

Jan Olek

List of Publications by Citations

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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.

46
papers

2,364
citations

28
h-index

46
g-index

46
ext. papers

2,808
ext. citations

6.5
avg, IF

5.53
L-index

#	Paper	IF	Citations
46	Mechanism of sulfate attack: A fresh look. <i>Cement and Concrete Research</i> , 2002 , 32, 915-921	10.3	237
45	Mechanism of sulfate attack: a fresh look. <i>Cement and Concrete Research</i> , 2003 , 33, 341-346	10.3	210
44	Influence of aggregate size, water cement ratio and age on the microstructure of the interfacial transition zone. <i>Cement and Concrete Research</i> , 2003 , 33, 1837-1849	10.3	208
43	Characterizing Enhanced Porosity Concrete using electrical impedance to predict acoustic and hydraulic performance. <i>Cement and Concrete Research</i> , 2006 , 36, 2074-2085	10.3	170
42	Effects of Sample Preparation and Interpretation of Thermogravimetric Curves on Calcium Hydroxide in Hydrated Pastes and Mortars. <i>Transportation Research Record</i> , 2012 , 2290, 10-18	1.7	129
41	Carbonation behavior of hydraulic and non-hydraulic calcium silicates: potential of utilizing low-lime calcium silicates in cement-based materials. <i>Journal of Materials Science</i> , 2016 , 51, 6173-6191	4.3	126
40	Rheological properties of asphalt binders modified with styrene-butadiene-styrene (SBS), ground tire rubber (GTR), or polyphosphoric acid (PPA). <i>Construction and Building Materials</i> , 2017 , 151, 464-478	6.7	123
39	Cements in the 21 Century: Challenges, Perspectives, and Opportunities. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2746-2773	3.8	104
38	Influence of lightweight aggregate on the microstructure and durability of mortar. <i>Cement and Concrete Research</i> , 2005 , 35, 1368-1376	10.3	101
37	Influence of chemical and physical characteristics of cement kiln dusts (CKDs) on their hydration behavior and potential suitability for soil stabilization. <i>Cement and Concrete Research</i> , 2008 , 38, 803-815	10.3	82
36	Acoustic performance and damping behavior of cellulose/cement composites. <i>Cement and Concrete Composites</i> , 2004 , 26, 359-370	8.6	63
35	Elucidating the accelerated carbonation products of calcium silicates using multi-technique approach. <i>Journal of CO2 Utilization</i> , 2018 , 23, 61-74	7.6	59
34	Mechanism of stabilization of Na-montmorillonite clay with cement kiln dust. <i>Cement and Concrete Research</i> , 2009 , 39, 580-589	10.3	59
33	An investigation into the influence of inter-aggregate spacing and the extent of the ITZ on properties of Portland cement concretes. <i>Cement and Concrete Research</i> , 2010 , 40, 1601-1608	10.3	58
32	Study of the Effectiveness of Cement Kiln Dusts in Stabilizing Na-Montmorillonite Clay. <i>Journal of Materials in Civil Engineering</i> , 2008 , 20, 137-146	3	52
31	Alkali-silica reaction: Kinetics of chemistry of pore solution and calcium hydroxide content in cementitious system. <i>Cement and Concrete Research</i> , 2015 , 71, 36-45	10.3	50
30	Stress-dependent behavior and rutting resistance of modified asphalt binders: An MSCR approach. <i>Construction and Building Materials</i> , 2017 , 157, 635-646	6.7	48

