Dale P Bentz

List of Publications by Citations

157 papers	9,950 citations	62 h-index	95 g-index
160 ext. papers	11,175 ext. citations	6.2 avg, IF	6.71 L-index

#	Paper	IF	Citations
157	Three-Dimensional Computer Simulation of Portland Cement Hydration and Microstructure Development. *Journal of the American Ceramic Society*, **1997**, 80, 3-21	3.8	381
156	Water permeability and chloride ion diffusion in portland cement mortars: Relationship to sand content and critical pore diameter. *Cement and Concrete Research*, **1995**, 25, 790-802	10.3	298
155	Protected paste volume in concrete: Extension to internal curing using saturated lightweight fine aggregate. *Cement and Concrete Research*, **1999**, 29, 1863-1867	10.3	283
154	Percolation of phases in a three-dimensional cement paste microstructural model. *Cement and Concrete Research*, **1991**, 21, 325-344	10.3	263
153	Potential applications of phase change materials in concrete technology. *Cement and Concrete Composites*, **2007**, 29, 527-532	8.6	222
152	Percolation and pore structure in mortars and concrete. *Cement and Concrete Research*, **1994**, 24, 25-37	10.3	221
151	Effects of cement particle size distribution on performance properties of Portland cement-based materials. *Cement and Concrete Research*, **1999**, 29, 1663-1671	10.3	217
150	Mitigation strategies for autogenous shrinkage cracking. *Cement and Concrete Composites*, **2004**, 26, 677-685	8.6	198
149	Analytical formulas for interfacial transition zone properties. *Advanced Cement Based Materials*, **1997**, 6, 99-108		193
148	A review of early-age properties of cement-based materials. *Cement and Concrete Research*, **2008**, 38, 196-204	10.3	189
147	Volume change and cracking in internally cured mixtures made with saturated lightweight aggregate under sealed and unsealed conditions. *Cement and Concrete Composites*, **2009**, 31, 427-437	8.6	183
146	Shrinkage-reducing admixtures and early-age desiccation in cement pastes and mortars. *Cement and Concrete Research*, **2001**, 31, 1075-1085	10.3	181
145	Influence of particle size distributions on yield stress and viscosity of cement–fly ash pastes. *Cement and Concrete Research*, **2012**, 42, 404-409	10.3	160
144	Multiscale Analytical/Numerical Theory of the Diffusivity of Concrete. *Advanced Cement Based Materials*, **1998**, 8, 77-88		157
143	Influence of internal curing using lightweight aggregates on interfacial transition zone percolation and chloride ingress in mortars. *Cement and Concrete Composites*, **2009**, 31, 285-289	8.6	155
142	Influence of silica fume on diffusivity in cement-based materials: I. Experimental and computer modeling studies on cement pastes. *Cement and Concrete Research*, **2000**, 30, 953-962	10.3	151
141	Modelling drying shrinkage in reconstructed porous materials: application to porous Vycor glass. *Modelling and Simulation in Materials Science and Engineering*, **1998**, 6, 211-236	2	145

