

Eul-Bum Lee

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

591
citations

12
h-index

21
g-index

62
ext. papers

710
ext. citations

3.4
avg, IF

4.37
L-index

#	Paper	IF	Citations
60	AI and Text-Mining Applications for Analyzing Contractor's Risk in Invitation to Bid (ITB) and Contracts for Engineering Procurement and Construction (EPC) Projects. <i>Energies</i> , 2021 , 14, 4632	3.1	6
59	The Engineering Machine-Learning Automation Platform (EMAP): A Big-Data-Driven AI Tool for Contractors's Sustainable Management Solutions for Plant Projects. <i>Sustainability</i> , 2021 , 13, 10384	3.6	7
58	A Digitalized Design Risk Analysis Tool with Machine-Learning Algorithm for EPC Contractor's Technical Specifications Assessment on Bidding. <i>Energies</i> , 2021 , 14, 5901	3.1	1
57	Performance evaluation of normalization-based CBR models for improving construction cost estimation. <i>Automation in Construction</i> , 2020 , 119, 103329	9.6	14
56	Smart-Tracking Systems Development with QR-Code and 4D-BIM for Progress Monitoring of a Steel-Plant Blast-Furnace Revamping Project in Korea. <i>Ecoproduction</i> , 2020 , 161-173	0.5	
55	INTEGRATING CA4PRS V.3 ROAD WIDENING SCHEDULE MODULE INTO US HIGHWAY EARLY CONSTRUCTABILITY PROCESS: CALIFORNIA SR-91 CORRIDOR IMPROVEMENT PROGRAM CASE STUDY. <i>Transport</i> , 2020 , 35, 1-19	1.4	
54	Mitigating the legal challenges of imposing disincentives on nonperforming transportation projects. <i>Engineering, Construction and Architectural Management</i> , 2020 , 27, 2859-2891	3.1	0
53	Using Text Mining to Estimate Schedule Delay Risk of 13 Offshore Oil and Gas EPC Case Studies During the Bidding Process. <i>Energies</i> , 2019 , 12, 1956	3.1	9
52	Geographic Information System-Based Framework for Estimating and Visualizing Unit Prices of Highway Work Items. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019044	4.2	5
51	Reducing the Superheating of Extraction Stream on Advanced-Ultra Super Critical Power Plants with Regenerative Turbines in South Korea: An Economic Analysis. <i>Energies</i> , 2019 , 12, 1681	3.1	1
50	Reducing Voltage Volatility with Step Voltage Regulators: A Life-Cycle Cost Analysis of Korean Solar Photovoltaic Distributed Generation. <i>Energies</i> , 2019 , 12, 652	3.1	9
49	A Forecast and Mitigation Model of Construction Performance by Assessing Detailed Engineering Maturity at Key Milestones for Offshore EPC Mega-Projects. <i>Sustainability</i> , 2019 , 11, 1256	3.6	9
48	Onshore Oil and Gas Design Schedule Management Process Through Time-Impact Simulations Analyses. <i>Sustainability</i> , 2019 , 11, 1613	3.6	3
47	A Forecast Model for the Level of Engineering Maturity Impact on Contractor's Procurement and Construction Costs for Offshore EPC Megaprojects. <i>Energies</i> , 2019 , 12, 2295	3.1	5
46	A Digitization and Conversion Tool for Imaged Drawings to Intelligent Piping and Instrumentation Diagrams (P&ID). <i>Energies</i> , 2019 , 12, 2593	3.1	17
45	Electrical Power Characteristics and Economic Analysis of Distributed Generation System Using Renewable Energy: Applied to Iron and Steel Plants. <i>Sustainability</i> , 2019 , 11, 6199	3.6	4
44	The Efficacy of the Tolling Model's Ability to Improve Project Profitability on International Steel Plants. <i>Energies</i> , 2019 , 12, 1221	3.1	1

