Alain Sellier

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers2,087
citations26
h-index42
g-index109
ext. papers2,375
ext. citations5
avg, IF5.02
L-index

#	Paper	IF	Citations
103	Relevance of Behavior Laws of Homogenized Reinforced Concrete in the Context of Finite Elements of Different Sizes. <i>RILEM Bookseries</i> , 2023 , 335-344	0.5	
102	Physical and mechanical properties of clayBand mixes to assess the performance of earth construction materials. <i>Journal of Building Engineering</i> , 2022 , 51, 104229	5.2	0
101	Creep of concrete during Alkali-Aggregates Reaction. <i>Construction and Building Materials</i> , 2022 , 336, 127355	6.7	
100	Modelling the mechanical behaviour of concrete subjected to Alkali-Silica Reaction (ASR) under multi-axial stress. <i>Cement and Concrete Research</i> , 2022 , 158, 106823	10.3	0
99	Accelerated Expansion Test: France, LMDC-EDF. RILEM State-of-the-Art Reports, 2021, 215-227	1.3	
98	Benchmark Problems for AAR FEA Code Validation. RILEM State-of-the-Art Reports, 2021, 381-410	1.3	
97	Benchmark Study Results: EdF/LMDC. RILEM State-of-the-Art Reports, 2021 , 411-425	1.3	
96	Accelerated Expansion Test Sample Report: Toulouse. RILEM State-of-the-Art Reports, 2021, 357-365	1.3	
95	Evaluation of structures affected by Alkali-Silica reaction (ASR) using homogenized modelling of reinforced concrete. <i>Engineering Structures</i> , 2021 , 246, 112845	4.7	2
94	On the origins of transient thermal deformation of concrete. <i>Cement and Concrete Composites</i> , 2020 , 107, 103508	8.6	3
93	Risk due to creep of prestressed concrete at moderate temperature. <i>MATEC Web of Conferences</i> , 2019 , 281, 01007	0.3	
92	A homogenized formulation to account for sliding of non-meshed reinforcements during the cracking of brittle matrix composites: Application to reinforced concrete. <i>Engineering Fracture Mechanics</i> , 2019 , 213, 182-196	4.2	2
91	Expansion modelling based on cracking induced by the formation of new phases in concrete. <i>International Journal of Solids and Structures</i> , 2019 , 160, 293-306	3.1	7
90	Flexural performance of reinforced concrete beams damaged by Alkali-Silica Reaction. <i>Cement and Concrete Composites</i> , 2019 , 104, 103412	8.6	18
89	Transient Thermal Deformation of high performance concrete in the range 20 °CIIO °C. <i>Cement and Concrete Research</i> , 2019 , 116, 19-26	10.3	8
88	Multicomponent modelling of cement paste dehydration under different heating rates. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019 , 52, 1	3.4	2
87	Influence of crack reclosure on concrete permeability. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 100, 65-77	3.7	2

(2015-2019)

86	Mechanical behaviour of granite: a compilation, analysis and correlation of data from around the world. <i>European Journal of Environmental and Civil Engineering</i> , 2019 , 23, 193-211	1.5	7
85	Chemical modelling of Delayed Ettringite Formation for assessment of affected concrete structures. <i>Cement and Concrete Research</i> , 2018 , 108, 72-86	10.3	23
84	Incremental modeling of relaxation of prestressing wires under variable loading and temperature. <i>Construction and Building Materials</i> , 2018 , 163, 337-342	6.7	4
83	Effects of stress on concrete expansion due to delayed ettringite formation. <i>Construction and Building Materials</i> , 2018 , 183, 626-641	6.7	20
82	Impact of stresses and restraints on ASR expansion. Construction and Building Materials, 2017, 140, 58-7	74 6.7	39
81	Simplified approach to model steel rebar-concrete interface in reinforced concrete. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 1291-1298	1.9	2
80	Restrained shrinkage of massive reinforced concrete structures: results of the project CEOS.fr. <i>European Journal of Environmental and Civil Engineering</i> , 2016 , 20, 785-808	1.5	4
79	Transient Thermal Creep at Moderate Temperature. Key Engineering Materials, 2016, 711, 885-891	0.4	1
78	Requirements for the Modeling of Medium-Term Behavior of Nuclear Containment Concrete for a lloss of Coolant Accidentl Analysis. <i>Key Engineering Materials</i> , 2016 , 711, 916-923	0.4	1
77	Material and Geometric Heterogeneity Consideration for Cracking Risk Prediction of Young Age Behavior of Experimental Massive Reinforced Concrete Structure. <i>Key Engineering Materials</i> , 2016 , 711, 900-907	0.4	
76	Multi-scale analysis of alkaliBilica reaction (ASR): Impact of alkali leaching on scale effects affecting expansion tests. <i>Cement and Concrete Research</i> , 2016 , 81, 122-133	10.3	42
75	Concrete creep modelling for structural applications: non-linearity, multi-axiality, hydration, temperature and drying effects. <i>Cement and Concrete Research</i> , 2016 , 79, 301-315	10.3	66
74	Modelling of chemo-mechanical behaviour of low pH concretes. <i>Cement and Concrete Research</i> , 2016 , 81, 70-80	10.3	6
73	Effects of water and temperature variations on deformation of limestone aggregates, cement paste, mortar and High Performance Concrete (HPC). <i>Cement and Concrete Composites</i> , 2016 , 71, 131-1	4 ^{8.6}	9
72	Modelling of change in permeability induced by dilatancy for brittle geomaterials. <i>Construction and Building Materials</i> , 2016 , 125, 613-624	6.7	8
71	2016,		10
70	Drying creep in cyclic humidity conditions. <i>Cement and Concrete Research</i> , 2015 , 76, 91-97	10.3	23
69	Mechanical characterization of limestone from sound velocity measurement. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 79, 149-156	6	23