140	Modeling the influence of limestone filler on cement hydration using CEMHYD3D. *Cement and Concrete Composites*, **2006**, 28, 124-129	8.6	141
139	Fine limestone additions to regulate setting in high volume fly ash mixtures. *Cement and Concrete Composites*, **2012**, 34, 11-17	8.6	138
138	Effect of sample conditioning on the water absorption of concrete. *Cement and Concrete Composites*, **2011**, 33, 805-813	8.6	136
137	Estimation of the degree of hydration of blended cement pastes by a scanning electron microscope point-counting procedure. *Cement and Concrete Research*, **2004**, 34, 1787-1793	10.3	131
136	The effect of statistical fluctuation, finite size error, and digital resolution on the phase percolation and transport properties of the NIST cement hydration model. *Cement and Concrete Research*, **2001**, 31, 1501-1514	10.3	130
135	Transient plane source measurements of the thermal properties of hydrating cement pastes. *Materials and Structures/Materiaux Et Constructions*, **2007**, 40, 1073-1080	3.4	123
134	Influence of water-to-cement ratio on hydration kinetics: Simple models based on spatial considerations. *Cement and Concrete Research*, **2006**, 36, 238-244	10.3	121
133	Incorporation of phase change materials in cementitious systems via fine lightweight aggregate. *Construction and Building Materials*, **2012**, 35, 483-490	6.7	120
132	Evaluation of sustainable high-volume fly ash concretes. *Cement and Concrete Composites*, **2011**, 33, 39-45	8.6	119
131	Internal curing :		119
130	Water absorption in internally cured mortar made with water-filled lightweight aggregate. *Cement and Concrete Research*, **2009**, 39, 883-892	10.3	117
129	Multi-scale investigation of the performance of limestone in concrete. *Construction and Building Materials*, **2015**, 75, 1-10	6.7	110
128	Limestone and Silica Powder Replacements for Cement: Early-Age Performance. *Cement and Concrete Composites*, **2017**, 78, 43-56	8.6	109
127	Modelling of the microstructure and transport properties of concrete. *Construction and Building Materials*, **1996**, 10, 293-300	6.7	107
126	Digital simulation of the aggregate□cement paste interfacial zone in concrete. *Journal of Materials Research*, **1991**, 6, 196-201	2.5	98
125	Early-Age Properties of Cement-Based Materials. II: Influence of Water-to-Cement Ratio. *Journal of Materials in Civil Engineering*, **2009**, 21, 512-517	3	97
124	Thermal properties of high-volume fly ash mortars and concretes. *Journal of Building Physics*, **2011**, 34, 263-275	2.6	96
123	Application of internal curing for mixtures containing high volumes of fly ash. *Cement and Concrete Composites*, **2012**, 34, 1001-1008	8.6	94

122	Prediction of Adiabatic Temperature Rise in Conventional and High-Performance Concretes Using a 3-D Microstructural Model. *Cement and Concrete Research*, **1998**, 28, 285-297	10.3	90
121	Interfacial transport in porous media: Application to dc electrical conductivity of mortars. *Journal of Applied Physics*, **1995**, 78, 5898-5908	2.5	89
120	The Influence of Calcium Chloride Deicing Salt on Phase Changes and Damage Development in Cementitious Materials. *Cement and Concrete Composites*, **2015**, 64, 1-15	8.6	88
119	Rheology and setting of high volume fly ash mixtures. *Cement and Concrete Composites*, **2010**, 32, 265-270	8.6	87
118	Effects of the incorporation of Municipal Solid Waste Incineration fly ash in cement pastes and mortars: I. Experimental study. *Cement and Concrete Research*, **2002**, 32, 303-311	10.3	87
117	The Visible Cement Data Set. *Journal of Research of the National Institute of Standards and Technology*, **2002**, 107, 137-48	1.3	86
116	Influence of silica fume on diffusivity in cement-based materials. *Cement and Concrete Research*, **2000**, 30, 1121-1129	10.3	84
115	Influence of Cement Particle-Size Distribution on Early Age Autogenous Strains and Stresses in Cement-Based Materials. *Journal of the American Ceramic Society*, **2001**, 84, 129-135	3.8	82
114	Optimization of cement and fly ash particle sizes to produce sustainable concretes. *Cement and Concrete Composites*, **2011**, 33, 824-831	8.6	80
113	Modeling of the influence of transverse cracking on chloride penetration into concrete. *Cement and Concrete Composites*, **2013**, 38, 65-74	8.6	77
112	Activation energies of high-volume fly ash ternary blends: Hydration and setting. *Cement and Concrete Composites*, **2014**, 53, 214-223	8.6	73
111	Cellular automaton simulations of cement hydration and microstructure development. *Modelling and Simulation in Materials Science and Engineering*, **1994**, 2, 783-808	2	73
110	Using a Saturation Function to Interpret the Electrical Properties of Partially Saturated Concrete. *Journal of Materials in Civil Engineering*, **2013**, 25, 1097-1106	3	72
109	Acoustic emission waveform characterization of crack origin and mode in fractured and ASR damaged concrete. *Cement and Concrete Composites*, **2015**, 60, 135-145	8.6	70
108	Factors that Influence Electrical Resistivity Measurements in Cementitious Systems. *Transportation Research Record*, **2013**, 2342, 90-98	1.7	69
107	Capillary porosity depercolation in cement-based materials: Measurement techniques and factors which influence their interpretation. *Cement and Concrete Research*, **2011**, 41, 854-864	10.3	69
106	In situ measurement of water at the organic coating/substrate interface. *Progress in Organic Coatings*, **1996**, 27, 181-193	4.8	69
105	Experimental and simulation studies of the interfacial zone in concrete. *Cement and Concrete Research*, **1992**, 22, 891-902	10.3	69

