

Sabbie A Miller

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,602
citations

304743

22
h-index

302126

39
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39
all docs

39
docs citations

39
times ranked

2491
citing authors

#	ARTICLE	IF	CITATIONS
1	Using a micromechanical viscoelastic creep model to capture multi-phase deterioration in bio-based wood polymer composites exposed to moisture. <i>Construction and Building Materials</i> , 2022, 314, 125252.	7.2	6
2	A review of bioplastics at end-of-life: Linking experimental biodegradation studies and life cycle impact assessments. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106236.	10.8	52
3	Literature review on policies to mitigate GHG emissions for cement and concrete. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106278.	10.8	51
4	Reducing the environmental impacts of plastics while increasing strength: Biochar fillers in biodegradable, recycled, and fossil-fuel derived plastics. <i>Composites Part C: Open Access</i> , 2022, 8, 100253.	3.2	12
5	Effects of Leaching Method and Ashing Temperature of Rice Residues for Energy Production and Construction Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3677-3687.	6.7	2
6	US industrial sector decoupling of energy use and greenhouse gas emissions under COVID: durability and decarbonization. <i>Environmental Research Communications</i> , 2021, 3, 031003.	2.3	7
7	Using internal micro-scale architectures from additive manufacturing to increase material efficiency. <i>Journal of Cleaner Production</i> , 2021, 291, 125799.	9.3	5
8	The role of data variability and uncertainty in the probability of mitigating environmental impacts from cement and concrete. <i>Environmental Research Letters</i> , 2021, 16, 054053.	5.2	5
9	Utilization of post-consumer carpet calcium carbonate (PC4) from carpet recycling as a mineral resource in concrete. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105496.	10.8	5
10	Environmental impacts and environmental justice implications of supplementary cementitious materials for use in concrete. <i>Environmental Research: Infrastructure and Sustainability</i> , 2021, 1, 025003.	2.3	12
11	Achieving net zero greenhouse gas emissions in the cement industry via value chain mitigation strategies. <i>One Earth</i> , 2021, 4, 1398-1411.	6.8	93
12	The role of cement service-life on the efficient use of resources. <i>Environmental Research Letters</i> , 2020, 15, 024004.	5.2	28
13	Environmental Impacts of Alternative Cement Binders. <i>Environmental Science & Technology</i> , 2020, 54, 677-686.	10.0	93
14	Environmental impacts and decarbonization strategies in the cement and concrete industries. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 559-573.	29.7	483
15	Quantitative Assessment of Alkali-Activated Materials: Environmental Impact and Property Assessments. <i>Journal of Infrastructure Systems</i> , 2020, 26, .	1.8	14
16	Climate and health damages from global concrete production. <i>Nature Climate Change</i> , 2020, 10, 439-443.	18.8	114
17	The environmental attributes of wood fiber composites with bio-based or petroleum-based plastics. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 1145-1159.	4.7	28
18	Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070. <i>Applied Energy</i> , 2020, 266, 114848.	10.1	427

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19	Eco-efficient design indices for reinforced concrete members. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019, 52, 1.	3.1	17
20	Hydrothermal aging of bio-based poly(lactic acid) (PLA) wood polymer composites: Studies on sorption behavior, morphology, and heat conductance. <i>Construction and Building Materials</i> , 2019, 214, 290-302.	7.2	34
21	Rice-based ash in concrete: A review of past work and potential environmental sustainability. <i>Resources, Conservation and Recycling</i> , 2019, 146, 416-430.	10.8	63
22	Reducing greenhouse gas emissions for prescribed concrete compressive strength. <i>Construction and Building Materials</i> , 2018, 167, 918-928.	7.2	40
23	Supplementary cementitious materials to mitigate greenhouse gas emissions from concrete: can there be too much of a good thing?. <i>Journal of Cleaner Production</i> , 2018, 178, 587-598.	9.3	132
24	Impacts of booming concrete production on water resources worldwide. <i>Nature Sustainability</i> , 2018, 1, 69-76.	23.7	247
25	Carbon dioxide reduction potential in the global cement industry by 2050. <i>Cement and Concrete Research</i> , 2018, 114, 115-124.	11.0	359
26	Natural fiber textile reinforced bio-based composites: Mechanical properties, creep, and environmental impacts. <i>Journal of Cleaner Production</i> , 2018, 198, 612-623.	9.3	43
27	Towards sustainable concrete. <i>Nature Materials</i> , 2017, 16, 698-699.	27.5	683
28	Readily implementable techniques can cut annual CO ₂ emissions from the production of concrete by over 20%. <i>Environmental Research Letters</i> , 2016, 11, 074029.	5.2	278
29	Concrete mixture proportioning for desired strength and reduced global warming potential. <i>Construction and Building Materials</i> , 2016, 128, 410-421.	7.2	60
30	Influence of carbon feedstock on potentially net beneficial environmental impacts of bio-based composites. <i>Journal of Cleaner Production</i> , 2016, 132, 266-278.	9.3	8
31	Comparison indices for design and proportioning of concrete mixtures taking environmental impacts into account. <i>Cement and Concrete Composites</i> , 2016, 68, 131-143.	10.7	54
32	Greenhouse gas emissions from concrete can be reduced by using mix proportions, geometric aspects, and age as design factors. <i>Environmental Research Letters</i> , 2015, 10, 114017.	5.2	49
33	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.	10.8	42
34	Static versus Time-Dependent Material Selection Charts and Application in Wood Flour Composites. <i>Journal of Biobased Materials and Bioenergy</i> , 2015, 9, 273-283.	0.3	7
35	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.	7.2	14
36	Application of multi-criteria material selection techniques to constituent refinement in biobased composites. <i>Materials & Design</i> , 2013, 52, 1043-1051.	5.1	15

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37	Improvement in environmental performance of poly(β -hydroxybutyrate)-co-(β -hydroxyvalerate) composites through process modifications. <i>Journal of Cleaner Production</i> , 2013, 40, 190-198.	9.3	17
38	Evaluation of Functional Units Including Time-Dependent Properties for Environmental Impact Modeling of Biobased Composites. <i>Journal of Biobased Materials and Bioenergy</i> , 2013, 7, 588-599.	0.3	2