Omer Tatari

List of Publications by Year
in descending order

72 papers	4,494 citations	66343 42 h-index	102487 66 g-index
72 all docs	72 docs citations	72 times ranked	3891 citing authors

#	Article	IF	Citations
1	Conventional, hybrid, plug-in hybrid or electric vehicles? State-based comparative carbon and energy footprint analysis in the United States. Applied Energy, 2015, 150, 36-49.	10.1	275
2	Scope-based carbon footprint analysis of U.S. residential and commercial buildings: An input–output hybrid life cycle assessment approach. Building and Environment, 2014, 72, 53-62.	6.9	188
3	Sustainability assessment of U.S. manufacturing sectors: an economic input output-based frontier approach. Journal of Cleaner Production, 2013, 53, 91-102.	9.3	171
4	Does a battery-electric truck make a difference? – Life cycle emissions, costs, and externality analysis of alternative fuel-powered Class 8 heavy-duty trucks in the United States. Journal of Cleaner Production, 2017, 141, 110-121.	9.3	141
5	Integrating triple bottom line input–output analysis into life cycle sustainability assessment framework: the case for US buildings. International Journal of Life Cycle Assessment, 2014, 19, 1488-1505.	4.7	139
6	Supply chain sustainability assessment of the U.S. food manufacturing sectors: A life cycle-based frontier approach. Resources, Conservation and Recycling, 2014, 82, 8-20.	10.8	137
7	Application of the TOPSIS and intuitionistic fuzzy set approaches for ranking the life cycle sustainability performance of alternative vehicle technologies. Sustainable Production and Consumption, 2016, 6, 12-25.	11.0	130
8	Towards greening the U.S. residential building stock: A system dynamics approach. Building and Environment, 2014, 78, 68-80.	6.9	121
9	Towards a triple bottom-line sustainability assessment of the U.S. construction industry. International Journal of Life Cycle Assessment, 2013, 18, 958-972.	4.7	118
10	Integration of system dynamics approach toward deepening and broadening the life cycle sustainability assessment framework: a case for electric vehicles. International Journal of Life Cycle Assessment, 2016, 21, 1009-1034.	4.7	115
11	Towards Life Cycle Sustainability Assessment of Alternative Passenger Vehicles. Sustainability, 2014, 6, 9305-9342.	3.2	109
12	Cost premium prediction of certified green buildings: A neural network approach. Building and Environment, 2011, 46, 1081-1086.	6.9	100
13	Combined application of multi-criteria optimization and life-cycle sustainability assessment for optimal distribution of alternative passenger cars in U.S.. Journal of Cleaner Production, 2016, 112, 291-307.	9.3	99
14	Electric vehicle cost, emissions, and water footprint in the United States: Development of a regional optimization model. Energy, 2015, 89, 610-625.	8.8	97
15	Development of an agent-based model for regional market penetration projections of electric vehicles in the United States. Energy, 2016, 96, 215-230.	8.8	97
16	Investigating carbon footprint reduction potential of public transportation in United States: A system dynamics approach. Journal of Cleaner Production, 2016, 133, 1260-1276.	9.3	96
17	Light-duty electric vehicles to improve the integrity of the electricity grid through Vehicle-to-Grid technology: Analysis of regional net revenue and emissions savings. Applied Energy, 2016, 168, 146-158.	10.1	95
18	Ranking the sustainability performance of pavements: An intuitionistic fuzzy decision making method. Automation in Construction, 2014, 40, 33-43.	9.8	93