43	Method for Predicting Raw Material Prices for Product Production over Long Periods. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 05018017	4.2	6
42	Optimal Investment Timing with Investment Propensity Using Fuzzy Real Options Valuation. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 1888-1900	3.6	7
41	Incorporating Road User Costs into Integrated Life-Cycle Cost Analyses for Infrastructure Sustainability: A Case Study on Sr-91 Corridor Improvement Project (Ca). <i>Sustainability</i> , 2018 , 10, 179	3.6	12
40	Ensuring Efficient Incentive and Disincentive Values for Highway Construction Projects: A Systematic Approach Balancing Road User, Agency and Contractor Acceleration Costs and Savings. <i>Sustainability</i> , 2018 , 10, 701	3.6	5
39	A Probabilistic Alternative Approach to Optimal Project Profitability Based on the Value-at-Risk. <i>Sustainability</i> , 2018 , 10, 747	3.6	4
38	Balancing Project Financing and Mezzanine Project Financing with Option Value to Mitigate Sponsor's Risks for Overseas Investment Projects. <i>Sustainability</i> , 2018 , 10, 1498	3.6	3
37	Integrating a Procurement Management Process into Critical Chain Project Management (CCPM): A Case-Study on Oil and Gas Projects, the Piping Process. <i>Sustainability</i> , 2018 , 10, 1817	3.6	13
36	Detail Engineering Completion Rating Index System (DECRIS) for Optimal Initiation of Construction Works to Improve Contractors' Schedule-Cost Performance for Offshore Oil and Gas EPC Projects. <i>Sustainability</i> , 2018 , 10, 2469	3.6	9
35	A METHOD FOR ANALYZING THE EFFECT OF IMPLEMENTING AN ENTERPRISE SYSTEM BASED ON THE COMPLEXITY OF ACTIVITIES. <i>Journal of Civil Engineering and Management</i> , 2018 , 24, 526-536	3	0
34	Risk Assessment and Mitigation Model for Overseas Steel-Plant Project Investment with Analytic Hierarchy Process Fuzzy Inference System. <i>Sustainability</i> , 2018 , 10, 4780	3.6	14
33	Schedule Modeling to Estimate Typical Construction Durations and Areas of Risk for 1000 MW Ultra-Critical Coal-Fired Power Plants. <i>Energies</i> , 2018 , 11, 2850	3.1	6
32	Optimization Simulation, Using Steel Plant Off-Gas for Power Generation: A Life-Cycle Cost Analysis Approach. <i>Energies</i> , 2018 , 11, 2884	3.1	4
31	Ore Composition's Impact on Smelting Profitability: An Optimum Pricing Index Model for Long-Term Nickel Ore Feedstock Purchasing Agreements. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2100	2.6	2
30	Power Plant Economic Analysis: Maximizing Lifecycle Profitability by Simulating Preliminary Design Solutions of Steam-Cycle Conditions. <i>Energies</i> , 2018 , 11, 2245	3.1	9
29	Learning method for knowledge retention in CBR cost models. <i>Automation in Construction</i> , 2018 , 96, 65-74	9.6	7
28	Prediction method of real discount rate to improve accuracy of life-cycle cost analysis. <i>Energy and Buildings</i> , 2017 , 135, 225-232	7	13
27	Probabilistic Cash Flow-Based Optimal Investment Timing Using Two-Color Rainbow Options Valuation for Economic Sustainability Appraisalment. <i>Sustainability</i> , 2017 , 9, 1781	3.6	9
26	Automated Sequence Selection and Cost Calculation for Maintenance and Rehabilitation in Highway Life-Cycle Cost Analysis (LCCA). <i>International Journal of Transportation Science and Technology</i> , 2015 , 4, 61-75	3.3	10

