

# Roland Brmond

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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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.

37  
papers

412  
citations

11  
h-index

18  
g-index

39  
ext. papers

481  
ext. citations

3  
avg. IF

4.04  
L-index

#	Paper	IF	Citations
37	Single Image Atmospheric Veil Removal Using New Priors for Better Genericity. <i>Atmosphere</i> , <b>2021</b> , 12, 772	2.7	1
36	Visual Performance Models in Road Lighting: A Historical Perspective. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2021</b> , 17, 212-241	3.5	7
35	Discomfort Glare from Several Sources: A Formula for Outdoor Lighting. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2021</b> , 17, 108-124	3.5	3
34	Single Image Atmospheric Veil Removal Using New Priors <b>2021</b> ,		1
33	Drivers' visual attention: A field study at intersections. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2020</b> , 69, 206-221	4.5	5
32	All-Weather Vision for Automotive Safety: Which Spectral Band?. <i>Lecture Notes in Mobility</i> , <b>2019</b> , 3-15	0.5	6
31	The shape of road markings for visibility computations. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , <b>2019</b> , 1-9	0.5	0
30	Driving at night with a cataract: Risk homeostasis?. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2018</b> , 53, 61-73	4.5	4
29	High Dynamic Range Displays improve the realism of motion cues in night driving simulators. <i>Displays</i> , <b>2018</b> , 52, 30-39	3.4	3
28	Visibility and discomfort glare of LED road studs. <i>Lighting Research and Technology</i> , <b>2015</b> , 47, 945-963	2	5
27	Quantitative model of the driver's reaction time during daytime fog [application to a head up display-based advanced driver assistance system. <i>IET Intelligent Transport Systems</i> , <b>2015</b> , 9, 375-381	2.4	6
26	Gaze behavior when approaching an intersection: Dwell time distribution and comparison with a quantitative prediction. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2015</b> , 35, 60-74	4.5	21
25	Design and evaluation of a user-centered interface to model scenarios on driving simulators. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2015</b> , 50, 3-12	8.4	7
24	Towards an Analytical Age-Dependent Model of Contrast Sensitivity Functions for an Ageing Society. <i>Scientific World Journal, The</i> , <b>2015</b> , 2015, 625034	2.2	4
23	Measuring the effect of the rainfall on the windshield in terms of visual performance. <i>Accident Analysis and Prevention</i> , <b>2014</b> , 63, 83-8	6.1	15
22	Enhanced fog detection and free-space segmentation for car navigation. <i>Machine Vision and Applications</i> , <b>2014</b> , 25, 667-679	2.8	19
21	Discriminating cognitive processes with eye movements in a decision-making driving task.. <i>Journal of Eye Movement Research</i> , <b>2014</b> , 7,	1.7	11

20	Drivers with limited perception: model and application to traffic simulation. <i>Recherche - Transports - Securite</i> , <b>2014</b> , 2014, 49-63		2
19	Evaluation of tone mapping operators in night-time virtual worlds. <i>Virtual Reality</i> , <b>2013</b> , 17, 253-262	6	3
18	Target visibility level and detection distance on a driving simulator. <i>Lighting Research and Technology</i> , <b>2013</b> , 45, 76-89	2	21
17	Leftward attentional bias in a simulated driving task. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2013</b> , 20, 147-153	4.5	17
16	Saliency Maps of High Dynamic Range Images. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 118-130	0.9	10
15	A model-driven approach to estimate atmospheric visibility with ordinary cameras. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 5316-5324	5.3	32
14	A unified CSF-based framework for edge detection and edge visibility <b>2011</b> ,		3
13	Photometric measurements for visibility level computations. <i>Lighting Research and Technology</i> , <b>2011</b> , 43, 119-128	2	9
12	Estimating Meteorological Visibility Using Cameras: A Probabilistic Model-Driven Approach. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 243-254	0.9	8
11	Vision models for image quality assessment: one is not enough. <i>Journal of Electronic Imaging</i> , <b>2010</b> , 19, 043004	0.7	7
10	The effect of the driving activity on target detection as a function of the visibility level: Implications for road lighting. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2010</b> , 13, 115-128	4.5	24
9	A high dynamic range rendering pipeline for interactive applications. <i>Visual Computer</i> , <b>2010</b> , 26, 533-542.3		11
8	Effects of the viewing context on target detection. Implications for road lighting design. <i>Applied Ergonomics</i> , <b>2010</b> , 41, 461-8	4.2	17
7	Saliency maps of high dynamic range images <b>2009</b> ,		4
6	Alerting the drivers about road signs with poor visual saliency <b>2009</b> ,		19
5	A tone-mapping operator for road visibility experiments. <i>ACM Transactions on Applied Perception</i> , <b>2008</b> , 5, 1-24	1.4	88
4	Effect of task and eccentricity of the target on detection thresholds in mesopic vision: implications for road lighting. <i>Human Factors</i> , <b>2008</b> , 50, 712-21	3.8	14
3	Approche psychologique de l'activité de traversée des piétons. Implications pour la simulation. <i>Recherche - Transports - Securite</i> , <b>2008</b> , 28, 265-279		2

2 Perceptual Hysteresis Thresholding: Towards Driver Visibility Descriptors **2007**, 1

1 Discomfort Glare from a Cyclic Source in Outdoor Lighting Conditions. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-16 3-5 1