Ronald K Faller

List of Publications by Year
in descending order

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91	384	1307366 7	996849 15
papers	citations	h-index	g-index

98	98	98	161
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vehicle-to-barrier communication during real-world vehicle crash tests. Computer Communications, 2018, 127, 172-186.	3.1	37
2	Midwest Guardrail System for Standard and Special Applications. Transportation Research Record, 2004, 1890, 19-33.	1.0	34
3	Development of a New Guardrail System. Transportation Research Record, 1997, 1599, 72-80.	1.0	27
4	Impact performance of W-beam guardrail installed at various flare rates. International Journal of Impact Engineering, 2009, 36, 476-485.	2.4	21
5	Performance of Steel-Post, W-Beam Guardrail Systems. Transportation Research Record, 2007, 2025, 18-33.	1.0	19
6	Midwest Guardrail System with round Timber Posts. Transportation Research Record, 2009, 2120, 47-59.	1.0	14
7	Crash Protection of Stock Car Racing Drivers - Application of Biomechanical Analysis of Indy Car Crash Research. , 0, , .		12
8	A Primer on Vehicle-to-Barrier Communications: Effects of Roadside Barriers, Encroachment, and Vehicle Braking. , 2016, , .		10
9	New Energy-Absorbing High-Speed Safety Barrier. Transportation Research Record, 2003, 1851, 53-64.	1.0	9
10	Dynamic Evaluation and Implementation Guidelines for a Nonproprietary W-Beam Guardrail Trailing-End Terminal. Transportation Research Record, 2013, 2377, 61-73.	1.0	9
11	Midwest Guardrail System for Long-Span Culvert Applications. Transportation Research Record, 2007, 2025, 3-17.	1.0	8
12	Evaluating the Cost-Effectiveness of Roadside Culvert Treatments. Journal of Transportation Engineering, 2011, 137, 918-925.	0.9	7
13	Experimental and numerical investigation on deflection and behavior of portable construction barrier subjected to vehicle impacts. Engineering Structures, 2021, 235, 112071.	2.6	7
14	Crash protection of stock car racing drivers--application of biomechanical analysis of Indy car crash research. Stapp Car Crash Journal, 2006, 50, 415-28.	1.1	7
15	Midwest Guardrail System W-Beam-to-Thrie-Beam Transition. Transportation Research Record, 2007, 2025, 45-50.	1.0	6
16	Midwest Guardrail System Adjacent to a 2:1 Slope. Transportation Research Record, 2008, 2060, 74-83.	1.0	6
17	Head Ejection during Barrier Impacts. Journal of Transportation Engineering, 2012, 138, 1-11.	0.9	6
18	Performance of the Midwest Guardrail System with Rectangular Wood Posts. Transportation Research Record, 2014, 2437, 27-40.	1.0	6

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19	Dynamic strength of a modified W-beam BCT trailing-end termination system. International Journal of Crashworthiness, 2015, 20, 301-315.	1.1	6
20	Development of a 34-in. Tall Thrie-Beam Guardrail Transition to Accommodate Future Roadway Overlays. Transportation Research Record, 2019, 2673, 489-501.	1.0	6
21	Two Test Level 4 Bridge Railing and Transition Systems for Transverse Timber Deck Bridges. Transportation Research Record, 2000, 1696, 334-351.	1.0	5
22	Development and Testing of the SAFER Barrier - Version 2, SAFER Barrier Gate, and Alternative Backup Structure. , 2006, , .		5
23	Nonblocked Midwest Guardrail System for Wire-Faced Walls of Mechanically Stabilized Earth. Transportation Research Record, 2011, 2262, 94-106.	1.0	5
24	Minimum Effective Length for the Midwest Guardrail System. Transportation Research Record, 2015, 2521, 67-78.	1.0	5
25	W-Beam Guardrail Adjacent to a Slope. Transportation Research Record, 2001, 1743, 80-87.	1.0	4
26	Compliance Testing of a Bullnose Median Barrier System; NCHRP Report 350. Transportation Research Record, 2001, 1743, 60-70.	1.0	4
27	Design and Testing of a Concrete Safety Barrier for Use on a Temporary FRP Composite Bridge Deck. Journal of Bridge Engineering, 2013, 18, 1198-1208.	1.4	4
28	Evaluation of the Midwest Guardrail System stiffness transition with curb. Journal of Transportation Safety and Security, 2017, 9, 105-121.	1.1	4
29	Approach Guardrail Transition for Concrete Safety Shape Barriers. Transportation Research Record, 1998, 1647, 111-121.	1.0	3
30	Long-Span Guardrail System for Culvert Applications. Transportation Research Record, 2000, 1720, 19-29.	1.0	3
31	Design and Testing of Tie-Down Systems for Temporary Barriers. Transportation Research Record, 2003, 1851, 83-94.	1.0	3
32	Guardrail Connection for Low-Fill Culverts. Transportation Research Record, 2003, 1851, 105-116.	1.0	3
33	Initial In-Service Performance Evaluation of the SAFER Racetrack Barrier. , 2004, , .		3
34	High-Performance Aesthetic Bridge Rail and Median Barrier. Transportation Research Record, 2009, 2120, 60-73.	1.0	3
35	Inertial Effects during Impact Testing. Transportation Research Record, 2009, 2120, 39-46.	1.0	3
36	New Test Level 2 Rough Stone Masonry Guardwall. Transportation Research Record, 2010, 2195, 85-94.	1.0	3

