

Denis Damidot

List of Publications by Year in descending order

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85
papers

4,739
citations

87888

38
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98798

67
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85
all docs

85
docs citations

85
times ranked

3869
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. | 2.9 | 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. | 11.0 | 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. | 7.2 | 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. | 3.1 | 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. | 2.5 | 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. | 0.9 | 0 |
| 7 | New insights into tricalcium silicate hydration in paste. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2965-2976. | 3.8 | 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. | 5.3 | 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. | 3.9 | 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. | 2.1 | 17 |
| 11 | Formulation of mortars based on thermally treated sediments. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 592-603. | 3.0 | 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. | 5.3 | 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. | 1.1 | 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. | 10.7 | 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. | 3.9 | 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. | 11.0 | 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. | 3.8 | 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. | 11.0 | 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. | 7.2 | 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. | 7.2 | 31 |
| 21 | Development of novel tricalcium silicate-based endodontic cements with sintered radiopacifier phase. <i>Clinical Oral Investigations</i> , 2016, 20, 967-982. | 3.0 | 14 |
| 22 | Valorisation of sediments in self-consolidating concrete: Mix-design and microstructure. <i>Construction and Building Materials</i> , 2015, 81, 1-10. | 7.2 | 48 |
| 23 | Dissolution rates during the early hydration of tricalcium silicate. <i>Cement and Concrete Research</i> , 2015, 72, 108-116. | 11.0 | 46 |
| 24 | Characterization of un-hydrated and hydrated BioAggregate [®] and MTA Angelus [®] . <i>Clinical Oral Investigations</i> , 2015, 19, 689-698. | 3.0 | 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. | 11.0 | 74 |
| 26 | Influence of fine recycled concrete aggregates on the properties of mortars. <i>Construction and Building Materials</i> , 2015, 81, 179-186. | 7.2 | 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. | 3.1 | 99 |
| 28 | Biocicatrisation : application à la réparation de mortiers à base de ciment. <i>Materiaux Et Techniques</i> , 2015, 103, 207. | 0.9 | 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. | 3.9 | 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. | 3.1 | 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. | 11.0 | 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. | 11.0 | 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. | 3.0 | 75 |
| 34 | Traitement de mortiers fissurés par biocicatrisation : vers une évaluation quantitative de l'efficacité bactérienne. <i>Materiaux Et Techniques</i> , 2014, 102, 105. | 0.9 | 1 |
| 35 | The setting characteristics of <sc>MTA</sc> Plus in different environmental conditions. <i>International Endodontic Journal</i> , 2013, 46, 831-840. | 5.0 | 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. | 3.9 | 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. | 11.0 | 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. | 3.1 | 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. | 11.0 | 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. | 2.4 | 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. | 3.5 | 323 |
| 42 | Crystal structures of Boro-AFm and sBoro-AFt phases. <i>Cement and Concrete Research</i> , 2012, 42, 1362-1370. | 11.0 | 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. | 11.0 | 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. | 0.2 | 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. | 11.0 | 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. | 3.9 | 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. | 7.5 | 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. | 12.4 | 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. | 12.4 | 29 |
| 51 | Comparison of solid and liquid-phase bioassays using ecoscores to assess contaminated soils. <i>Environmental Pollution</i> , 2011, 159, 2974-2981. | 7.5 | 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. | 11.0 | 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. | 10.7 | 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. | 11.0 | 135 |