68	Accelerated carbonation tests for the probabilistic prediction of the durability of concrete structures. <i>Construction and Building Materials</i> , 2014 , 66, 597-605	6.7	27
67	Comparative study of a chemoThechanical modeling for alkali silica reaction (ASR) with experimental evidences. <i>Construction and Building Materials</i> , 2014 , 72, 301-315	6.7	22
66	Weakest link and localisation WL2: a method to conciliate probabilistic and energetic scale effects in numerical models. <i>European Journal of Environmental and Civil Engineering</i> , 2014 , 1-15	1.5	5
65	Application of thermo-hydro-chemo-mechanical model for early age behaviour of concrete to experimental massive reinforced structures with strainflestraining system. <i>European Journal of Environmental and Civil Engineering</i> , 2014 , 18, 814-827	1.5	9
64	Structural analysis of a multi-span railway masonry bridge combining in situ observations, laboratory tests and damage modelling. <i>Engineering Structures</i> , 2013 , 56, 837-849	4.7	33
63	Orthotropic damage coupled with localized crack reclosure processing. <i>Engineering Fracture Mechanics</i> , 2013 , 97, 168-185	4.2	13
62	Sealing process induced by carbonation of localized cracks in cementitious materials. <i>Cement and Concrete Composites</i> , 2013 , 37, 37-46	8.6	16
61	Orthotropic damage coupled with localized crack reclosure processing. Part I: Constitutive laws. <i>Engineering Fracture Mechanics</i> , 2013 , 97, 148-167	4.2	31
60	Bond stress-slip behaviour of steel reinforcing bar embedded in hybrid fiber-reinforced concrete. <i>KSCE Journal of Civil Engineering</i> , 2013 , 17, 1700-1707	1.9	23
59	Prediction of relative permeabilities and water vapor diffusion reduction factor for cement-based materials. <i>Cement and Concrete Research</i> , 2013 , 48, 53-63	10.3	23
58	A three-step method for the recovery of aggregates from concrete. <i>Construction and Building Materials</i> , 2013 , 45, 262-269	6.7	12
57	AlkaliBilica reaction (ASR) expansion: Pessimum effect versus scale effect. <i>Cement and Concrete Research</i> , 2013 , 44, 25-33	10.3	38
56	Metallic fiber-reinforced concrete behaviour: Experiments and constitutive law for finite element modeling. <i>Engineering Fracture Mechanics</i> , 2013 , 103, 124-131	4.2	15
55	Experimental investigation of the variability of concrete durability properties. <i>Cement and Concrete Research</i> , 2013 , 45, 21-36	10.3	63
54	A comparison of methods for chemical assessment of reactive silica in concrete aggregates by selective dissolution. <i>Cement and Concrete Composites</i> , 2013 , 37, 82-94	8.6	17
53	Analysis of interactions between damage and basic creep of HPC and HPFRC heated between 20 and 80 °C. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013 , 46, 13-23	3.4	15
52	Numerical analysis of frost effects in porous media. Benefits and limits of the finite element poroelasticity formulation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012 , 36, 438-458	4	13
51	Hydration of slag-blended cements. <i>Cement and Concrete Composites</i> , 2012 , 34, 1009-1018	8.6	105