104	Early-Age Properties of Cement-Based Materials. I: Influence of Cement Fineness. *Journal of Materials in Civil Engineering*, **2008**, 20, 502-508	3	68
103	Influence of Shrinkage-Reducing Admixtures on Early-Age Properties of Cement Pastes. *Journal of Advanced Concrete Technology*, **2006**, 4, 423-429	2.3	68
102	Mitigation of autogenous shrinkage in alkali activated slag mortars by internal curing. *Materials and Structures/Materiaux Et Constructions*, **2013**, 46, 1355-1367	3.4	67
101	A virtual rapid chloride permeability test. *Cement and Concrete Composites*, **2007**, 29, 723-731	8.6	67
100	CEMHYD3D:		67
99	Damage development in cementitious materials exposed to magnesium chloride deicing salt. *Construction and Building Materials*, **2015**, 93, 384-392	6.7	66
98	A comparison study of Portland cement hydration kinetics as measured by chemical shrinkage and isothermal calorimetry. *Cement and Concrete Composites*, **2013**, 39, 23-32	8.6	66
97	Modeling the influence of the interfacial zone on the DC electrical conductivity of mortar. *Advanced Cement Based Materials*, **1995**, 2, 169-181		65
96	Evolution of porosity and calcium hydroxide in laboratory concretes containing silica fume. *Cement and Concrete Research*, **1994**, 24, 1044-1050	10.3	65
95	Transport and diffusion in three-dimensional composite media. *Physica A: Statistical Mechanics and Its Applications*, **1994**, 207, 28-36	3.3	61
94	Increasing the Service Life of Bridge Decks by Incorporating Phase-Change Materials to Reduce Freeze-Thaw Cycles. *Journal of Materials in Civil Engineering*, **2012**, 24, 1034-1042	3	60
93	Multi-Scale Microstructural Modeling of Concrete Diffusivity: Identification of Significant Varibles. *Cement, Concrete and Aggregates*, **1998**, 20, 129		60
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91	Hydraulic radius and transport in reconstructed model three-dimensional porous media. *Transport in Porous Media*, **1994**, 17, 221-238	3.1	57
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89	An argument for using coarse cements in high-performance concretes. *Cement and Concrete Research*, **1999**, 29, 615-618	10.3	56
88	CEMHYD3D:		54
87	Computer modeling of the replacement of □oarse□cement particles by inert fillers in low w/c ratio concretes. *Cement and Concrete Research*, **2001**, 31, 503-506	10.3	53

