

Wil V Srubar Iii

List of Publications by Year in Descending Order

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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.

60
papers

1,138
citations

19
h-index

32
g-index

66
ext. papers

1,536
ext. citations

7.2
avg, IF

5.5
L-index

#	Paper	IF	Citations
60	Engineered Living Materials for Construction 2022 , 187-216		1
59	Ice-binding proteins and bioinspired synthetic mimics in non-physiological environments.. <i>IScience</i> , 2022 , 25, 104286	6.1	
58	Machine learning in concrete science: applications, challenges, and best practices. <i>Npj Computational Materials</i> , 2022 , 8,	10.9	7
57	Retardation of Portland Cement Hydration with Photosynthetic Algal Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 13726-13734	8.3	0
56	A New Estimate of Building Floor Space in North America. <i>Environmental Science & Technology</i> , 2021 , 55, 5161-5170	10.3	1
55	Atomic structure and phase assemblages in novel M-(N)-A-S-H materials. <i>Cement and Concrete Research</i> , 2021 , 142, 106336	10.3	1
54	Silica-modifying chemical admixtures for directed zeolitization of metakaolin-based alkali-activated materials. <i>Cement and Concrete Research</i> , 2021 , 142, 106348	10.3	5
53	Mechanics, optics, and thermodynamics of water transport in chemically modified transparent wood composites. <i>Composites Science and Technology</i> , 2021 , 208, 108737	8.6	2
52	Iron mineral admixtures improve the sulfuric acid resistance of low-calcium alkali-activated cements. <i>Cement and Concrete Composites</i> , 2021 , 116, 103867	8.6	2
51	Engineered Living Materials: Taxonomies and Emerging Trends. <i>Trends in Biotechnology</i> , 2021 , 39, 574-583	3.1	19
50	Effect of pH on the activity of ice-binding protein from <i>Marinomonas primoryensis</i> . <i>Extremophiles</i> , 2021 , 25, 1-13	3	2
49	Engineering living building materials for enhanced bacterial viability and mechanical properties. <i>IScience</i> , 2021 , 24, 102083	6.1	6
48	Sulfuric acid degradation of alkali-activated metakaolin cements supplemented with brucite. <i>Cement and Concrete Composites</i> , 2021 , 121, 104063	8.6	2
47	Influence of copper-impregnated basic oxygen furnace slag on the fresh- and hardened-state properties of antimicrobial mortars. <i>Cement and Concrete Composites</i> , 2021 , 121, 104059	8.6	0
46	Surfactant properties of a biomimetic antifreeze polymer admixture for improved freeze-thaw durability of concrete. <i>Construction and Building Materials</i> , 2021 , 313, 125423	6.7	0
45	Embodied and Operational Energy Analysis of Passive House-Inspired High-Performance Residential Building Envelopes. <i>Journal of Architectural Engineering</i> , 2020 , 26, 04020010	1.5	7
44	Inhibiting Freeze-Thaw Damage in Cement Paste and Concrete by Mimicking Nature's Antifreeze. <i>Cell Reports Physical Science</i> , 2020 , 1, 100060	6.1	7

43	Biom mineralization and Successive Regeneration of Engineered Living Building Materials. <i>Matter</i> , 2020 , 2, 481-494	12.7	50
42	On the theoretical carbon storage and carbon sequestration potential of hempcrete. <i>Journal of Cleaner Production</i> , 2020 , 266, 121846	10.3	14
41	Biobased polymers for mitigating early- and late-age cracking in concrete 2020 , 19-41		2
40	Dispersion and effects of metal impregnated granular activated carbon particles on the hydration of antimicrobial mortars. <i>Cement and Concrete Composites</i> , 2020 , 110, 103588	8.6	3
39	Sulfuric acid improves the reactivity of zeolites via dealumination. <i>Construction and Building Materials</i> , 2020 , 264, 120648	6.7	5
38	Statistical variation in the embodied carbon of concrete mixtures. <i>Journal of Cleaner Production</i> , 2020 , 275, 123088	10.3	5
37	Genome engineering of E. coli for improved styrene production. <i>Metabolic Engineering</i> , 2020 , 57, 74-84	9.7	18
36	PVA- and PEG-assisted sol-gel synthesis of aluminosilicate precursors for N-A-S-H geopolymer cements. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 859-877	3.8	5
35	A comparison of machine learning methods for predicting the compressive strength of field-placed concrete. <i>Construction and Building Materials</i> , 2019 , 228, 116661	6.7	37
34	Zeolite Adsorption of Chloride from a Synthetic Alkali-Activated Cement Pore Solution. <i>Materials</i> , 2019 , 12,	3.5	6
33	Biochar-immobilized bacteria and superabsorbent polymers enable self-healing of fiber-reinforced concrete after multiple damage cycles. <i>Cement and Concrete Composites</i> , 2019 , 100, 35-52	8.6	54
32	Alternative Cements: Recent Developments and Future Directions 2019 ,		2
31	On the Theoretical CO ₂ Sequestration Potential of Pervious Concrete. <i>Infrastructures</i> , 2019 , 4, 12	2.6	4
30	Using Calcined Waste Eggshells to Remove Sulfate in Nonpotable Concrete Mixing Water. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 04019074	3	2
29	Ice-Binding Protein from Inhibits Ice Crystal Growth in Highly Alkaline Solutions. <i>Polymers</i> , 2019 , 11,	4.5	5
28	Optical Properties and Mechanical Modeling of Acetylated Transparent Wood Composite Laminates. <i>Materials</i> , 2019 , 12,	3.5	9
27	Engineered Ureolytic Microorganisms Can Tailor the Morphology and Nanomechanical Properties of Microbial-Precipitated Calcium Carbonate. <i>Scientific Reports</i> , 2019 , 9, 14721	4.9	26
26	Fine aggregate substitution with acidified granular activated carbon influences fresh-state and mechanical properties of ordinary Portland cement mortars. <i>Construction and Building Materials</i> , 2019 , 207, 59-69	6.7	7