25	Fatigue in Highway Construction Workers: Risks and Countermeasures in Rapid Renewal Project Schedules. <i>Transportation Research Record</i> , 2013 , 2347, 11-18	1.7	5
24	Life cycle energy consumption and GHG emission from pavement rehabilitation with different rolling resistance. <i>Journal of Cleaner Production</i> , 2012 , 33, 86-96	10.3	126
23	Value Analysis Using Performance Attributes Matrix for Highway Rehabilitation Projects: California Interstate 80 Sacramento Case. <i>Transportation Research Record</i> , 2011 , 2228, 34-43	1.7	6
22	Selection of Pavement for Highway Rehabilitation Based on Life-Cycle Cost Analysis: Validation of California Interstate 710 Project, Phase 1. <i>Transportation Research Record</i> , 2011 , 2227, 23-32	1.7	18
21	Streamlined Strategies for Faster, Less Traffic-Disruptive Highway Rehabilitation in Urban Networks. <i>Transportation Research Record</i> , 2008 , 2081, 38-45	1.7	9
20	State-of-Practice Technologies on Accelerated Urban Highway Rehabilitation: I-15 California Experience. <i>Journal of Construction Engineering and Management - ASCE</i> , 2007 , 133, 105-113	4.2	15
19	Productivity Aspects of Urban Freeway Rehabilitation with Accelerated Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2007 , 133, 798-806	4.2	10
18	CA4PRS: A Constructability Analysis Tool for Urban Highway Rehabilitation Projects 2007 , 102-116		1
17	Fast-Track Urban Freeway Rehabilitation with 55-H Weekend Closures: I-710 Long Beach Case Study. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 465-472	4.2	9
16	Implementation of Automated Travel-Time Information and Public Reaction on Urban Highway Rehabilitation. <i>Journal of Transportation Engineering</i> , 2006 , 132, 808-816		5
15	Fast-Track Construction for Concrete Pavement Rehabilitation: California Urban Highway Network. <i>Transportation Research Record</i> , 2006 , 1949, 2-10	1.7	3
14	Integrated Design/Construction/Operations Analysis for Fast-Track Urban Freeway Reconstruction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 1283-1291	4.2	8
13	Accelerated Pavement Rehabilitation and Reconstruction with Long-Life Asphalt Concrete on High-Traffic Urban Highways. <i>Transportation Research Record</i> , 2005 , 1905, 56-64	1.7	4
12	Knowledge-Based Scheduling Analysis Software for Highway Rehabilitation and Reconstruction Projects. <i>Transportation Research Record</i> , 2005 , 1907, 15-24	1.7	3
11	Planning Urban Highway Reconstruction with Traffic Demand Affected by Construction Schedule. <i>Journal of Transportation Engineering</i> , 2005 , 131, 752-761		11
10	Accelerated Pavement Rehabilitation on Urban Highways: Innovative Approach in California 2005 , 1		
9	Minimizing Total Cost for Urban Freeway Reconstruction with Integrated Construction/Traffic Analysis. <i>Journal of Infrastructure Systems</i> , 2005 , 11, 250-257	2.9	19
8	Computer Simulation Model: Construction Analysis for Pavement Rehabilitation Strategies. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 449-458	4.2	35

7	Case Study of Urban Concrete Pavement Reconstruction on Interstate 10. <i>Journal of Construction Engineering and Management - ASCE</i> , 2002 , 128, 49-56	4.2	16
6	Construction Productivity Analysis for Asphalt Concrete Pavement Rehabilitation in Urban Corridors. <i>Transportation Research Record</i> , 2002 , 1813, 285-294	1.7	7
5	Calcool: A multi-layer Asphalt Pavement Cooling Tool for Temperature Prediction During Construction. <i>International Journal of Pavement Engineering</i> , 2001 , 2, 169-185	2.6	36
4	Construction Productivity and Constraints for Concrete Pavement Rehabilitation in Urban Corridors. <i>Transportation Research Record</i> , 2000 , 1712, 13-22	1.7	11
3	Accelerated Pavement Rehabilitation and Reconstruction with Long-Life Asphalt Concrete on High-Traffic Urban Highways		2
2	Knowledge-Based Scheduling Analysis Software for Highway Rehabilitation and Reconstruction Projects		2
1	Automated Work Zone Information System on Urban Freeway Rehabilitation: California Implementation		6