86	Cement hydration: building bridges and dams at the microstructure level. *Materials and Structures/Materiaux Et Constructions*, **2007**, 40, 397-404	3.4	48
85	Modelling drying shrinkage of cement paste and mortar Part 1. Structural models from nanometres to millimetres. *Materiaux Et Constructions*, **1995**, 28, 450-458		48
84	Acoustic Emission and Low-Temperature Calorimetry Study of Freeze and Thaw Behavior in Cementitious Materials Exposed to Sodium Chloride Salt. *Transportation Research Record*, **2014**, 2441, 81-90	1.7	45
83	Preliminary observations of water movement in cement pastes during curing using X-ray absorption. *Cement and Concrete Research*, **2000**, 30, 1157-1168	10.3	45
82	Fluid transport in high volume fly ash mixtures with and without internal curing. *Cement and Concrete Composites*, **2014**, 45, 102-110	8.6	44
81	Replacement of "coarse" cement particles by inert fillers in low w/c ratio concretes. *Cement and Concrete Research*, **2005**, 35, 185-188	10.3	44
80	Reducing Set Retardation in High-Volume Fly Ash Mixtures with the Use of Limestone: Iimproving Constructability for Sustainability. *Transportation Research Record*, **2012**, 2290, 139-146	1.7	42
79	Blending different fineness cements to engineer the properties of cement-based materials. *Magazine of Concrete Research*, **2010**, 62, 327-338	2	42
78	Influence of Substrate Moisture State and Roughness on Interface Microstructure and Bond Strength: Slant Shear vs. Pull-Off Testing. *Cement and Concrete Composites*, **2018**, 87, 63-72	8.6	41
77	A computer model to predict the surface temperature and time-of-wetness of concrete pavements and bridge decks		40
76	Influence of Shrinkage-Reducing Admixtures on Moisture Absorption in Cementitious Materials at Early Ages. *Journal of Materials in Civil Engineering*, **2010**, 22, 277-286	3	39
75	Effects of the incorporation of Municipal Solid Waste Incineration fly ash in cement pastes and mortars: II: Modeling. *Cement and Concrete Research*, **2002**, 32, 565-576	10.3	38
74	Quantitative comparison of real and CEMHYD3D model microstructures using correlation functions. *Cement and Concrete Research*, **2006**, 36, 259-263	10.3	37
73	Quantifying Water at the Organic Film/Hydroxylated Substrate Interface **1995**, 48, 169-194		37
72	The reaction between metakaolin and limestone and its effect in porosity refinement and mechanical properties. *Cement and Concrete Research*, **2021**, 140, 106307	10.3	37
71	A hard coresoft shell microstructural model for studying percolation and transport in three-dimensional composite media		35
70	Evaluating the hydration of high volume fly ash mixtures using chemically inert fillers. *Construction and Building Materials*, **2018**, 161, 221-228	6.7	35
69	On the Relation of Setting and Early-Age Strength Development to Porosity and Hydration in Cement-Based Materials. *Cement and Concrete Composites*, **2016**, 68, 9-14	8.6	34

68	Decoupling the physical and chemical effects of supplementary cementitious materials on strength and permeability: A multi-level approach. *Cement and Concrete Composites*, **2016**, 65, 19-28	8.6	34
67	Numerical Simulation of the Freeze-Thaw Behavior of Mortar Containing Deicing Salt Solution. *Materials and Structures/Materiaux Et Constructions*, **2017**, 50, 1	3.4	32
66	Analytical formulas for interfacial transition zone properties **1997**, 6, 99-99		32
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63	Doubling the service life of concrete structures. I: Reducing ion mobility using nanoscale viscosity modifiers. *Cement and Concrete Composites*, **2008**, 30, 674-678	8.6	30
62	Microstructure and Thermal Conductivity of Hydrated Calcium Silicate Board Materials. *Journal of Building Physics*, **2007**, 31, 55-67	2.6	28
61	Influence of alkalis on porosity percolation in hydrating cement pastes. *Cement and Concrete Composites*, **2006**, 28, 427-431	8.6	28
60	Improved mesoscale segmentation of concrete from 3D X-ray images using contrast enhancers. *Cement and Concrete Composites*, **2018**, 93, 30-42	8.6	27
59	Low-Temperature Curing Strength Enhancement in Cement-Based Materials Containing Limestone Powder. *Materials and Structures/Materiaux Et Constructions*, **2017**, 50, 1	3.4	25
58	Thermo-mechanical assessment of concrete microcracking damage due to early-age temperature rise. *Construction and Building Materials*, **2015**, 81, 140-153	6.7	24
57	D90: The Strongest Contributor to Setting Time in Mineral Trioxide Aggregate and Portland Cement. *Journal of Endodontics*, **2015**, 41, 1146-50	4.7	24
56	Towards the formulation of robust and sustainable cementitious binders for 3-D additive construction by extrusion. *Construction and Building Materials*, **2018**, 175, 215-224	6.7	24
55	Capillary Porosity Depercolation/Repercolation in Hydrating Cement Pastes Via Low-Temperature Calorimetry Measurements and CEMHYD3D Modeling. *Journal of the American Ceramic Society*, **2006**, 89, 2606-2611	3.8	23
54	In Situ Spectroscopic Study of Water at the Asphalt/Siliceous Substrate Interface and Its Implication in Stripping **2005**, 81, 1-28		22
53	Using Neutron Radiography to Quantify Water Transport and the Degree of Saturation in Entrained Air Cement Based Mortar. *Physics Procedia*, **2015**, 69, 542-550		21
52	Recycling of hydrated cement pastes by synthesis of 2H-C2S. *Cement and Concrete Research*, **2017**, 100, 398-412	10.3	20
51	Reducing setting time of blended cement paste containing high-SO fly ash (HSFA) using chemical/physical accelerators and by fly ash pre-washing. *Cement and Concrete Composites*, **2018**, 90, 14-26	8.6	20