25	Copper and cobalt improve the acid resistance of alkali-activated cements. <i>Cement and Concrete Research</i> , 2019 , 115, 327-338	10.3	18
24	Carrageenan-based superabsorbent biopolymers mitigate autogenous shrinkage in ordinary portland cement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018 , 51, 1	3.4	12
23	Computational design optimization of concrete mixtures: A review. <i>Cement and Concrete Research</i> , 2018 , 109, 42-53	10.3	92
22	Numerical service-life modeling of chloride-induced corrosion in recycled-aggregate concrete. <i>Construction and Building Materials</i> , 2018 , 161, 236-245	6.7	29
21	Fine aggregate substitution by granular activated carbon can improve physical and mechanical properties of cement mortars. <i>Construction and Building Materials</i> , 2018 , 164, 750-759	6.7	18
20	Cradle-to-gate CO ₂ e emissions vs. in situ CO ₂ sequestration of structural concrete elements. <i>Energy and Buildings</i> , 2018 , 167, 301-311	7	29
19	A review of chloride transport in alkali-activated cement paste, mortar, and concrete. <i>Construction and Building Materials</i> , 2018 , 186, 191-206	6.7	32
18	Nanoscale hygromechanical behavior of lignin. <i>Cellulose</i> , 2018 , 25, 6345-6360	5.5	11
17	Rational Control of Calcium Carbonate Precipitation by Engineered Escherichia coli. <i>ACS Synthetic Biology</i> , 2018 , 7, 2497-2506	5.7	12
16	Mineralization dynamics of metakaolin-based alkali-activated cements. <i>Cement and Concrete Research</i> , 2017 , 94, 1-12	10.3	25
15	A mathematical model for predicting the carbon sequestration potential of ordinary portland cement (OPC) concrete. <i>Construction and Building Materials</i> , 2017 , 147, 417-427	6.7	24
14	Evaporation-based method for preparing gelatin foams with aligned tubular pore structures. <i>Materials Science and Engineering C</i> , 2016 , 62, 467-73	8.3	12
13	Material characterization and hydraulic conductivity modeling of macroporous recycled-aggregate pervious concrete. <i>Construction and Building Materials</i> , 2016 , 110, 89-97	6.7	44
12	Experimental and theoretical investigation of prestressed natural fiber-reinforced polylactic acid (PLA) composite materials. <i>Composites Part B: Engineering</i> , 2016 , 95, 346-354	10	70
11	Activating relaxation-controlled diffusion mechanisms for tailored moisture resistance of gelatin-based bioadhesives for engineered wood products. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 435-441	8.4	2
10	Energy performance analysis of variable thermal resistance envelopes in residential buildings. <i>Energy and Buildings</i> , 2015 , 103, 317-325	7	72
9	Integrating durability-based service-life predictions with environmental impact assessments of natural fiber reinforced composite materials. <i>Resources, Conservation and Recycling</i> , 2015 , 99, 72-83	11.9	31
8	An analytical model for predicting the freeze-thaw durability of wood fiber composites. <i>Composites Part B: Engineering</i> , 2015 , 69, 435-442	10	13

7	Stochastic service-life modeling of chloride-induced corrosion in recycled-aggregate concrete. <i>Cement and Concrete Composites</i> , 2015 , 55, 103-111	8.6	48
6	Incorporating spatiotemporal effects and moisture diffusivity into a multi-criteria materials selection methodology for wood-polymer composites. <i>Construction and Building Materials</i> , 2014 , 71, 589-601	6.7	14
5	A micromechanical model for moisture-induced deterioration in fully biorenewable wood-plastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 50, 81-92	8.4	28
4	Modeling the kinetics of water transport and hydroexpansion in a lignocellulose-reinforced bacterial copolyester. <i>Polymer</i> , 2012 , 53, 2152-2161	3.9	40
3	Characterizing the effects of ambient aging on the mechanical and physical properties of two commercially available bacterial thermoplastics. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1922-1929	4.7	48
2	Mechanisms and impact of fiber-matrix compatibilization techniques on the material characterization of PHBV/oak wood flour engineered biobased composites. <i>Composites Science and Technology</i> , 2012 , 72, 708-715	8.6	93
1	Multi-Objective Optimization Methods for Designing Low-Carbon Concrete Mixtures. <i>Frontiers in Materials</i> , 8,	4	1