Sarah L Billington

List of Publications by Year
in descending order

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35 papers	1,803 citations	279487 23 h-index	377514 34 g-index
35 all docs	35 docs citations	35 times ranked	1628 citing authors

#	Article	IF	Citations
1	Impact of UHPC Tensile Behavior on Steel Reinforced UHPC Flexural Behavior. Journal of Structural Engineering, 2022, 148, .	1.7	24
2	Impact of fiber distribution and cyclic loading on the bond behavior of steel-reinforced UHPC. Cement and Concrete Composites, 2022, 126, 104338.	4.6	30
3	Impact of cyclic loading on longitudinally-reinforced UHPC flexural members with different fiber volumes and reinforcing ratios. Engineering Structures, 2021, 241, 112454.	2.6	32
4	Gradual Crushing of Steel Reinforced HPFRCC Beams: Experiments and Simulations. Journal of Structural Engineering, 2021, 147, .	1.7	25
5	Flexural performance of steel-reinforced engineered cementitious composites with different reinforcing ratios and steel types. Construction and Building Materials, 2020, 231, 117159.	3.2	23
6	Predicting the two predominant flexural failure paths of longitudinally reinforced high-performance fiber-reinforced cementitious composite structural members. Engineering Structures, 2019, 199, 109581.	2.6	40
7	Mechanics and failure characteristics of hybrid fiber-reinforced concrete (HyFRC) composites with longitudinal steel reinforcement. Engineering Structures, 2019, 183, 243-254.	2.6	19
8	A lignin-epoxy resin derived from biomass as an alternative to formaldehyde-based wood adhesives. Green Chemistry, 2018, 20, 1459-1466.	4.6	182
9	Experimental Testing of Reinforced ECC Beams Subjected to Various Cyclic Deformation Histories. Journal of Structural Engineering, 2018, 144, .	1.7	18
10	Biocomposite Fiber-Matrix Treatments that Enhance In-Service Performance Can Also Accelerate End-of-Life Fragmentation and Anaerobic Biodegradation to Methane. Journal of Polymers and the Environment, 2018, 26, 1715-1726.	2.4	22
11	Simulation of Deformation Capacity in Reinforced High-Performance Fiber-Reinforced Cementitious Composite Flexural Members. Journal of Structural Engineering, 2018, 144, .	1.7	24
12	Methodology to assess end-of-life anaerobic biodegradation kinetics and methane production potential for composite materials. Composites Part A: Applied Science and Manufacturing, 2017, 95, 388-399.	3.8	12
13	Assessment of models for anaerobic biodegradation of a model bioplastic: Poly(hydroxybutyrate-co-hydroxyvalerate). Bioresource Technology, 2017, 227, 205-213.	4.8	29
14	Experimental testing of reinforced concrete and reinforced ECC flexural members subjected to various cyclic deformation histories. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	22
15	Bond behavior and interface modeling of reinforced high-performance fiber-reinforced cementitious composites. Cement and Concrete Composites, 2017, 83, 188-201.	4.6	56
16	Impact of Reinforcement Ratio and Loading Type on the Deformation Capacity of High-Performance Fiber-Reinforced Cementitious Composites Reinforced with Mild Steel. Journal of Structural Engineering, 2016, 142, .	1.7	56
17	Influence of carbon feedstock on potentially net beneficial environmental impacts of bio-based composites. Journal of Cleaner Production, 2016, 132, 266-278.	4.6	8
18	Bond behavior of steel reinforcement in high-performance fiber-reinforced cementitious composite flexural members. Materials and Structures/Materiaux Et Constructions, 2016, 49, 71-86.	1.3	93

#	Article	IF	Citations
19	Integrating durability-based service-life predictions with environmental impact assessments of natural fiberâ€“reinforced composite materials. Resources, Conservation and Recycling, 2015, 99, 72-83.	5.3	42
20	Tension stiffening in reinforced high performance fiber reinforced cement-based composites. Cement and Concrete Composites, 2014, 50, 36-46.	4.6	104
21	Incorporating spatiotemporal effects and moisture diffusivity into a multi-criteria materials selection methodology for woodâ€“polymer composites. Construction and Building Materials, 2014, 71, 589-601.	3.2	14
22	Seismic Retrofit of Steel Moment-Resisting Frames with High-Performance Fiber-Reinforced Concrete Infill Panels: Large-Scale Hybrid Simulation Experiments. Journal of Structural Engineering, 2014, 140, .	1.7	26
23	A Renewable Ligninâ€“Lactide Copolymer and Application in Biobased Composites. ACS Sustainable Chemistry and Engineering, 2013, 1, 1231-1238.	3.2	282
24	Application of multi-criteria material selection techniques to constituent refinement in biobased composites. Materials & Design, 2013, 52, 1043-1051.	5.1	15
25	Mechanisms and impact of fiberâ€“matrix compatibilization techniques on the material characterization of PHBV/oak wood flour engineered biobased composites. Composites Science and Technology, 2012, 72, 708-715.	3.8	111
26	Modeling the kinetics of water transport and hydroexpansion in a lignocellulose-reinforced bacterial copolyester. Polymer, 2012, 53, 2152-2161.	1.8	43
27	Performanceâ€based earthquake engineering assessment of a selfâ€centering, postâ€tensioned concrete bridge system. Earthquake Engineering and Structural Dynamics, 2011, 40, 887-902.	2.5	53
28	Modeling Residual Displacements of Concrete Bridge Columns under Earthquake Loads Using Fiber Elements. Journal of Bridge Engineering, 2010, 15, 240-249.	1.4	45
29	Comparison of Retrofitting Techniques for Existing Steel Moment Resisting Frames. , 2009, , .		2
30	Investigation of Infill Panels Made from Engineered Cementitious Composites for Seismic Strengthening and Retrofit. Journal of Structural Engineering, 2005, 131, 1712-1720.	1.7	87
31	Influence of Hysteretic Behavior on Equivalent Period and Damping of Structural Systems. Journal of Structural Engineering, 2003, 129, 576-585.	1.7	62
32	Unbonded Posttensioned Concrete Bridge Piers. I: Monotonic and Cyclic Analyses. Journal of Bridge Engineering, 2003, 8, 92-101.	1.4	89
33	Unbonded Posttensioned Concrete Bridge Piers. II: Seismic Analyses. Journal of Bridge Engineering, 2003, 8, 102-111.	1.4	52
34	Experimental Response of Precast Infill Panel Connections and Panels Made with DFRCC. Journal of Advanced Concrete Technology, 2003, 1, 327-333.	0.8	12
35	Title is missing!. International Journal of Fracture, 2002, 115, 101-123.	1.1	49