50	Electrical Testing of Cement-Based Materials: Role of Testing Techniques, Sample Conditioning		20
49	Simulation studies of methods to delay corrosion and increase service life for cracked concrete exposed to chlorides. *Cement and Concrete Composites*, **2015**, 58, 59-69	8.6	19
48	Parametric Assessment of Stress Development and Cracking in Internally Cured Restrained Mortars Experiencing Autogenous Deformations and Thermal Loading. *Advances in Civil Engineering*, **2011**, 2011, 1-16	1.3	19
47	Relating Compressive Strength to Heat Release in Mortars. *Advances in Civil Engineering Materials*, **2012**, 1, 20120002	0.7	19
46	Design and performance of ternary blend high-volume fly ash concretes of moderate slump. *Construction and Building Materials*, **2015**, 84, 409-415	6.7	18
45	Numerical simulation of heat and mass transport during hydration of Portland cement mortar in semi-adiabatic and steam curing conditions. *Cement and Concrete Composites*, **2016**, 69, 38-48	8.6	18
44	Computer Simulations of Binder Removal from 2-D and 3-D Model Particulate Bodies. *Journal of the American Ceramic Society*, **1996**, 79, 1377-1388	3.8	18
43	Calculation of the Thermal Conductivity and Gas Permeability in a Uniaxial Bundle of Fibers. *Journal of the American Ceramic Society*, **1994**, 77, 2669-2680	3.8	18
42	Influence of internal curing and viscosity modifiers on resistance to sulfate attack. *Materials and Structures/Materiaux Et Constructions*, **2014**, 47, 581-589	3.4	17
41	Computational Materials Science of Cement-Based Materials. *MRS Bulletin*, **1993**, 18, 50-54	3.2	17
40	CEMHYD3D:		17
39	The ONIX model: a parameter-free multiscale framework for the prediction of self-desiccation in concrete. *Cement and Concrete Composites*, **2019**, 103, 36-48	8.6	16
38	Accelerated and natural carbonation of concretes with internal curing and shrinkage/viscosity modifiers. *Materials and Structures/Materiaux Et Constructions*, **2015**, 48, 1207-1214	3.4	16
37	A methodology for assessing the chemical and physical potential of industrially sourced rice husk ash on strength development and early-age hydration of cement paste. *Construction and Building Materials*, **2017**, 149, 869-881	6.7	14
36	Relationship Between Engineering Properties, Mineralogy, and Microstructure in Cement-Based Hydroceramic Materials Cured at 200□350□C. *Journal of the American Ceramic Society*, **2009**, 92, 694-701	3.8	14
35	Binder Distribution in Macro-Defect-Free Cements: Relation between Percolative Properties and Moisture Absorption Kinetics. *Journal of the American Ceramic Society*, **1994**, 77, 711-716	3.8	14
34	Continuous strength measurements of cement pastes and concretes by the ultrasonic wave reflection method. *Construction and Building Materials*, **2020**, 242, 117902	6.7	14
33	Anion Capture and Exchange by Functional Coatings: New Routes to Mitigate Steel Corrosion in Concrete Infrastructure. *Cement and Concrete Research*, **2017**, 101, 82-92	10.3	13