(2010-2012)

50	Simplified models for the engineering of concrete formulations in a marine environment through a probabilistic method. <i>European Journal of Environmental and Civil Engineering</i> , 2012 , 16, 362-374	1.5	7
49	Probabilistic approach for durable design of concrete cover: application to carbonation. <i>European Journal of Environmental and Civil Engineering</i> , 2012 , 16, 264-272	1.5	5
48	Influence of building process on stiffness: numerical analysis of a masonry vault including mortar joint shrinkage and crack re-closure effect. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012 , 45, 881-898	3.4	8
47	Development and validation of a numerical model to predict the penetration of a glycerophosphate-based corrosion inhibitor through concrete. <i>Construction and Building Materials</i> , 2012 , 37, 541-547	6.7	1
46	Swellings due to alkali-silica reaction and delayed ettringite formation: Characterisation of expansion isotropy and effect of moisture conditions. <i>Cement and Concrete Composites</i> , 2012 , 34, 349-3	86 56	17
45	Effects of restraint on expansion due to delayed ettringite formation. <i>Cement and Concrete Research</i> , 2012 , 42, 1024-1031	10.3	31
44	Effect of a temperature change from 20 to 50°C on the basic creep of HPC and HPFRC. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011 , 44, 1629-1639	3.4	29
43	Optimising an expansion test for the assessment of alkali-silica reaction in concrete structures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011 , 44, 1641-1653	3.4	8
42	Finite element modelling of hardening concrete: application to the prediction of early age cracking for massive reinforced structures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011 , 44, 1821-1	83 1 5	16
41	Damage model for concrete reinforced with sliding metallic fibers. <i>International Journal of Mechanics and Materials in Design</i> , 2011 , 7, 83-97	2.5	3
40	Toward a better comprehension and modeling of hysteresis cycles in the water sorption desorption process for cement based materials. <i>Cement and Concrete Research</i> , 2011 , 41, 817-8	27 .3	53
39	Behavior of HPC nuclear waste disposal structures in leaching environment. <i>Nuclear Engineering and Design</i> , 2011 , 241, 402-414	1.8	19
38	Damage Modeling of Metallic Fiber-Reinforced Concrete. <i>Procedia Engineering</i> , 2011 , 10, 1670-1678		5
37	Experimental and Numerical Analysis of Behaviour of Old Brick Masonries. <i>Advanced Materials Research</i> , 2010 , 133-134, 307-312	0.5	5
36	A review of continuum damage modelling for dam analysis. <i>European Journal of Environmental and Civil Engineering</i> , 2010 , 14, 805-822	1.5	4
35	The projection gradient algorithm with error control for structural reliability. <i>Engineering Structures</i> , 2010 , 32, 3725-3733	4.7	9
34	A study on the reinforced fibrous concrete elements subjected to uniaxial tensile loading. <i>KSCE Journal of Civil Engineering</i> , 2010 , 14, 547-556	1.9	16
33	Effects of aggregate size and alkali content on ASR expansion. <i>Cement and Concrete Research</i> , 2010 , 40, 508-516	10.3	64

