John A Gambatese

List of Publications by Year
in descending order

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93 papers	3,831 citations	147566 31 h-index	128067 60 g-index
93 all docs	93 docs citations	93 times ranked	2045 citing authors

#	Article	IF	Citations
1	Musculoskeletal Disorders in Concrete Formwork Construction. , 2022, , .		0
2	Investigating Hazards and Safety Risks Inherent in Human-Robot Interactions. , 2022, , .		1
3	Formal Prevention through Design Process and Implementation for Mechanical, Electrical, and Plumbing Worker Safety. Journal of Management in Engineering - ASCE, 2022, 38, .	2.6	3
4	Identifying Pertinent Indicators for Assessing and Fostering Diversity, Equity, and Inclusion of the Construction Workforce. Journal of Management in Engineering - ASCE, 2021, 37, .	2.6	38
5	Effects of Flashing Blue Lights Mounted on Paving Equipment on Vehicle Speed Behavior in Work Zones. Journal of Construction Engineering and Management - ASCE, 2021, 147, 04021101.	2.0	2
6	Scenarios for Integrating IPSâ€"IMU System with BIM Technology in Construction Safety Control. Practice Periodical on Structural Design and Construction, 2020, 25, .	0.7	19
7	Improving construction work zone safety using technology: A systematic review of applicable technologies. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 61-75.	2.0	25
8	Revisiting Lorent and Szymberski: Evaluating how research in prevention through design is interpreted and cited. Safety Science, 2020, 131, 104927.	2.6	8
9	Contractual Guidelines for Construction Safetyâ€"Related Issues under Designâ€"Build Standard Forms of Contract. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020074.	2.0	15
10	Case Study to Evaluate Work-Zone Safety Technologies in Highway Construction. Practice Periodical on Structural Design and Construction, 2020, 25, 05020004.	0.7	7
11	Impact of Risk Factors on Construction Worker Safety: A Delphi Rating Study Based on Field Worker Perspective. Arabian Journal for Science and Engineering, 2020, 45, 8041-8051.	1.7	10
12	Effects of Wearable Light Systems on Safety of Highway Construction Workers. Practice Periodical on Structural Design and Construction, 2020, 25, .	0.7	12
13	Exploring the Potential of Technological Innovations for Temporary Structures: A Survey Study. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	10
14	Application of Prevention through Design (PtD) to improve the safety of solar installations on small buildings. Safety Science, 2020, 125, 104633.	2.6	18
15	Development and Application of Safety Technology Adoption Decision-Making Tool. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	31
16	Development of Assessment Tool for Workforce Sustainability. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	27
17	Construction Worker and Equipment Energy Consumption for Offsite Precast Concrete. Practice Periodical on Structural Design and Construction, 2020, 25, .	0.7	4
18	Holistic Approach to Resilience of Steel-Frame Construction in Fire. Practice Periodical on Structural Design and Construction, 2019, 24, 04019020.	0.7	2

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19	Using 4D BIM to assess construction risks during the design phase. Engineering, Construction and Architectural Management, 2019, 26, 2637-2654.	1.8	57
20	What Do Construction Workers Really Want? A Study about Representation, Importance, and Perception of US Construction Occupational Rewards. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	35
21	Influential safety technology adoption predictors in construction. Engineering, Construction and Architectural Management, 2019, 26, 2655-2681.	1.8	42
22	Using the Risk Target Concept to Investigate Construction Workersâ€™ Potential Biases in Assigning/Assuming Safety Risk. , 2018, , .		2
23	Theoretical Framework for Improving the Adoption of Safety Technology in the Construction Industry. , 2018, , .		1
24	Applications of Resilience Systems in Construction Safety. , 2018, , .		0
25	Improving Safety in Solar Installations through Prevention through Design. , 2018, , .		2
26	Hazards and Risk in Construction and the Impact of Incentives and Rewards on Safety Outcomes. Practice Periodical on Structural Design and Construction, 2018, 23, .	0.7	16
27	Developing a Decision-Making Framework to Select Safety Technologies for Highway Construction. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	43
28	Measuring and Evaluating Safety Maturity of Construction Contractors: Multicriteria Decision-Making Approach. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	48
29	Illumination and Visibility of Workers in Nighttime Highway Work Zones. , 2018, , .		1
30	Risk Perception Comparison among Construction Safety Professionals: Delphi Perspective. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	40
31	Energy Consumption by Construction Workers for On-Site Activities. , 2018, , .		2
32	Feasibility of using QR Codes in Highway Construction Document Management. Transportation Research Record, 2018, 2672, 114-123.	1.0	3
33	Ownersâ€™ Role in Facilitating Prevention through Design. Journal of Professional Issues in Engineering Education and Practice, 2017, 143, .	0.9	35
34	Identification, Quantification, and Classification of Potential Safety Risk for Sustainable Construction in the United States. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	36
35	Owner Perceptions of Barriers to Prevention through Design Diffusion. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	23
36	Precursors of Construction Fatalities. I: Iterative Experiment to Test the Predictive Validity of Human Judgment. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	17