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37	Development of Low-Cost, Energy-Absorbing Bridge Rail. Transportation Research Record, 2011, 2262, 107-118.	1.0	3
38	Development and Implementation of the Simplified Midwest Guardrail System Stiffness Transition. Transportation Research Record, 2012, 2309, 81-93.	1.0	3
39	Racetrack SAFER barrier on temporary concrete barriers. International Journal of Crashworthiness, 2013, 18, 343-355.	1.1	3
40	Vehicle-to-barrier communication during real-world vehicle crash tests. , 2016, , .		3
41	Optimal guardrail runout lengths for freeways. Journal of Transportation Safety and Security, 2017, 9, 403-418.	1.1	3
42	Development and Testing of a Test Level 4 Concrete Bridge Rail and Deck Overhang. Transportation Research Record, 2020, 2674, 455-465.	1.0	3
43	High Speed Crash Barrier Investigation Using Simulation. , 2000, , .		3
44	Railing Systems for Use on Timber Deck Bridges. Transportation Research Record, 1999, 1656, 110-119.	1.0	2
45	Development of Two Test Level 2 Bridge Railings and Transitions for Use on Transverse Glue-Laminated Deck Bridges. Transportation Research Record, 2001, 1743, 126-138.	1.0	2
46	Midwest Guardrail System without Blockouts. Transportation Research Record, 2013, 2377, 1-13.	1.0	2
47	Weak-Post W-Beam Guardrail Attachment to Culvert Headwalls. Transportation Research Record, 2014, 2437, 41-51.	1.0	2
48	Development of a Test Level 3 Transition Between Guardrail and Portable Concrete Barriers. Transportation Research Record, 2017, 2638, 77-87.	1.0	2
49	Crash reconstruction technique for cable barrier systems. Journal of Transportation Safety and Security, 2019, 11, 243-260.	1.1	2
50	Large-radius curved guardrail installations for intersecting roadways. Journal of Transportation Safety and Security, 2019, 11, 261-286.	1.1	2
51	Development of a Test Level 4, Side-Mounted, Steel Tube Bridge Rail. Transportation Research Record, 2020, 2674, 525-537.	1.0	2
52	Crash Testing and Analysis of Work-Zone Sign Supports. Transportation Research Record, 2002, 1797, 96-104.	1.0	2
53	Tie-Downs and Transitions for Temporary Concrete Barriers. Transportation Research Record, 2006, 1984, 31-46.	1.0	2
54	Crashing Waves: An Empirical Vehicle-to-Barrier Communication Channel Model via Crash Tests. , 2021, , .		2

