research, 1993, 23, 221-238.	4.6	191
81	Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaSO ₄ -K ₂ O-H ₂ O system at 25Â°C. Cement and Concrete Research, 1993, 23, 1195-1204.	4.6	40
82	Sulphate attack on concrete: limits of the AFt stability domain. Cement and Concrete Research, 1992, 22, 229-234.	4.6	27
83	Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaSO ₄ -H ₂ O system at 50Â°C and 85Â°C. Cement and Concrete Research, 1992, 22, 1179-1191.	4.6	136
84	Kinetics of Tricalcium Silicate Hydration in Diluted Suspensions by Microcalorimetric Measurements. Journal of the American Ceramic Society, 1990, 73, 3319-3322.	1.9	82