32	Concrete modelling for expertise of structures affected by alkali aggregate reaction. <i>Cement and Concrete Research</i> , 2010 , 40, 502-507	10.3	34
31	Dependency of CBH carbonation rate on CO2 pressure to explain transition from accelerated tests to natural carbonation. <i>Cement and Concrete Research</i> , 2010 , 40, 1582-1589	10.3	114
30	Approche performantielle probabilisè pour la durabilit des btons d'ouvrages en environnement marin. European Journal of Environmental and Civil Engineering, 2009, 13, 9-19	1.5	
29	STUDY ON THE FLEXURAL BEHAVIOUR OF REINFORCED FIBROUS CONCRETE BEAMS 2009 , 11-22		1
28	Adaptive response surface method based on a double weighted regression technique. <i>Probabilistic Engineering Mechanics</i> , 2009 , 24, 135-143	2.6	76
27	Probabilistic approach for durability design of reinforced concrete in marine environment. <i>Cement and Concrete Research</i> , 2009 , 39, 466-471	10.3	39
26	ChemoEhechanical modeling for prediction of alkali silica reaction (ASR) expansion. <i>Cement and Concrete Research</i> , 2009 , 39, 490-500	10.3	98
25	Mechanical behaviour of ancient masonry. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009 , 42, 123-133	3.4	16
24	Toward a probabilistic design of reinforced concrete durability: application to a marine environment. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009 , 42, 1379-1391	3.4	18
23	Vers une modlisation simple et unifiè du fluage propre, du retrait et du fluage en dessiccation du blon. <i>European Journal of Environmental and Civil Engineering</i> , 2009 , 13, 1161-1182	1.5	18
22	Approche performantielle probabilise pour la durabilit des blons d'ouvrages en environnement marin. <i>Revue Europenne De Gaie Civil</i> , 2009 , 13, 9-19		2
21	Mthode du gradient projet avec contrle derreur. European Journal of Computational Mechanics, 2008 , 17, 1039-1056	0.5	1
20	Coupled effects of aggregate size and alkali content on ASR expansion. <i>Cement and Concrete Research</i> , 2008 , 38, 350-359	10.3	47
19	Steel-fibre-reinforcement and hydration coupled effects on concrete tensile behaviour. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 5207-5216	4.2	11
18	Multiphasic finite element modeling of concrete hydration. <i>Cement and Concrete Research</i> , 2007 , 37, 131-138	10.3	45
17	Chemical modelling of Alkali Silica reaction: Influence of the reactive aggregate size distribution. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007 , 40, 229-239	3.4	82
16	Requalification des ouvrages anciens. Revue Europlanne De Glaie Civil, 2007, 11, 1199-1218		
15	Une mthode de surface de rponse adaptative en fiabilit des structures base sur la rgression pondre. European Journal of Computational Mechanics, 2007, 16, 53-77	0.5	1

LIST OF PUBLICATIONS

14	Influence of Water on Alkali-Silica Reaction: Experimental Study and Numerical Simulations. <i>Journal of Materials in Civil Engineering</i> , 2006 , 18, 588-596	3	50
13	Sensibilit aux paramtres alàtoires d'un modte pour le calcul des structures en bton atteintes par la ràction alcali-silice. <i>Revue Europanne De Ghie Civil</i> , 2006 , 10, 549-563		
12	Concrete mechanical behaviour and calcium leaching weak coupling. <i>Revue Europanne De Gaie Civil</i> , 2006 , 10, 1147-1175		3
11	Probabilistic approach to corrosion risk due to carbonation via an adaptive response surface method. <i>Probabilistic Engineering Mechanics</i> , 2006 , 21, 207-216	2.6	42
10	Concrete mechanical behaviour and calcium leaching weak coupling. <i>Revue Europanne De Gaie Civil</i> , 2006 , 10, 1147-1175		3
9	Modlisation chimique de la ràction alcali-silice: prise en compte de l'influence de la distribution granulaire ràctive. <i>Revue Europanne De Gaie Civil</i> , 2004 , 8, 905-929		
8	Evaluation probabiliste du risque de corrosion par carbonatation. <i>Revue Europ</i> enne De Ghie Civil, 2004 , 8, 975-997		
7	Coupled moistureBarbon dioxideBalcium transfer model for carbonation of concrete. <i>Cement and Concrete Research</i> , 2004 , 34, 1859-1872	10.3	169
7		10.3 3·3	169 71
	and Concrete Research, 2004, 34, 1859-1872 Orthotropic modelling of alkali-aggregate reaction in concrete structures: numerical simulations.		
6	and Concrete Research, 2004, 34, 1859-1872 Orthotropic modelling of alkali-aggregate reaction in concrete structures: numerical simulations. Mechanics of Materials, 2003, 35, 817-830		
6 5	Orthotropic modelling of alkali-aggregate reaction in concrete structures: numerical simulations. Mechanics of Materials, 2003, 35, 817-830 Endommagement anisotrope du bton. Revue Europanne De Gaie Civil, 2003, 7, 607-620 Coupled damage tensors and weakest link theory for the description of crack induced anisotropy in	3.3	71
6 5 4	Orthotropic modelling of alkali-aggregate reaction in concrete structures: numerical simulations. <i>Mechanics of Materials</i> , 2003 , 35, 817-830 Endommagement anisotrope du blon. <i>Revue Europlanne De Glie Civil</i> , 2003 , 7, 607-620 Coupled damage tensors and weakest link theory for the description of crack induced anisotropy in concrete. <i>Engineering Fracture Mechanics</i> , 2002 , 69, 1925-1939 Modlisation des anisotropies mcaniques induites par la fissuration du blon. <i>Revue Europlanne</i>	3.3	71 26