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37	Precursors of Construction Fatalities. II: Predictive Modeling and Empirical Validation. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	22
38	Influence of Truck-Mounted Radar Speed Signs in Controlling Vehicle Speed for Mobile Maintenance Operations: Oregon Case Study. Transportation Research Record, 2017, 2617, 19-26.	1.0	10
39	Energy-based safety risk assessment: does magnitude and intensity of energy predict injury severity?. Construction Management and Economics, 2017, 35, 64-77.	1.8	31
40	Integrating Worker Health and Safety into Sustainable Design and Construction: Designer and Constructor Perspectives. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	42
41	Highway Construction Work-Zone Safety: Effectiveness of Traffic-Control Devices. Practice Periodical on Structural Design and Construction, 2017, 22, .	0.7	6
42	Motivation for Prevention through Design: Experiential Perspectives and Practice. Practice Periodical on Structural Design and Construction, 2017, 22, .	0.7	20
43	Safety Innovation and Integration in High-Performance Designs: Benefits, Motivations, and Obstacles. Practice Periodical on Structural Design and Construction, 2017, 22, .	0.7	8
44	Alignment between Lean Principles and Practices and Worker Safety Behavior. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	33
45	Why Do Construction Hazards Remain Unrecognized at the Work Interface?. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	69
46	Opportunities for Using Building Information Modeling to Improve Worker Safety Performance. Safety, 2017, 3, 7.	0.9	20
47	Impact of Advisory Signs on Vehicle Speeds in Highway Nighttime Paving Project Work Zones. Transportation Research Record, 2016, 2555, 65-71.	1.0	3
48	Lean Practices and Safety Performance. , 2016, , .		2
49	Role of BIM and 3D Laser Scanning on Job sites from the Perspective of Construction Project Management Personnel. , 2016, , .		6
50	Perceptions of the Influence of Personal Demographic Factors on the Safety Performance of Field Employees. , 2016, , .		2
51	Degrees of connectivity: Systems model for upstream risk assessment and mitigation. Accident Analysis and Prevention, 2016, 93, 251-259.	3.0	19
52	Impacts of Construction Work Zone Equipment and Operations on Vehicle Speeds. , 2016, , .		1
53	Direction for Generating Interest for Design for Construction Worker Safetyâ€"A Delphi Study. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	34
54	Quantification and Assessment of Safety Risk in the Design of Multistory Buildings. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	2.0	32