29	Additive Manufacturing and Performance of Architected Cement-Based Materials. <i>Advanced Materials</i> , 2018 , 30, e1802123	24	41
28	Multiscale characterization of carbonated wollastonite paste and application of homogenization schemes to predict its effective elastic modulus. <i>Cement and Concrete Composites</i> , 2016 , 72, 284-298	8.6	40
27	Microscopic features of non-hydraulic calcium silicate cement paste and mortar. <i>Cement and Concrete Research</i> , 2017 , 100, 361-372	10.3	40
26	High-Temperature Properties of Asphalt Binders: Comparison of Multiple Stress Creep Recovery and Performance Grading Systems. <i>Transportation Research Record</i> , 2016 , 2574, 131-143	1.7	38
25	Chemical Sequence and Kinetics of Alkali-Silica Reaction Part I. Experiments. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2195-2203	3.8	37
24	Carbonation activated binders from pure calcium silicates: Reaction kinetics and performance controlling factors. <i>Cement and Concrete Composites</i> , 2018 , 93, 85-98	8.6	35
23	Long-Term Monitoring of Noise and Frictional Properties of Three Pavements: Dense-Graded Asphalt, Stone Matrix Asphalt, and Porous Friction Course. <i>Transportation Research Record</i> , 2009 , 2127, 12-19	1.7	32
22	Studies on delayed ettringite formation in heat-cured mortars: II. Characteristics of cement that may be susceptible to DEF. <i>Cement and Concrete Research</i> , 2002 , 32, 1737-1742	10.3	31
21	Chemical Sequence and Kinetics of Alkali-Silica Reaction Part II. A Thermodynamic Model. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2204-2212	3.8	29
20	Studies on delayed ettringite formation in early-age, heat-cured mortars. <i>Cement and Concrete Research</i> , 2002 , 32, 1729-1736	10.3	29
19	The effects of lithium ions on chemical sequence of alkali-silica reaction. <i>Cement and Concrete Research</i> , 2016 , 79, 159-168	10.3	28
18	Physicochemical Behavior of Cement Kiln Dust-Treated Kaolinite Clay. <i>Transportation Research Record</i> , 2008 , 2059, 80-88	1.7	19
17	Phase evolution and strength development during carbonation of low-lime calcium silicate cement (CSC). <i>Construction and Building Materials</i> , 2019 , 210, 473-482	6.7	12
16	Analysis of the Multiple Stress Creep Recovery Asphalt Binder Test and Specifications for Use in Indiana		11
15	Pavement Concrete with Air-Cooled Blast Furnace Slag and Dolomite as Coarse Aggregates: Effects of Deicers and Freeze-Thaw Cycles. <i>Transportation Research Record</i> , 2015 , 2508, 55-64	1.7	10
14	Role of Potassium Acetate Deicer in Accelerating Alkali-Silica Reaction in Concrete Pavements: Relationship Between Laboratory and Field Studies. <i>Transportation Research Record</i> , 2011 , 2240, 70-79	1.7	9
13	Modified ASTM C 1293 Test Method to Investigate Potential of Potassium Acetate Deicer Solution to Cause Alkali-Silica Reaction. <i>Transportation Research Record</i> , 2007 , 2020, 50-60	1.7	9
12	Modeling of early age loss of lithium ions from pore solution of cementitious systems treated with lithium nitrate. <i>Cement and Concrete Research</i> , 2015 , 67, 204-214	10.3	6

11	Effect of Mixture Composition and Initial Curing Conditions on Scaling Resistance of Ternary (OPC/FA/SF) Concrete. <i>Journal of Materials in Civil Engineering</i> , 2008 , 20, 668-677	3	6
10	Carbonation Reaction Kinetics, CO ₂ Sequestration Capacity, and Microstructure of Hydraulic and Non-Hydraulic Cementitious Binders 2016 ,		6
9	Amino acids as performance-controlling additives in carbonation-activated cementitious materials. <i>Cement and Concrete Research</i> , 2021 , 147, 106501	10.3	6
8	The influence of air cooled blast furnace slag (ACBFS) aggregate on the concentration of sulfates in concrete pore solution. <i>Construction and Building Materials</i> , 2018 , 168, 394-403	6.7	4
7	Effects of High Temperature on Carbonated Calcium Silicate Cement (CSC) and Ordinary Portland Cement (OPC) Paste 2016 ,		3
6	Reclaimed Asphalt Pavement Limits to Meet Surface Frictional Requirements. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04015069	3	2
5	Influence of Curing Conditions on Strength Development and Strength Predictive Capability of Maturity Method: Laboratory and Field-Made Ternary Concretes. <i>Transportation Research Record</i> , 2008 , 2070, 49-58	1.7	2
4	Closure to Study of the Effectiveness of Cement Kiln Dusts in Stabilizing Na-Montmorillonite Clay by Sulapha Peethamparan and Jan Olek. <i>Journal of Materials in Civil Engineering</i> , 2009 , 21, 707-708	3	0
3	Full-Scale Laboratory Evaluation of the Effectiveness of Subgrade Soil Stabilization Practices for Portland Cement Concrete Pavements Patching Applications. <i>Transportation Research Record</i> , 2020 , 2674, 465-474	1.7	
2	Effects of Air-Cooled Blast Furnace Slag Aggregate on Pore Solution Chemistry of Cementitious Systems. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04019317	3	
1	Influence of Bridge Fires on the Properties of Concrete and Steel Components. <i>Transportation Research Record</i> , 036119812110363	1.7	