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|----|---|------|-----------|
| 55 | Thermodynamics and cement science. Cement and Concrete Research, 2011, 41, 679-695. | 11.0 | 204 |
| 56 | Mise au point d'un test accéléré de biodégradation de mortiers mettant en jeu une succession de bactéries sulfo-oxydantes. Materiaux Et Techniques, 2011, 99, 555-563. | 0.9 | 2 |
| 57 | Chemical and mineralogical characterizations of LD converter steel slags: A multi-analytical techniques approach. Materials Characterization, 2010, 61, 39-48. | 4.4 | 140 |
| 58 | Comparison of solid-phase bioassays and ecoscores to evaluate the toxicity of contaminated soils. Environmental Pollution, 2010, 158, 2640-2647. | 7.5 | 35 |
| 59 | Evolution of bacterial community during bioremediation of PAHs in a coal tar contaminated soil. Chemosphere, 2010, 81, 1263-1271. | 8.2 | 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. | 10.7 | 114 |
| 61 | Characterisation of iron inclusion during the formation of calcium sulfoaluminate phase. Cement and Concrete Research, 2010, 40, 1314-1319. | 11.0 | 56 |
| 62 | Thermodynamic modelling: state of knowledge and challenges. Advances in Cement Research, 2010, 22, 211-223. | 1.6 | 23 |
| 63 | Improved evidence for the existence of an intermediate phase during hydration of tricalcium silicate. Cement and Concrete Research, 2010, 40, 875-884. | 11.0 | 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. | 3.9 | 23 |
| 65 | Hydration of calcium sulfoaluminate cement by a ZnCl ₂ solution: Investigation at early age. Cement and Concrete Research, 2009, 39, 1180-1187. | 11.0 | 45 |
| 66 | Effect of curing conditions on oilwell cement paste behaviour during leaching: Experimental and modelling approaches. Comptes Rendus Chimie, 2009, 12, 511-520. | 0.5 | 18 |
| 67 | Impact of unrestrained Delayed Ettringite Formation-induced expansion on concrete mechanical properties. Cement and Concrete Research, 2008, 38, 1343-1348. | 11.0 | 48 |
| 68 | Interactions between municipal solid waste incinerator bottom ash and bacteria (Pseudomonas) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 | 8.0 | 33 |
| 69 | Leaching of lead metallurgical slags and pollutant mobility far from equilibrium conditions. Applied Geochemistry, 2008, 23, 3699-3711. | 3.0 | 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. | 12.4 | 30 |
| 71 | Effect of curing conditions and concrete mix design on the expansion generated by delayed ettringite formation. Materials and Structures/Materiaux Et Constructions, 2007, 40, 567-578. | 3.1 | 44 |
| 72 | Methodology of Management of Dredging Operations II. Applications. Environmental Technology (United Kingdom), 2006, 27, 431-446. | 2.2 | 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. | 11.0 | 24 |
| 74 | Methodology of Management of Dredging Operations I. Conceptual Developments. Environmental Technology (United Kingdom), 2006, 27, 411-429. | 2.2 | 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'Étude de l'altération de silicates en présence de Pseudomonas aeruginosa. Comptes Rendus - Geoscience, 2005, 337, 1340-1347. | 1.2 | 5 |
| 77 | Investigation of the CaO-Al ₂ O ₃ -SiO ₂ -CaSO ₄ -CaCO ₃ -H ₂ O system at 25°C by thermodynamic calculation. Advances in Cement Research, 2004, 16, 69-76. | 1.6 | 1 |
| 78 | Determination by nanoindentation of elastic modulus and hardness of pure constituents of Portland cement clinker. Cement and Concrete Research, 2001, 31, 555-561. | 11.0 | 394 |
| 79 | Investigation of the CaO-Al ₂ O ₃ -SiO ₂ -H ₂ O system at 25 °C by thermodynamic calculations. Cement and Concrete Research, 1995, 25, 22-28. | 11.0 | 84 |
| 80 | Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaCO ₃ -H ₂ O closed system at 25°C and the influence of Na ₂ O. Cement and Concrete Research, 1994, 24, 563-572. | 11.0 | 89 |
| 81 | Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaSO ₄ -H ₂ O system at 25°C and the influence of Na ₂ O. Cement and Concrete Research, 1993, 23, 221-238. | 11.0 | 191 |
| 82 | Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaSO ₄ -K ₂ O-H ₂ O system at 25°C. Cement and Concrete Research, 1993, 23, 1195-1204. | 11.0 | 40 |
| 83 | Sulphate attack on concrete: limits of the Aft stability domain. Cement and Concrete Research, 1992, 22, 229-234. | 11.0 | 27 |
| 84 | Thermodynamic investigation of the CaO-Al ₂ O ₃ -CaSO ₄ -H ₂ O system at 50°C and 85°C. Cement and Concrete Research, 1992, 22, 1179-1191. | 11.0 | 136 |
| 85 | Kinetics of Tricalcium Silicate Hydration in Diluted Suspensions by Microcalorimetric Measurements. Journal of the American Ceramic Society, 1990, 73, 3319-3322. | 3.8 | 82 |