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55	Approach Guardrail Transition for Single-Slope Concrete Barriers. Transportation Research Record, 1996, 1528, 97-108.	1.0	1
56	Deck-Mounted Steel Post Barrier System. Journal of Bridge Engineering, 2007, 12, 449-455.	1.4	1
57	Safety Grates for Cross-Drainage Culverts. Transportation Research Record, 2008, 2060, 67-73.	1.0	1
58	Design and Testing of Two Bridge Railings for Transverse Nail-Laminated Timber Deck Bridges. Transportation Research Record, 2011, 2262, 119-130.	1.0	1
59	Transition of Temporary Concrete Barrier. Journal of Transportation Safety and Security, 2012, 4, 137-159.	1.1	1
60	Cost-Effective Safety Treatment of Trees on Low-Volume Rural Roads. Transportation Research Record, 2015, 2472, 194-202.	1.0	1
61	Cost-Benefit Analysis of Crash Cushion Systems. Journal of Transportation Safety and Security, 2015, 7, 1-19.	1.1	1
62	Standard Midwest Guardrail System Placed at 1V:2H Slope Break Point or with Omitted Post. Transportation Research Record, 2017, 2638, 65-76.	1.0	1
63	Development of a Standardized Buttress for Approach Guardrail Transitions. Transportation Research Record, 2018, 2672, 41-51.	1.0	1
64	Simplified Soil-Pile Interaction Modeling under Impact Loading. , 2018, , .		1
65	Development of retrofit, low-deflection portable concrete barrier system. Journal of Transportation Safety and Security, 2019, 11, 333-352.	1.1	1
66	Development, Crash Testing, and Evaluation of Steel-Post Trailing-End Guardrail Anchorage System. Transportation Research Record, 0, , 036119812110319.	1.0	1
67	Comparison of Modified Yield-Line and Punching Shear Capacities for Concrete Traffic Barriers and Bridge Rails. Transportation Research Record, 0, , 036119812110312.	1.0	1
68	Reduced-Height Performance Level 2 Bridge Rail. Transportation Research Record, 1996, 1528, 116-123.	1.0	0
69	Test Level 4 Noise Wall for Attachment to Concrete Traffic Barriers. Transportation Research Record, 2006, 1984, 56-68.	1.0	0
70	Tie-Downs and Transitions for Temporary Concrete Barriers. Transportation Research Record, 2006, 1984, 31-46.	1.0	0
71	Interaction Between Single Unit Trucks and Concrete Barriers in High Speed Impacts. , 2007, , 313.		0
72	Termination and Anchorage of Temporary Concrete Barrier. Journal of Transportation Safety and Security, 2011, 3, 189-206.	1.1	0

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73	Analysis of Existing Work-Zone Sign Supports Using Manual for Assessing Safety Hardware Safety Performance Criteria. Journal of Transportation Safety and Security, 2011, 3, 237-251.	1.1	0
74	Development of Universal Breakaway Steel Post for Bullnose Median Barrier. Transportation Research Record, 2012, 2309, 94-104.	1.0	0
75	Benefits of Slope Flattening. Journal of Transportation Safety and Security, 2014, 6, 356-368.	1.1	0
76	Safety Investigation and Guidance for Retrofitting Existing Approach Guardrail Transitions. Transportation Research Record, 2014, 2437, 52-62.	1.0	0
77	Development of Socketed Foundatio for Cable Guardrail Posts. Transportation Research Record, 2015, 2521, 128-136.	1.0	0
78	Manual for Assessing Safety Hardware Test Level 4 Design and Evaluation of a Restorable Energy-Absorbing Concrete Barrier. Transportation Research Record, 2016, 2588, 98-109.	1.0	0
79	Development and Testing of the Manitoba Constrained Width Tall Wall Barrier. Transportation Research Record, 2017, 2638, 55-64.	1.0	0
80	Pole Placement Near the Midwest Guardrail System. , 2017, , .		0
81	Rail height effects on safety performance of Midwest Guardrail System. Traffic Injury Prevention, 2018, 19, 219-224.	0.6	0
82	Development of Transition between Free-Standing and Reduced-Deflection Portable Concrete Barriers. Transportation Research Record, 2018, 2672, 118-129.	1.0	0
83	Safe placement of breakaway luminaire poles behind Midwest Guardrail System. International Journal of Crashworthiness, 2018, 23, 521-539.	1.1	0
84	Pile Design for Use in High-Tension Cable Median Barriers. , 2019, , .		0
85	Crash Testing and Evaluation of Culvert-Mounted Midwest Guardrail System. Transportation Research Record, 2020, 2674, 161-171.	1.0	0
86	Recommended Test Vehicle Update for Manual for Assessing Safety Hardware. Transportation Research Record, 2021, 2675, 98-111.	1.0	0
87	Autonomous Vehicle Safe Operating Speeds on the Automated Skyway Express in Jacksonville, Florida. Transportation Research Record, 2021, 2675, 188-199.	1.0	0
88	Effective moment of inertia for rectangular elastoplastic beams. Structural Engineering and Mechanics, 1999, 7, 95-110.	1.0	0
89	Development of a Test Level 3 Approach Guardrail Transition to Steel Tube Bridge Rail. Transportation Research Record, 0, , 036119812210825.	1.0	0
90	Development and Evaluation of Top-Mounted Sockets for Weak-Post, Midwest Guardrail System on Culverts. Transportation Research Record, 0, , 036119812210892.	1.0	0

#	Article	IF	Citations
91	Development, Crash Testing, and Evaluation of Portable Concrete Barriers Gap-Spanning Hardware. Transportation Research Record, 0, , 036119812210882.	1.0	0