

David G Carmichael

List of Publications by Year in descending order

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Version: 2024-02-01

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	Labour productivity in Australian building construction projects: a roadmap for improvement. International Journal of Construction Management, 2022, 22, 2079-2088.	2.2	12
2	Appropriate Types of Payments in Construction Contracts Based on Agency Theory Parameters. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	3
3	Automatic Mass Estimation of Construction Vehicles by Modeling Operational and Engine Data. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	2
4	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
5	Resilience and Systemsâ€™A Review. Sustainability, 2022, 14, 8327.	1.6	11
6	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
7	An optimum multiple outcomes sharing model with multiple risk-averse agents. Engineering, Construction and Architectural Management, 2021, 28, 2788-2810.	1.8	5
8	BOK and terminology. Civil Engineering and Environmental Systems, 2021, 38, 257-258.	0.4	0
9	Author's reply to: David Blockley's discussion of the special issue. Civil Engineering and Environmental Systems, 2021, 38, 250-250.	0.4	0
10	Author's reply to: David Elms's discussion of "a framework for a civil engineering BOK". Civil Engineering and Environmental Systems, 2021, 38, 276-278.	0.4	0
11	At one with systems. Civil Engineering and Environmental Systems, 2021, 38, 265-268.	0.4	0
12	Future-proofingâ€™Valuing Adaptability, Flexibility, Convertibility and Options. Management in the Built Environment, 2020, , .	0.2	2
13	Author's reply to: David Elms's discussion of "Bias and decision making" an overview systems explanationâ€™. Civil Engineering and Environmental Systems, 2020, 37, 146-148.	0.4	1
14	ANN-based prediction intervals to forecast labour productivity. Engineering, Construction and Architectural Management, 2020, 27, 2335-2351.	1.8	16
15	A framework for a civil engineering systems BOK. Civil Engineering and Environmental Systems, 2020, 37, 154-165.	0.4	6
16	Bias and decision making "an overview systems explanation. Civil Engineering and Environmental Systems, 2020, 37, 48-61.	0.4	7
17	Optimum Outcome-Sharing Construction Contracts with Multiagent and Multioutcome Arrangements. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020067.	2.0	11
18	Project Deliveryâ€™PPP Guarantees. Management in the Built Environment, 2020, , 77-97.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Adaptable Buildings and Houses. Management in the Built Environment, 2020, , 61-75.	0.2	0
20	A Common and General Formulation. Management in the Built Environment, 2020, , 13-29.	0.2	0
21	Project Deliveryâ€™PPP Concession Periods. Management in the Built Environment, 2020, , 99-113.	0.2	0
22	Project Deliveryâ€™CDM Projects. Management in the Built Environment, 2020, , 115-130.	0.2	0
23	An Alternative Valuation of Energy Options for Atypical Markets. , 2020, , 579-594.		0
24	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
25	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
26	Single Treatment of PPP Road Project Options. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	9
27	The relationship between heavy equipment cost efficiency and cleaner production in construction. Journal of Cleaner Production, 2019, 211, 521-529.	4.6	12
28	Concreting operationsâ€™the relationship between unit costs and unit emissions. International Journal of Construction Management, 2019, 19, 427-435.	2.2	1
29	Emissions and production penalties/bonuses associated with non-standard earthmoving loading policies. Construction Innovation, 2018, 18, .	1.5	8
30	Uncertainties related to financial variables within infrastructure life cycle costing: a literature review. Structure and Infrastructure Engineering, 2018, 14, 1233-1243.	2.0	14
31	Organisations as systems â€™ difficulties in model development and validation. Civil Engineering and Environmental Systems, 2018, 35, 41-56.	0.4	5
32	Estimating the Value of Built-In Flexibility in Infrastructure. , 2018, , .		3
33	A utility measure of attitudes to lower-emissions production in construction. Journal of Cleaner Production, 2018, 202, 23-32.	4.6	13
34	VALUING DELIBERATE BUILT-IN FLEXIBILITY IN HOUSES â€™ EXAMPLED. International Journal of Strategic Property Management, 2018, 22, 479-488.	0.8	4
35	Adjustments within discount rates to cater for uncertaintyâ€™Guidelines. Engineering Economist, 2017, 62, 322-335.	0.3	6
36	A cash flow view of real options. Engineering Economist, 2016, 61, 265-288.	0.3	18