#	Article	IF	Citations
19	A fuzzy data envelopment analysis framework for dealing with uncertainty impacts of input–output life cycle assessment models on eco-efficiency assessment. Journal of Cleaner Production, 2016, 129, 622-636.	9.3	89
20	Carbon and energy footprints of electric delivery trucks: A hybrid multi-regional input-output life cycle assessment. Transportation Research, Part D: Transport and Environment, 2016, 47, 195-207.	6.8	87
21	Sustainability assessment of U.S. final consumption and investments: triple-bottom-line input–output analysis. Journal of Cleaner Production, 2014, 81, 234-243.	9.3	86
22	Getting to net zero energy building: Investigating the role of vehicle to home technology. Energy and Buildings, 2016, 130, 465-476.	6.7	86
23	Stochastic decision modeling for sustainable pavement designs. International Journal of Life Cycle Assessment, 2014, 19, 1185-1199.	4.7	84
24	Eco-Efficiency of Construction Materials: Data Envelopment Analysis. Journal of Construction Engineering and Management - ASCE, 2012, 138, 733-741.	3.8	71
25	Exploring the suitability of electric vehicles in the United States. Energy, 2017, 121, 631-642.	8.8	71
26	Evaluating environmental impacts of alternative construction waste management approaches using supply-chain-linked life-cycle analysis. Waste Management and Research, 2014, 32, 500-508.	3.9	70
27	Intuitionistic fuzzy multi-criteria decision making framework based on life cycle environmental, economic and social impacts: The case of U.S. wind energy. Sustainable Production and Consumption, 2016, 8, 78-92.	11.0	70
28	Uncertainty-embedded dynamic life cycle sustainability assessment framework: An ex-ante perspective on the impacts of alternative vehicle options. Energy, 2016, 112, 715-728.	8.8	68
29	Comparative sustainability assessment of warm-mix asphalts: A thermodynamic based hybrid life cycle analysis. Resources, Conservation and Recycling, 2012, 58, 18-24.	10.8	65
30	Vehicle to Grid regulation services of electric delivery trucks: Economic and environmental benefit analysis. Applied Energy, 2016, 170, 161-175.	10.1	64
31	A hybrid life cycle assessment of public transportation buses with alternative fuel options. International Journal of Life Cycle Assessment, 2015, 20, 1213-1231.	4.7	61
32	Optimization of transit bus fleet's life cycle assessment impacts with alternative fuel options. Energy, 2015, 93, 323-334.	8.8	59
33	Economic Input–Output Based Sustainability Analysis of Onshore and Offshore Wind Energy Systems. International Journal of Green Energy, 2015, 12, 939-948.	3.8	59
34	A comprehensive life cycle analysis of cofiring algae in a coal power plant as a solution for achieving sustainable energy. Energy, 2011, 36, 6352-6357.	8.8	55
35	A dynamic modeling approach to highway sustainability: Strategies to reduce overall impact. Transportation Research, Part A: Policy and Practice, 2012, 46, 1086-1096.	4.2	55
36	Life Cycle Assessment and Optimization-Based Decision Analysis of Construction Waste Recycling for a LEED-Certified University Building. Sustainability, 2016, 8, 89.	3.2	54

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37	Will Corporate Average Fuel Economy (CAFE) Standard help? Modeling CAFE's impact on market share of electric vehicles. Energy Policy, 2017, 109, 279-287.	8.8	54
38	Material footprint of electric vehicles: A multiregional life cycle assessment. Journal of Cleaner Production, 2019, 209, 1033-1043.	9.3	54
39	Evaluating the use of neural networks and genetic algorithms for prediction of subgrade resilient modulus. International Journal of Pavement Engineering, 2013, 14, 364-373.	4.4	50
40	Ecologically based hybrid life cycle analysis of continuously reinforced concrete and hot-mix asphalt pavements. Transportation Research, Part D: Transport and Environment, 2012, 17, 86-90.	6.8	46
41	Assessing regional and global environmental footprints and value added of the largest food producers in the world. Resources, Conservation and Recycling, 2019, 144, 187-197.	10.8	46
42	A macro-level decision analysis of wind power as a solution for sustainable energy in the USA. International Journal of Sustainable Energy, 2015, 34, 629-644.	2.4	45
43	Well-to-wheel water footprints of conventional versus electric vehicles in the United States: A state-based comparative analysis. Journal of Cleaner Production, 2018, 204, 788-802.	9.3	39
44	Water and carbon footprint reduction potential of renewable energy in the United States: A policy analysis using system dynamics. Journal of Cleaner Production, 2019, 228, 910-926.	9.3	39
45	BIM-based Damage Estimation of Buildings under Earthquake Loading Condition. Procedia Engineering, 2016, 145, 1051-1058.	1.2	38
46	Public transportation adoption requires a paradigm shift in urban development structure. Journal of Cleaner Production, 2017, 142, 1789-1799.	9.3	36
47	Modeling the effect of electric vehicle adoption on pedestrian traffic safety: An agent-based approach. Transportation Research Part C: Emerging Technologies, 2018, 93, 198-210.	7.6	35
48	Selection of heavy machinery for earthwork activities: A multi-objective optimization approach using a genetic algorithm. AEJ - Alexandria Engineering Journal, 2022, 61, 7555-7569.	6.4	34
49	Sustainability Assessment of U.S. Construction Sectors: Ecosystems Perspective. Journal of Construction Engineering and Management - ASCE, 2012, 138, 918-922.	3.8	31
50	Comparative life cycle assessment of sport utility vehicles with different fuel options. International Journal of Life Cycle Assessment, 2018, 23, 333-347.	4.7	31
51	The Climate Change-Road Safety-Economy Nexus: A System Dynamics Approach to Understanding Complex Interdependencies. Systems, 2017, 5, 6.	2.3	28
52	A hybrid life cycle assessment of the vehicle-to-grid application in light duty commercial fleet. Energy, 2015, 93, 1277-1286.	8.8	27
53	Boosting the adoption and the reliability of renewable energy sources: Mitigating the large-scale wind power intermittency through vehicle to grid technology. Energy, 2017, 120, 608-618.	8.8	27
54	Performance Evaluation of Construction Enterprise Resource Planning Systems. Journal of Management in Engineering - ASCE, 2008, 24, 198-206.	4.8	26

