Josee Duchesne

List of Publications by Year
in descending order

76 papers	3,229 citations	134610 34 h-index	175968 55 g-index
79 all docs	79 docs citations	79 times ranked	2591 citing authors

#	Article	IF	Citations
1	RILEM TC 258-AAA Round Robin Test: Alkali release from aggregates and petrographic analysis. Critical review of the test method AAR-8. Materiales De Construccion, 2022, 72, e279.	0.2	1
2	Alternative supplementary cementitious materials for sustainable concrete structures: a review on characterization and properties. Waste and Biomass Valorization, 2021, 12, 1219-1236.	1.8	37
3	Recommendation of RILEM TC 258-AAA: RILEM AAR-8: determination of potential releasable alkalis by aggregates in concrete. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	6
4	Valorization of Coal Fly Ash as a Stabilizer for the Development of Ni/CaO-Based Bifunctional Material. ACS Sustainable Chemistry and Engineering, 2020, 8, 3885-3895.	3.2	20
5	Alkali-silica reaction in alkali-activated combined slag and fly ash concretes: The tempering effect of fly ash on expansion and cracking. Construction and Building Materials, 2020, 251, 118968.	3.2	10
6	The Effect of Wood Ash as a Partial Cement Replacement Material for Making Wood-Cement Panels. Materials, 2019, 12, 2766.	1.3	24
7	Influence of added water and fly ash content on the characteristics, properties and early-age cracking sensitivity of alkali-activated slag/fly ash concrete cured at ambient temperature. Construction and Building Materials, 2018, 171, 929-941.	3.2	24
8	Evaluation of the concrete prisms test method for assessing the potential alkali-aggregate reactivity of recycled concrete aggregates. Cement and Concrete Research, 2018, 104, 25-36.	4.6	33
9	Reactivity tests for supplementary cementitious materials: RILEM TC 267-TRM phase 1. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	1.3	144
10	The application of a new oxidation mortar bar test to mixtures containing different cementing systems. Construction and Building Materials, 2018, 173, 775-785.	3.2	9
11	Atmospheric Carbon Mineralization in an Industrial-Scale Chrysotile Mining Waste Pile. Environmental Science & Technology, 2018, 52, 8050-8057.	4.6	13
12	Validation of the alkali contribution by aggregates to the concrete pore solution. Cement and Concrete Research, 2017, 98, 10-23.	4.6	21
13	Stress-relaxation of crystalline alkali-silica reaction products: Characterization by micro- and nanoindentation and simplified modeling. Construction and Building Materials, 2017, 148, 455-464.	3.2	15
14	Determination of the pH and the free alkali metal content in the pore solution of concrete: Review and experimental comparison. Cement and Concrete Research, 2017, 96, 13-26.	4.6	173
15	Effect of alkali release by aggregates on alkali-silica reaction. Construction and Building Materials, 2017, 157, 263-276.	3.2	20
16	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO2. Energy Procedia, 2017, 114, 6083-6086.	1.8	19
17	Development of a quick screening staining test for detecting the oxidation potential of iron sulfide-bearing aggregates for use in concrete. Cement and Concrete Research, 2016, 81, 49-58.	4.6	7
18	Quantitative assessment of the oxidation potential of sulfide-bearing aggregates in concrete using an oxygen consumption test. Cement and Concrete Composites, 2016, 67, 93-100.	4.6	17