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37	An examination of the DRET model and the influence of payload, haul grade and truck type on earthmoving emissions. <i>International Journal of Construction Management</i> , 2016, 16, 95-108.	2.2	7
38	A proposed framework for assessing the sustainability of infrastructure. <i>International Journal of Construction Management</i> , 2016, 16, 281-298.	2.2	19
39	Emission and cost effects of training for construction equipment operators. <i>Smart and Sustainable Built Environment</i> , 2016, 5, 96-110.	2.2	11
40	Risk – a commentary. <i>Civil Engineering and Environmental Systems</i> , 2016, 33, 177-198.	0.4	24
41	The impact of ESG disclosures and institutional ownership on market information asymmetry. <i>Asia-Pacific Journal of Accounting and Economics</i> , 2016, 23, 432-448.	0.7	51
42	The financial additionality and viability of CDM projects allowing for uncertainty. <i>Environment, Development and Sustainability</i> , 2016, 18, 129-141.	2.7	12
43	Measuring project sustainability maturity level - a fuzzy-based approach. <i>International Journal of Sustainable Development</i> , 2016, 19, 76.	0.1	16
44	OPTIMAL OUTCOME SHARING WITH A CONSORTIUM OF CONTRACTORS. <i>Journal of Civil Engineering and Management</i> , 2015, 22, 655-665.	1.9	4
45	Improving the attractiveness of CDM projects through allowing and incorporating options. <i>Energy Policy</i> , 2015, 86, 784-791.	4.2	12
46	Construction contracts with conversion capability: a way forward. <i>Journal of Financial Management of Property and Construction</i> , 2015, 20, 132-146.	0.9	7
47	Incorporating resilience through adaptability and flexibility. <i>Civil Engineering and Environmental Systems</i> , 2015, 32, 31-43.	0.4	18
48	A Note on Equivalent Fixed Rate and Variable Rate Loans; Borrower's Perspective. <i>Engineering Economist</i> , 2015, 60, 155-162.	0.3	9
49	Optimum scraper load time and fleet size for minimum emissions. <i>International Journal of Construction Management</i> , 2014, 14, 209-226.	2.2	9
50	An optimal target cost contract with a risk neutral owner. <i>Engineering, Construction and Architectural Management</i> , 2014, 21, 586-604.	1.8	13
51	Optimal sharing arrangement for multiple project outcomes. <i>Journal of Financial Management of Property and Construction</i> , 2014, 19, 264-280.	0.9	13
52	Truck dispatching and minimum emissions earthmoving. <i>Smart and Sustainable Built Environment</i> , 2014, 3, 170-186.	2.2	14
53	Surface mining operations: coincident unit cost and emissions. <i>International Journal of Mining, Reclamation and Environment</i> , 2014, 28, 47-65.	1.2	29
54	Carbon Abatement and Its Cost in Construction Activities. , 2014, , .		3

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55	Interest rate uncertainty and investment value: a second order moment approach. Journal of Evidence-Based Medicine, 2014, 4, 176.	0.7	6
56	Optimal Incentive Contract with Risk-Neutral Contractor. Journal of Construction Engineering and Management - ASCE, 2013, 139, 899-909.	2.0	39
57	A review of building/infrastructure sustainability reporting tools (SRTs). Smart and Sustainable Built Environment, 2013, 2, 106-139.	2.2	77
58	The relationship between sustainability practices and financial performance of construction companies. Smart and Sustainable Built Environment, 2013, 2, 6-27.	2.2	70
59	The conceptual power of control systems theory in engineering practice. Civil Engineering and Environmental Systems, 2013, 30, 231-242.	0.4	13
60	A contractor's classification of owner payment practices. Engineering, Construction and Architectural Management, 2013, 20, 29-45.	1.8	8
61	Minimum Operational Emissions in Earthmoving. , 2012, , .		14
62	Performance Risk Associated with Renewable Energy CDM Projects. Journal of Management in Engineering - ASCE, 2012, 28, 51-58.	2.6	11
63	An Alternative Approach to Capital Investment Appraisal. Engineering Economist, 2011, 56, 123-139.	0.3	22
64	Risk associated with managed investment primary production projects. International Journal of Project Organisation and Management, 2011, 3, 273.	0.0	3
65	Australian Construction Growth Ratios: Industry and Company Analyses. International Journal of Construction Management, 2010, 10, 23-43.	2.2	0
66	Comparative performance of publicly listed construction companies: Australian evidence. Construction Management and Economics, 2010, 28, 919-932.	1.8	31
67	A Study of Correlation Aspects in Probabilistic NPV Analysis. Engineering Economist, 2010, 55, 181-199.	0.3	12
68	Comments on Delay Analysis Methods in Resolving Construction Claims. International Journal of Construction Management, 2009, 9, 1-12.	2.2	0
69	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
70	Probabilistic DCF Analysis and Capital Budgeting and Investmentâ€™a Survey. Engineering Economist, 2008, 53, 84-102.	0.3	37
71	The influence of extra projects on overall investment feasibility. Journal of Financial Management of Property and Construction, 2008, 13, 161-175.	0.9	9
72	A refined queueing model for earthmoving operations. Civil Engineering and Environmental Systems, 1987, 4, 153-159.	0.2	8

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73	OPTIMAL PUSHER-SCRAPER LOADING POLICIES. <i>Engineering Optimization</i> , 1987, 12, 255-267.	1.5	2
74	On the equivalence of the (<i>E_hM_c</i>) and (<i>M_cM_c</i>) finite source queues. <i>Civil Engineering and Environmental Systems</i> , 1987, 4, 87-93.	0.2	3
75	Shovel truck queues: a reconciliation of theory and practice. <i>Construction Management and Economics</i> , 1986, 4, 161-177.	1.8	14
76	OPTIMAL SHOVEL-TRUCK OPERATIONS. <i>Engineering Optimization</i> , 1986, 10, 51-63.	1.5	4
77	Eriang loading models in earthmoving. <i>Civil Engineering and Environmental Systems</i> , 1986, 3, 118-124.	0.2	11
78	Problem Solving for Engineers. , 0, , .		25
79	Infrastructure Investment. , 0, , .		24
80	Project Planning, and Control. , 0, , .		34