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55	Life cycle sustainability assessment of autonomous heavyâ€duty trucks. Journal of Industrial Ecology, 2020, 24, 149-164.	5.5	26
56	A stochastic optimization approach for the selection of reflective cracking mitigation techniques. Transportation Research, Part A: Policy and Practice, 2014, 69, 367-378.	4.2	20
57	Multiobjective and multivariable optimization for earthmoving equipment. Journal of Facilities Management, 2024, 22, 21-48.	1.8	20
58	On the Front Lines of a Sustainable Transportation Fleet: Applications of Vehicle-to-Grid Technology for Transit and School Buses. Energies, 2016, 9, 230.	3.1	19
59	Life cycle based multi-criteria optimization for optimal allocation of commercial delivery truck fleet in the United States. Sustainable Production and Consumption, 2016, 8, 18-31.	11.0	18
60	Neural Network Approach to Condition Assessment of Highway Culverts: Case Study in Ohio. Journal of Infrastructure Systems, 2013, 19, 409-414.	1.8	17
61	Evaluation of Conditional Transit Signal Priority Technology for Regional Implementation. Transportation Research Record, 2015, 2484, 140-148.	1.9	17
62	Sustainability Metrics for Performance-Based Seismic Bridge Response. Journal of Structural Engineering, 2016, 142, .	3.4	17
63	Carbon and energy footprints of refuse collection trucks: A hybrid life cycle evaluation. Sustainable Production and Consumption, 2017, 12, 180-192.	11.0	16
64	Robust Pareto optimal approach to sustainable heavy-duty truck fleet composition. Resources, Conservation and Recycling, 2019, 146, 502-513.	10.8	15
65	An optimum selection strategy of reflective cracking mitigation methods for an asphalt concrete overlay over flexible pavements. International Journal of Pavement Engineering, 2018, 19, 48-61.	4.4	11
66	Dynamic techno-ecological modeling of highway systems: a case study of the Shin-Meishin Expressway in Japan. Journal of Cleaner Production, 2016, 115, 101-121.	9.3	10
67	Congestion Relief Based on Intelligent Transportation Systems in Florida. Transportation Research Record, 2013, 2380, 81-89.	1.9	8
68	A system dynamics analysis of the alternative roofing market and its potential impacts on urban environmental problems: A case study in Orlando, Florida. Resources, Conservation and Recycling, 2020, 153, 104556.	10.8	7
69	Smart Event Traffic Management. Transportation Research Record, 2013, 2396, 107-116.	1.9	5
70	Life-Cycle Carbon, Energy, and Cost Analysis of Utilizing Municipal Solid Waste Bottom Ash and Recycled Asphalt Shingle in Hot-Mix Asphalt. , 2017, , .		5
71	Sustainability assessment of highways: A Malmquist index of U.S. states. , 2011, , .		2
72	Carbon Footprint: Liquefaction Effects on a Private Residence. , 2016, , .		0