

# Cyrille F Dunant

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

4,935  
citations

304368

22  
h-index

377514

34  
g-index

37  
all docs

37  
docs citations

37  
times ranked

8198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of temperature on expansion of concrete due to the alkali-silica reaction: A simplified numerical approach. <i>Materiales De Construccion</i> , 2022, 72, e282.	0.2	1
2	A new method to estimate the lifetime of long-life product categories. <i>Journal of Industrial Ecology</i> , 2021, 25, 321-332.	2.8	6
3	Good early stage design decisions can halve embodied CO2 and lower structural frames™ cost. <i>Structures</i> , 2021, 33, 343-354.	1.7	21
4	Microstructural simulation and measurement of elastic modulus evolution of hydrating cement pastes. <i>Cement and Concrete Research</i> , 2020, 130, 106007.	4.6	14
5	Impact of temperature on expansive behavior of concrete with a highly reactive andesite due to the alkali-silica reaction. <i>Cement and Concrete Research</i> , 2019, 125, 105888.	4.6	41
6	A marginal abatement cost curve for material efficiency accounting for uncertainty. <i>Resources, Conservation and Recycling</i> , 2019, 144, 39-47.	5.3	16
7	Testing the greenhouse gas emissions reduction potential of alternative strategies for the english housing stock. <i>Resources, Conservation and Recycling</i> , 2019, 144, 267-275.	5.3	28
8	How much cement can we do without? Lessons from cement material flows in the UK. <i>Resources, Conservation and Recycling</i> , 2019, 141, 441-454.	5.3	93
9	Options to make steel reuse profitable: An analysis of cost and risk distribution across the UK construction value chain. <i>Journal of Cleaner Production</i> , 2018, 183, 102-111.	4.6	52
10	Regularity and optimisation practice in steel structural frames in real design cases. <i>Resources, Conservation and Recycling</i> , 2018, 134, 294-302.	5.3	21
11	Microstructural effects in the simulation of creep of concrete. <i>Cement and Concrete Research</i> , 2018, 105, 44-53.	4.6	52
12	HPC simulations of alkali-silica reaction-induced damage: Influence of alkali-silica gel properties. <i>Cement and Concrete Research</i> , 2018, 109, 90-102.	4.6	14
13	Computing Creep-Damage Interactions in Irradiated Concrete. <i>Journal of Nanomechanics &amp; Micromechanics</i> , 2017, 7, .	1.4	27
14	Real and perceived barriers to steel reuse across the UK construction value chain. <i>Resources, Conservation and Recycling</i> , 2017, 126, 118-131.	5.3	46
15	A stable finite element method for computing combined plastic and damage behaviour. <i>Procedia Engineering</i> , 2017, 207, 2018-2023.	1.2	0
16	Molecular landscapes of human hematopoietic stem cells in health and leukemia. <i>Annals of the New York Academy of Sciences</i> , 2016, 1370, 5-14.	1.8	24
17	Physically based models to study the alkali-silica reaction. <i>Proceedings of Institution of Civil Engineers: Construction Materials</i> , 2016, 169, 136-144.	0.7	7
18	Distinct routes of lineage development reshape the human blood hierarchy across ontogeny. <i>Science</i> , 2016, 351, aab2116.	6.0	597

#	ARTICLE	IF	CITATIONS
19	Characterization of Fly Ashes by a Novel Method in the Scanning Electron Microscope. , 2016, , 55-64.		0
20	Algorithmically imposed thermodynamic compliance for material models in mechanical simulations using the AIM method. International Journal for Numerical Methods in Engineering, 2015, 104, 963-982.	1.5	8
21	Influence of visco-elasticity on the stress development induced by alkali-silica reaction. Cement and Concrete Research, 2015, 70, 1-8.	4.6	54
22	CDK6 Levels Regulate Quiescence Exit in Human Hematopoietic Stem Cells. Cell Stem Cell, 2015, 16, 302-313.	5.2	247
23	Alkali-silica reaction: Current understanding of the reaction mechanisms and the knowledge gaps. Cement and Concrete Research, 2015, 76, 130-146.	4.6	369
24	A new quantification method based on SEM-EDS to assess fly ash composition and study the reaction of its individual components in hydrating cement paste. Cement and Concrete Research, 2015, 73, 111-122.	4.6	195
25	Fly ash as an assemblage of model Ca-Mg-Na-aluminosilicate glasses. Cement and Concrete Research, 2015, 78, 263-272.	4.6	104
26	Alkali Silica Reaction Mitigating Properties of Ternary Blended Cement with Calcined Clay and Limestone. RILEM Bookseries, 2015, , 577-577.	0.2	3
27	Finite elements in space and time for the analysis of generalised visco-elastic materials. International Journal for Numerical Methods in Engineering, 2014, 97, 454-472.	1.5	18
28	Variable Clonal Repopulation Dynamics Influence Chemotherapy Response in Colorectal Cancer. Science, 2013, 339, 543-548.	6.0	691
29	A critical comparison of several numerical methods for computing effective properties of highly heterogeneous materials. Advances in Engineering Software, 2013, 58, 1-12.	1.8	47
30	Effects of uniaxial stress on alkali-silica reaction induced expansion of concrete. Cement and Concrete Research, 2012, 42, 567-576.	4.6	64
31	Effects of aggregate size on alkali-silica-reaction induced expansion. Cement and Concrete Research, 2012, 42, 745-751.	4.6	57
32	An Algorithm to compute damage from load in composites. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 180-193.	0.4	17
33	Micro-mechanical modelling of alkali-silica-reaction-induced degradation using the AMIE framework. Cement and Concrete Research, 2010, 40, 517-525.	4.6	122
34	Hematopoietic Stem Cells Reversibly Switch from Dormancy to Self-Renewal during Homeostasis and Repair. Cell, 2009, 138, 209.	13.5	2
35	Hematopoietic Stem Cells Reversibly Switch from Dormancy to Self-Renewal during Homeostasis and Repair. Cell, 2008, 135, 1118-1129.	13.5	1,627
36	Architecture tradeoffs of integrating a mesh generator to partition of unity enriched object-oriented finite element software. European Journal of Computational Mechanics, 2007, 16, 237-258.	0.6	29

#	ARTICLE	IF	CITATIONS
37	An extended finite element library. International Journal for Numerical Methods in Engineering, 2007, 71, 703-732.	1.5	221