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19	Use of Damage Rating Index to Quantify Alkali-Silica Reaction Damage in Concrete: Fine versus Coarse Aggregate. ACI Materials Journal, 2016, 113, .	0.3	15
20	Evaluation Protocol for Concrete Aggregates Containing Iron Sulfide Minerals. ACI Materials Journal, 2016, 113, .	0.3	4
21	Physical characterization methods for supplementary cementitious materials. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3675-3686.	1.3	40
22	A new accelerated mortar bar test to assess the potential deleterious effect of sulfide-bearing aggregate in concrete. Cement and Concrete Research, 2015, 73, 96-110.	4.6	25
23	Determination of particle size, surface area, and shape of supplementary cementitious materials by different techniques. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3687-3701.	1.3	95
24	Reliable quantification of AAR damage through assessment of the Damage Rating Index (DRI). Cement and Concrete Research, 2015, 67, 74-92.	4.6	95
25	Resistance of blended cement pastes subjected to organic acids: Quantification of anhydrous and hydrated phases. Cement and Concrete Composites, 2014, 45, 89-101.	4.6	21
26	Leaching of Cementitious Materials by Pure Water and Strong Acids (HCl and HNO3). RILEM State-of-the-Art Reports, 2013, , 91-112.	0.3	18
27	Attack of Cementitious Materials by Organic Acids in Agricultural and Agrofood Effluents. RILEM State-of-the-Art Reports, 2013, , 131-173.	0.3	12
28	CO2-depleted warm air venting from chrysotile milling waste (Thetford Mines, Canada): Evidence for in-situ carbon capture from the atmosphere. Geology, 2012, 40, 275-278.	2.0	59
29	Supplementary Cementitious Materials for Concrete: Characterization Needs. Materials Research Society Symposia Proceedings, 2012, 1488, 8.	0.1	39
30	Mineralogical and chemical assessment of concrete damaged by the oxidation of sulfide-bearing aggregates: Importance of thaumasite formation on reaction mechanisms. Cement and Concrete Research, 2012, 42, 1336-1347.	4.6	48
31	The effect of SCMs and curing time on resistance of mortars subjected to organic acids. Cement and Concrete Research, 2012, 42, 205-214.	4.6	41
32	The effect of SCMs on the corrosion of rebar embedded in mortars subjected to an acetic acid attack. Cement and Concrete Research, 2012, 42, 467-475.	4.6	14
33	Carbon Sequestration Kinetic and Storage Capacity of Ultramafic Mining Waste. Environmental Science & Technology, 2011, 45, 9413-9420.	4.6	97
34	Microstructure Study of Early In Situ Reaction of Fly Ash Geopolymer Observed by Environmental Scanning Electron Microscopy (ESEM). Waste and Biomass Valorization, 2010, 1, 367-377.	1.8	34
35	Processing of electron microprobe data from the analysis of altered cementitious materials. Cement and Concrete Research, 2009, 39, 929-935.	4.6	25
36	Long-term neutralisation potential of red mud bauxite with brine amendment for the neutralisation of acidic mine tailings. Applied Geochemistry, 2007, 22, 2326-2333.	1.4	38

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37	Investigation of stabilization/solidification for treatment of electric arc furnace dust: Dynamic leaching of monolithic specimens. Cement and Concrete Research, 2007, 37, 1639-1646.	4.6	18
38	Degradation of cement pastes by organic acids. Materials and Structures/Materiaux Et Constructions, 2007, 40, 341-354.	1.3	63
39	Using red mud bauxite for the neutralization of acid mine tailings: a column leaching test. Canadian Geotechnical Journal, 2006, 43, 1167-1179.	1.4	30
40	Stabilization of electric arc furnace dust by the use of cementitious materials: Ionic competition and long-term leachability. Cement and Concrete Research, 2006, 36, 1628-1634.	4.6	17
41	Characterization and leachability of electric arc furnace dust made from remelting of stainless steel. Journal of Hazardous Materials, 2006, 135, 156-164.	6.5	58
42	Remediation of electric arc furnace dust leachate by the use of cementitious materials: A column-leaching test. Diqiu Huaxue, 2006, 25, 99-99.	0.5	1
43	LEACHING OF CEMENT PASTES EXPOSED TO THE ACTION OF MANURE ORGANIC ACIDS: COMPARISION OF THE RELATIVE AGGRESSIVENESS OF THE DIFFERENT ACIDS. , 2005, , 601-610.		1
44	Accelerated tests of hardened cement pastes alteration by organic acids: analysis of the pH effect. Cement and Concrete Research, 2005, 35, 155-166.	4.6	101
45	Immobilization of chromium (VI) evaluated by binding isotherms for ground granulated blast furnace slag and ordinary Portland cement. Cement and Concrete Research, 2005, 35, 2322-2332.	4.6	52
46	Attack of cement pastes exposed to organic acids in manure. Cement and Concrete Composites, 2005, 27, 898-909.	4.6	88
47	Column Leaching Test to Evaluate the Use of Alkaline Industrial Wastes to Neutralize Acid Mine Tailings. Journal of Environmental Engineering, ASCE, 2005, 131, 1221-1229.	0.7	21
48	Effectiveness of Covers and Liners Made of Red Mud Bauxite and/or Cement Kiln Dust for Limiting Acid Mine Drainage. Journal of Environmental Engineering, ASCE, 2005, 131, 1230-1235.	0.7	20
49	Attaques chimique et biologique des effluents agricoles et agroalimentaires sur les matÃ©riaux cimentaires. Materiaux Et Techniques, 2005, 93, s.111-s.121.	0.3	13
50	A reply to the discussion by Mingshu Tang of the paper â€œLaboratory assessment of alkali contribution by aggregates to concrete and application to concrete structures affected by alkaliâ€“silica reactivityâ€• Cement and Concrete Research, 2004, 34, 903-904.	4.6	5
51	Evaluation of the degree of Cr ions immobilization by different binders. Cement and Concrete Research, 2004, 34, 1173-1177.	4.6	34
52	Cement pastes alteration by liquid manure organic acids: chemical and mineralogical characterization. Cement and Concrete Research, 2004, 34, 1823-1835.	4.6	73
53	Laboratory and field investigations of the influence of sodium chloride on alkaliâ€“silica reactivity. Cement and Concrete Research, 2003, 33, 77-84.	4.6	26
54	Effect of the cement chemistry and the sample size on ASR expansion of concrete exposed to salt. Cement and Concrete Research, 2003, 33, 629-634.	4.6	9