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55	Mapped Workflow for Safety and Reliability Assessments of Use and Reuse of Formwork. , 2014, , .		6
56	Safety risk assessment for vertical concrete formwork activities in civil engineering construction. Work, 2014, 49, 183-192.	0.6	16
57	Impact of Design and Construction on Quality, Consistency, and Safety of Traffic Control Plans. Transportation Research Record, 2014, 2458, 47-55.	1.0	2
58	Evaluation of a Mobile Work Zone Barrier System. , 2014, , .		3
59	Risk and Financial Impacts of Prevention through Design Solutions. Practice Periodical on Structural Design and Construction, 2013, 18, 67-72.	0.7	21
60	Flagger Illumination during Nighttime Construction and Maintenance Operations. Journal of Construction Engineering and Management - ASCE, 2012, 138, 250-257.	2.0	3
61	Enabling and measuring innovation in the construction industry. Construction Management and Economics, 2011, 29, 553-567.	1.8	120
62	Factors that influence the development and diffusion of technical innovations in the construction industry. Construction Management and Economics, 2011, 29, 507-517.	1.8	94
63	Assessment of Nighttime Flagger-Illumination Practices. Practice Periodical on Structural Design and Construction, 2011, 16, 95-105.	0.7	1
64	Population and Initial Validation of a Formal Model for Construction Safety Risk Management. Journal of Construction Engineering and Management - ASCE, 2010, 136, 981-990.	2.0	42
65	Qualitative Research: Application of the Delphi Method to CEM Research. Journal of Construction Engineering and Management - ASCE, 2010, 136, 99-107.	2.0	553
66	Development and Initial Validation of Sustainable Construction Safety and Health Rating System. Journal of Construction Engineering and Management - ASCE, 2009, 135, 1067-1075.	2.0	109
67	Activity-Based Safety Risk Quantification for Concrete Formwork Construction. Journal of Construction Engineering and Management - ASCE, 2009, 135, 990-998.	2.0	132
68	Impact of Green Building Design and Construction on Worker Safety and Health. Journal of Construction Engineering and Management - ASCE, 2009, 135, 1058-1066.	2.0	86
69	Construction Safety Risk Mitigation. Journal of Construction Engineering and Management - ASCE, 2009, 135, 1316-1323.	2.0	192
70	Research Issues in Prevention through Design. Journal of Safety Research, 2008, 39, 153-156.	1.7	46
71	The Trajectories of Prevention through Design in Construction. Journal of Safety Research, 2008, 39, 225-230.	1.7	119
72	Designâ€™s role in construction accident causality and prevention: Perspectives from an expert panel. Safety Science, 2008, 46, 675-691.	2.6	203

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73	Constructability as a Project Lifecycle Property. , 2007, , 26-37.		0
74	Solid Waste Generation in Asphalt and Reinforced Concrete Roadway Life Cycles. Journal of Infrastructure Systems, 2007, 13, 88-96.	1.0	35
75	Constructability State of Practice Report. Journal of Construction Engineering and Management - ASCE, 2006, 132, 373-383.	2.0	38
76	Assessing State Transportation Agency Constructability Implementation. Journal of Construction Engineering and Management - ASCE, 2005, 131, 569-578.	2.0	10
77	Energy Consumption of Asphalt and Reinforced Concrete Pavement Materials and Construction. Journal of Infrastructure Systems, 2005, 11, 9-20.	1.0	205
78	Sustainable Roadway Construction: Energy Consumption and Material Waste Generation of Roadways. , 2005, , 1.		36
79	Viability of Designing for Construction Worker Safety. Journal of Construction Engineering and Management - ASCE, 2005, 131, 1029-1036.	2.0	179
80	Can Design Improve Construction Safety?: Assessing the Impact of a Collaborative Safety-in-Design Process. Journal of Construction Engineering and Management - ASCE, 2005, 131, 1125-1134.	2.0	90
81	Safety in Design: A Proactive Approach to Construction Worker Safety and Health. Journal of Occupational and Environmental Hygiene, 2003, 18, 339-342.	0.5	29
82	Controlled Concrete Demolition Using Expansive Cracking Agents. Journal of Construction Engineering and Management - ASCE, 2003, 129, 98-104.	2.0	53
83	Factors That Influence Safety Performance of Specialty Contractors. Journal of Construction Engineering and Management - ASCE, 2003, 129, 159-164.	2.0	160
84	Rebuilding the World Trade Center. Practice Periodical on Structural Design and Construction, 2003, 8, 137-145.	0.7	6
85	Designer Consideration of Project Lifecycle Performance. , 2003, , .		2
86	Engineering Mandates Stipulated in OSHA Regulations. , 2003, , 1.		6
87	Primer on Federal Occupational Safety and Health Administration Standards. Practice Periodical on Structural Design and Construction, 2002, 7, 56-60.	0.7	12
88	Dust Suppression Using Truck-Mounted Water Spray System. Journal of Construction Engineering and Management - ASCE, 2001, 127, 53-59.	2.0	24
89	Owner Involvement in Construction Site Safety. , 2000, , 661.		24
90	The Constructibility Review Process: A Constructor's Perspective. Journal of Management in Engineering - ASCE, 1999, 15, 93-94.	2.6	7

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91	Liability in Designing for Construction Worker Safety. Journal of Architectural Engineering, 1998, 4, 107-112.	0.8	37
92	Tool to Design for Construction Worker Safety. Journal of Architectural Engineering, 1997, 3, 32-41.	0.8	127
93	Constructability: A Quality Improvement Approach to Transportation Projects. Transportation Research Record, 1997, 1575, 116-120.	1.0	8