

# Farid BENBOUDJEMA

## List of Publications by Year in descending order

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26  
papers

593  
citations

516710

16  
h-index

610901

24  
g-index

28  
all docs

28  
docs citations

28  
times ranked

549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying the mechanisms of concrete drying: An experimental-numerical approach. Construction and Building Materials, 2020, 230, 117001.	7.2	10
2	Dielectric properties of the pore solution in cement-based materials. Journal of Molecular Liquids, 2020, 302, 112548.	4.9	20
3	Hygro-mechanical modeling of restrained ring test: COST TU1404 benchmark. Construction and Building Materials, 2019, 229, 116543.	7.2	11
4	The pore solution of cement-based materials: structure and dynamics of water and ions from molecular simulations. Physical Chemistry Chemical Physics, 2019, 21, 11111-11121.	2.8	22
5	Thermal properties of cement-based materials: Multiscale estimations at early-age. Cement and Concrete Composites, 2018, 87, 205-219.	10.7	60
6	COST TU1404 benchmark on macroscopic modelling of concrete and concrete structures at early age: Proof-of-concept stage. Construction and Building Materials, 2018, 174, 173-189.	7.2	19
7	Nonlinear Mechanical Behavior Analysis of Flexible Lateritic Pavements of Senegal (West Africa) by FEM for M.-E. Pavement Design. Geotechnical and Geological Engineering, 2018, 36, 2939-2956.	1.7	3
8	Influential factors in volume change measurements for cementitious materials at early ages and in isothermal conditions. Cement and Concrete Composites, 2018, 85, 105-121.	10.7	8
9	Effective properties of n-coated composite spheres assemblage in an ageing linear viscoelastic framework. International Journal of Solids and Structures, 2017, 124, 1-13.	2.7	18
10	A viscoelastic Unitary Crack-Opening strain tensor for crack width assessment in fractured concrete structures. Mechanics of Time-Dependent Materials, 2017, 21, 223-243.	4.4	4
11	Early-Age Self-Healing of Cementitious Materials Containing Ground Granulated Blast-Furnace Slag under Water Curing. Journal of Advanced Concrete Technology, 2016, 14, 717-727.	1.8	25
12	Multiscale estimation of ageing viscoelastic properties of cement-based materials: A combined analytical and numerical approach to estimate the behaviour at early age. Cement and Concrete Research, 2016, 85, 137-155.	11.0	57
13	Effect of fibres on early age cracking of concrete tunnel lining. Part II: Numerical simulations. Tunnelling and Underground Space Technology, 2016, 59, 221-229.	6.2	21
14	Effect of fibres on early age cracking of concrete tunnel lining. Part I: Laboratory ring test. Tunnelling and Underground Space Technology, 2016, 59, 215-220.	6.2	30
15	Self-healing at early-age, a way to improve the chloride resistance of blast-furnace slag cementitious materials. Construction and Building Materials, 2016, 113, 1017-1028.	7.2	47
16	Modeling hydration kinetics based on boundary nucleation and space-filling growth in a fixed confined zone. Cement and Concrete Research, 2016, 83, 31-44.	11.0	30
17	Factors affecting the thermo-chemo-mechanical behaviour of massive concrete structures at early-age. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3055-3073.	3.1	15
18	Reinforcement-concrete bond behavior: Experimentation in drying conditions and meso-scale modeling. Engineering Structures, 2015, 101, 570-582.	5.3	40

#	ARTICLE	IF	CITATIONS
19	Evaluation of the contribution of boundary and initial conditions in the chemo-thermal analysis of a massive concrete structure. <i>Engineering Structures</i> , 2014, 80, 173-188.	5.3	21
20	Study of electrical resistivity: variability assessment on two concretes: protocol study in laboratory and assessment on site. <i>European Journal of Environmental and Civil Engineering</i> , 2012, 16, 298-310.	2.1	11
21	Modelling the influence of temperature on accelerated leaching in ammonium nitrate. <i>European Journal of Environmental and Civil Engineering</i> , 2012, 16, 322-335.	2.1	9
22	Influence of the spatial variability of leaching kinetics parameters on the lifespan of a concrete structure. <i>European Journal of Environmental and Civil Engineering</i> , 2012, 16, 606-624.	2.1	3
23	Effects of early-age thermal behaviour on damage risks in massive concrete structures. <i>European Journal of Environmental and Civil Engineering</i> , 2012, 16, 589-605.	2.1	51
24	Modeling of concrete nonlinear mechanical behavior at high temperatures with different damage-based approaches. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 1411-1429.	3.1	19
25	A viscoelastic approach for the assessment of the drying shrinkage behaviour of cementitious materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007, 40, 163-174.	3.1	25
26	Mechanical threshold of cementitious materials at early age. <i>Materials and Structures/Materiaux Et Constructions</i> , 2005, 38, 299-304.	3.1	13