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55	Ephemeral acid mine drainage at the Montalbion silver mine, north Queensland. Australian Journal of Earth Sciences, 2003, 50, 797-809.	0.4	68
56	Neutralisation of acid mine drainage with alkaline industrial residues: laboratory investigation using batch-leaching tests. Applied Geochemistry, 2003, 18, 1197-1213.	1.4	122
57	Ã‰tablissement d'une mÃ©thode de caractÃ©risation minÃ©ralogique dÃ©crivant les sols contaminÃ©s par le plomb. Canadian Geotechnical Journal, 2003, 40, 731-741.	1.4	5
58	CAPACITY OF CHROME IONS FIXATION BY BLAST FURNACE SLAG. , 2003, , 335-344.		0
59	Influence of the nature of organic compounds on fine soil stabilization with cement. Canadian Geotechnical Journal, 2002, 39, 535-546.	1.4	226
60	A simple and fast screening test to detect soils polluted by lead. Environmental Pollution, 2002, 118, 285-296.	3.7	41
61	Laboratory assessment of alkali contribution by aggregates to concrete and application to concrete structures affected by alkaliâ€“silica reactivity. Cement and Concrete Research, 2002, 32, 1215-1227.	4.6	104
62	Title is missing!. Water, Air, and Soil Pollution, 2002, 135, 105-130.	1.1	40
63	Prediction of Metal Removal Efficiency from Contaminated Soils by Physical Methods. Journal of Environmental Engineering, ASCE, 2001, 127, 348-358.	0.7	47
64	Long-term effectiveness of supplementary cementing materials against alkaliâ€“silica reaction. Cement and Concrete Research, 2001, 31, 1057-1063.	4.6	83
65	Le mÃ»rissement Ã l'eau de chaux des Ã©chantillons de bÃ©ton en laboratoire est-il adaptÃ© au cas des bÃ©tons contenant des cendres volantes?. Canadian Journal of Civil Engineering, 2000, 27, 1073-1081.	0.7	0
66	Lime treatment of fly ash: characterization of leachate composition and solid/water reactions. Waste Management, 1999, 19, 221-231.	3.7	41
67	Determining controls on element concentrations in cement kiln dust leachate. Waste Management, 1998, 18, 339-350.	3.7	28
68	Measurement and prediction of portlandite solubility in alkali solutions. Cement and Concrete Research, 1995, 25, 1043-1053.	4.6	96
69	Effect of supplementary cementing materials on the composition of cement hydration products. Advanced Cement Based Materials, 1995, 2, 43-52.	0.4	65
70	Why the Accelerated Mortar Bar Method ASTM C 1260 is Reliable for Evaluating the Effectiveness of Supplementary Cementing Materials in Suppressing Expansion Due to Alkali-Silica Reactivity. Cement, Concrete and Aggregates, 1995, 17, 26-34.	0.1	38
71	The effectiveness of supplementary cementing materials in suppressing expansion due to ASR: Another look at the reaction mechanisms part 1: Concrete expansion and portlandite depletion. Cement and Concrete Research, 1994, 24, 73-82.	4.6	60
72	Evaluation of the validity of the pore solution expression method from hardened cement pastes and mortars. Cement and Concrete Research, 1994, 24, 456-462.	4.6	58

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73	A reply to a discussion by S. Chatterji of the paper â€œThe effectiveness of supplementary cementing materials on suppressing expansion due to ASR. part 1. Concrete expansion and portland depletionâ€• Cement and Concrete Research, 1994, 24, 1574-1576.	4.6	0
74	The effectiveness of supplementary cementing materials in suppressing expansion due to ASR: Another look at the reaction mechanisms part 2: Pore solution chemistry. Cement and Concrete Research, 1994, 24, 221-230.	4.6	126
75	A reply to a discussion by S. Chatterji of the paper â€œThe effectiveness of supplementary cementing materials in suppresssing expansion due to asr. part 2. pore solution chemistryâ€• Cement and Concrete Research, 1994, 24, 1579-1581.	4.6	2
76	Does silica fume merely postpone expansion due to alkali-aggregate reactivity?. Construction and Building Materials, 1993, 7, 137-143.	3.2	25