David G Carmichael

List of Publications by Year
in descending order

80 papers	1,010 citations	566801 15 h-index	580395 25 g-index
84 all docs	84 docs citations	84 times ranked	546 citing authors

#	Article	IF	Citations
1	A review of building/infrastructure sustainability reporting tools (SRTs). Smart and Sustainable Built Environment, 2013, 2, 106-139.	2.2	77
2	The relationship between sustainability practices and financial performance of construction companies. Smart and Sustainable Built Environment, 2013, 2, 6-27.	2.2	70
3	Carbon value engineering: A framework for integrating embodied carbon and cost reduction strategies in building design. Building and Environment, 2021, 192, 107620.	3.0	59
4	The impact of ESG disclosures and institutional ownership on market information asymmetry. Asia-Pacific Journal of Accounting and Economics, 2016, 23, 432-448.	0.7	51
5	Optimal Incentive Contract with Risk-Neutral Contractor. Journal of Construction Engineering and Management - ASCE, 2013, 139, 899-909.	2.0	39
6	Probabilistic DCF Analysis and Capital Budgeting and Investmentâ€"a Survey. Engineering Economist, 2008, 53, 84-102.	0.3	37
7	Project Planning, and Control. , 0, , .		34
8	Comparative performance of publicly listed construction companies: Australian evidence. Construction Management and Economics, 2010, 28, 919-932.	1.8	31
9	Surface mining operations: coincident unit cost and emissions. International Journal of Mining, Reclamation and Environment, 2014, 28, 47-65.	1.2	29
10	Problem Solving for Engineers. , 0, , .		25
11	Risk â€“ a commentary. Civil Engineering and Environmental Systems, 2016, 33, 177-198.	0.4	24
12	Infrastructure Investment. , 0, , .		24
13	An Alternative Approach to Capital Investment Appraisal. Engineering Economist, 2011, 56, 123-139.	0.3	22
14	A proposed framework for assessing the sustainability of infrastructure. International Journal of Construction Management, 2016, 16, 281-298.	2.2	19
15	Incorporating resilience through adaptability and flexibility. Civil Engineering and Environmental Systems, 2015, 32, 31-43.	0.4	18
16	A cash flow view of real options. Engineering Economist, 2016, 61, 265-288.	0.3	18
17	Measuring project sustainability maturity level - a fuzzy-based approach. International Journal of Sustainable Development, 2016, 19, 76.	0.1	16
18	ANN-based prediction intervals to forecast labour productivity. Engineering, Construction and Architectural Management, 2020, 27, 2335-2351.	1.8	16

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19	Shovelâ€“truck queues: a reconciliation of theory and practice. Construction Management and Economics, 1986, 4, 161-177.	1.8	14
20	Minimum Operational Emissions in Earthmoving. , 2012, , .		14
21	Truck dispatching and minimum emissions earthmoving. Smart and Sustainable Built Environment, 2014, 3, 170-186.	2.2	14
22	Uncertainties related to financial variables within infrastructure life cycle costing: a literature review. Structure and Infrastructure Engineering, 2018, 14, 1233-1243.	2.0	14
23	The conceptual power of control systems theory in engineering practice. Civil Engineering and Environmental Systems, 2013, 30, 231-242.	0.4	13
24	An optimal target cost contract with a risk neutral owner. Engineering, Construction and Architectural Management, 2014, 21, 586-604.	1.8	13
25	Optimal sharing arrangement for multiple project outcomes. Journal of Financial Management of Property and Construction, 2014, 19, 264-280.	0.9	13
26	A utility measure of attitudes to lower-emissions production in construction. Journal of Cleaner Production, 2018, 202, 23-32.	4.6	13
27	Hybrid fuzzy-system dynamics approach for quantification of the impacts of construction claims. Engineering, Construction and Architectural Management, 2019, 26, 1261-1276.	1.8	13
28	A Study of Correlation Aspects in Probabilistic NPV Analysis. Engineering Economist, 2010, 55, 181-199.	0.3	12
29	Improving the attractiveness of CDM projects through allowing and incorporating options. Energy Policy, 2015, 86, 784-791.	4.2	12
30	The financial additionality and viability of CDM projects allowing for uncertainty. Environment, Development and Sustainability, 2016, 18, 129-141.	2.7	12
31	The relationship between heavy equipment cost efficiency and cleaner production in construction. Journal of Cleaner Production, 2019, 211, 521-529.	4.6	12
32	Labour productivity in Australian building construction projects: a roadmap for improvement. International Journal of Construction Management, 2022, 22, 2079-2088.	2.2	12
33	Eriang loading models in earthmoving. Civil Engineering and Environmental Systems, 1986, 3, 118-124.	0.2	11
34	Performance Risk Associated with Renewable Energy CDM Projects. Journal of Management in Engineering - ASCE, 2012, 28, 51-58.	2.6	11
35	Emission and cost effects of training for construction equipment operators. Smart and Sustainable Built Environment, 2016, 5, 96-110.	2.2	11
36	A hybrid approach for quantitative assessment of construction projects risks: The case study of poor quality concrete. Computers and Industrial Engineering, 2019, 131, 306-319.	3.4	11