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31	Doubling the service life of concrete structures. II: Performance of nanoscale viscosity modifiers in mortars. *Cement and Concrete Composites*, **2010**, 32, 187-193	8.6	13
30	X-ray absorption studies of drying of cementitious tile adhesive mortars. *Cement and Concrete Composites*, **2008**, 30, 361-373	8.6	13
29	A slug calorimeter for evaluating the thermal performance of fire resistive materials. *Fire and Materials*, **2006**, 30, 257-270	1.8	13
28	Best Practices Guide for High-Volume Fly Ash Concretes : Assuring Properties and Performance		13
27	Anticipating the Setting Time of High-Volume Fly Ash Concretes Using Electrical Measurements: Feasibility Studies Using Pastes. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014129	3	12
26	Applying a biodeposition layer to increase the bond of a repair mortar on a mortar substrate. *Cement and Concrete Composites*, **2018**, 86, 30-39	8.6	11
25	Determining thermal properties of gypsum board at elevated temperatures. *Fire and Materials*, **2009**, 34, n/a-n/a	1.8	10
24	Application of Digital-Image-Based Models to Microstructure, Transport Properties, and Degradation of Cement-Based materials **1996**, 167-185		10
23	Towards a methodology for the characterization of fire resistive materials with respect to thermal performance models. *Fire and Materials*, **2006**, 30, 311-321	1.8	9
22	Comparative study of methods to measure the density of Cementious powders. *Journal of Testing and Evaluation*, **2016**, 44,	1	9
21	Using Viscosity Modifiers to Reduce Effective Diffusivity in Mortars. *Journal of Materials in Civil Engineering*, **2012**, 24, 1017-1024	3	8
20	Minimizing Paste Content in Concrete Using Limestone Powders - Demonstration Mixtures		8
19	Effect of a micro-copolymer addition on the thermal conductivity of fly ash mortars. *Journal of Building Physics*, **2016**, 40, 3-16	2.6	8
18	Measurement and Modeling of the Ability of Crack Fillers to Prevent Chloride Ingress into Mortar. *Cement and Concrete Composites*, **2017**, 81, 109-121	8.6	6
17	NEUTRON RADIOGRAPHY MEASUREMENT OF SALT SOLUTION ABSORPTION IN MORTAR. *ACI Materials Journal*, **2017**, 114, 149-159	0.9	6
16	Rheological Control of 3D Printable Cement Paste and Mortars. *RILEM Bookseries*, **2019**, 70-80	0.5	6
15	Thermal degradation of poly(methyl methacrylate) at 50°C to 125°C. *Journal of Applied Polymer Science*, **1987**, 34, 377-393	2.9	5

14	Influence of curing conditions on water loss and hydration in cement pastes with and without fly ash substitution		5
13	Study of early-age bridge deck cracking in Nevada and Wyoming **2012**,		4
12	Critical observations for the evaluation of cement hydration models. *International Journal of Advances in Engineering Sciences and Applied Mathematics*, **2010**, 2, 75-82	0.6	4
11	Effects of Initial Surface Treatment Timing on Chloride Concentrations in Concrete Bridge Decks. *Transportation Research Record*, **2007**, 2028, 103-110	1.7	4
10	Modeling Heat and Moisture Transport in Steam-Cured Mortar: Application to Aashto Type Vi Beams. *Construction and Building Materials*, **2017**, 151, 186-195	6.7	3
9	Comparison of ASTM C311 Strength Activity Index Testing versus Testing Based on Constant Volumetric Proportions. *Journal of ASTM International*, **2012**, 9, 104138		3
8	A Materials Science-Based Approach to Characterizing Fire Resistive Materials. *Journal of ASTM International*, **2009**, 6, 102203		3
7	Surface and Uniaxial Electrical Measurements on Layered Cementitious Composites having Cylindrical and Prismatic Geometries **2014**,		3
6	Low temperature calorimetry studies of hydrating Portland cement pastes		3
5	Effect of Initial Timing of Scarification and Overlay Treatment on Chloride Concentrations in Concrete Bridge Decks. *Transportation Research Record*, **2011**, 2220, 66-74	1.7	1
4	A reply to a discussion by S. Chatterji of the paper Percolation and pore structure in mortars and concrete *Cement and Concrete Research*, **1994**, 24, 1569-1571	10.3	1
3	Characterization of cylindrical holes in metallic substrates via their infrared emission patterns. *Wear*, **1991**, 143, 255-266	3.5	1
2	A reply to a discussion by S. Chatterji of the paper Percolation of phases in a three-dimensional cement paste microstructural model *Cement and Concrete Research*, **1991**, 21, 1187-1188	10.3	1
1	Towards the Formulation of Robust and Sustainable Cementitious Binders for 3D Additive Construction by Extrusion **2019**, 307-331		1