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37	Optimum Outcome-Sharing Construction Contracts with Multiagent and Multioutcome Arrangements. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020067.	2.0	11
38	Resilience and Systemsâ€"A Review. Sustainability, 2022, 14, 8327.	1.6	11
39	The influence of extra projects on overall investment feasibility. Journal of Financial Management of Property and Construction, 2008, 13, 161-175.	0.9	9
40	Optimum scraper load time and fleet size for minimum emissions. International Journal of Construction Management, 2014, 14, 209-226.	2.2	9
41	A Note on Equivalent Fixed Rate and Variable Rate Loans; Borrower's Perspective. Engineering Economist, 2015, 60, 155-162.	0.3	9
42	Single Treatment of PPP Road Project Options. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	9
43	A refined queueing model for earthmoving operations. Civil Engineering and Environmental Systems, 1987, 4, 153-159.	0.2	8
44	A contractor's classification of owner payment practices. Engineering, Construction and Architectural Management, 2013, 20, 29-45.	1.8	8
45	Emissions and production penalties/bonuses associated with non-standard earthmoving loading policies. Construction Innovation, 2018, 18, .	1.5	8
46	Cultural Difference and Conflict Management - A Vietnamese-Australian and Construction Industry Case Study. International Journal of Construction Management, 2009, 9, 1-19.	2.2	7
47	Construction contracts with conversion capability: a way forward. Journal of Financial Management of Property and Construction, 2015, 20, 132-146.	0.9	7
48	An examination of the DRET model and the influence of payload, haul grade and truck type on earthmoving emissions. International Journal of Construction Management, 2016, 16, 95-108.	2.2	7
49	Bias and decision making â€“ an overview systems explanation. Civil Engineering and Environmental Systems, 2020, 37, 48-61.	0.4	7
50	Interest rate uncertainty and investment value: a second order moment approach. Journal of Evidence-Based Medicine, 2014, 4, 176.	0.7	6
51	Adjustments within discount rates to cater for uncertaintyâ€"Guidelines. Engineering Economist, 2017, 62, 322-335.	0.3	6
52	A framework for a civil engineering systems BOK. Civil Engineering and Environmental Systems, 2020, 37, 154-165.	0.4	6
53	Organisations as systems â€“ difficulties in model development and validation. Civil Engineering and Environmental Systems, 2018, 35, 41-56.	0.4	5
54	An optimum multiple outcomes sharing model with multiple risk-averse agents. Engineering, Construction and Architectural Management, 2021, 28, 2788-2810.	1.8	5

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55	OPTIMAL SHOVEL-TRUCK OPERATIONS. Engineering Optimization, 1986, 10, 51-63.	1.5	4
56	OPTIMAL OUTCOME SHARING WITH A CONSORTIUM OF CONTRACTORS. Journal of Civil Engineering and Management, 2015, 22, 655-665.	1.9	4
57	VALUING DELIBERATE BUILT-IN FLEXIBILITY IN HOUSES â€“ EXAMPLED. International Journal of Strategic Property Management, 2018, 22, 479-488.	0.8	4
58	On the equivalence of the (E_h/M/c) and (M/M/c) finite source queues. Civil Engineering and Environmental Systems, 1987, 4, 87-93.	0.2	3
59	Risk associated with managed investment primary production projects. International Journal of Project Organisation and Management, 2011, 3, 273.	0.0	3
60	Carbon Abatement and Its Cost in Construction Activities. , 2014, , .		3
61	Estimating the Value of Built-In Flexibility in Infrastructure. , 2018, , .		3
62	Appropriate Types of Payments in Construction Contracts Based on Agency Theory Parameters. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	3
63	OPTIMAL PUSHER-SCRAPER LOADING POLICIES. Engineering Optimization, 1987, 12, 255-267.	1.5	2
64	Future-proofingâ€"Valuing Adaptability, Flexibility, Convertibility and Options. Management in the Built Environment, 2020, , .	0.2	2
65	Automatic Mass Estimation of Construction Vehicles by Modeling Operational and Engine Data. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	2
66	Intelligent Stochastic Agent-Based Model for Predicting Truck Production in Construction Sites by Considering Learning Effect. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	2
67	ConcretingÂ operationsÂâ€"Âthe relationship between unit costs and unit emissions. International Journal of Construction Management, 2019, 19, 427-435.	2.2	1
68	Author's reply to: David Elmsâ€™ discussion of â€˜Bias and decision making â€“ an overview systems explanationâ€™. Civil Engineering and Environmental Systems, 2020, 37, 146-148.	0.4	1
69	Project Deliveryâ€"PPP Guarantees. Management in the Built Environment, 2020, , 77-97.	0.2	1
70	Comments on Delay Analysis Methods in Resolving Construction Claims. International Journal of Construction Management, 2009, 9, 1-12.	2.2	0
71	Australian Construction Growth Ratios: Industry and Company Analyses. International Journal of Construction Management, 2010, 10, 23-43.	2.2	0
72	Adaptable Buildings and Houses. Management in the Built Environment, 2020, , 61-75.	0.2	0

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73	A Common and General Formulation. Management in the Built Environment, 2020, , 13-29.	0.2	0
74	Project Deliveryâ€"PPP Concession Periods. Management in the Built Environment, 2020, , 99-113.	0.2	0
75	Project Deliveryâ€"CDM Projects. Management in the Built Environment, 2020, , 115-130.	0.2	0
76	An Alternative Valuation of Energy Options for Atypical Markets. , 2020, , 579-594.		0
77	BOK and terminology. Civil Engineering and Environmental Systems, 2021, 38, 257-258.	0.4	0
78	Author's reply to: David Blockley's discussion of the special issue. Civil Engineering and Environmental Systems, 2021, 38, 250-250.	0.4	0
79	Authorâ€™s reply to: David Elmsâ€™ discussion of â€˜a framework for a civil engineering BOKâ€™. Civil Engineering and Environmental Systems, 2021, 38, 276-278.	0.4	0
80	At one with systems. Civil Engineering and Environmental Systems, 2021, 38, 265-268.	0.4	0