Robert E Roth

List of Publications by Year
in descending order

58 papers	1,854 citations	331538 21 h-index	289141 40 g-index
62 all docs	62 docs citations	62 times ranked	1878 citing authors

#	Article	IF	Citations
1	The Neotoma Paleoecology Database, a multiproxy, international, community-curated data resource. Quaternary Research, 2018, 89, 156-177.	1.0	210
2	Visual Semiotics & Uncertainty Visualization: An Empirical Study. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2496-2505.	2.9	185
3	Geovisual analytics to enhance spatial scan statistic interpretation: an analysis of U.S. cervical cancer mortality. International Journal of Health Geographics, 2008, 7, 57.	1.2	159
4	An Empirically-Derived Taxonomy of Interaction Primitives for Interactive Cartography and Geovisualization. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2356-2365.	2.9	122
5	User studies in cartography: opportunities for empirical research on interactive maps and visualizations. International Journal of Cartography, 2017, 3, 61-89.	0.2	96
6	Cartographic Interaction Primitives: Framework and Synthesis. Cartographic Journal, 2012, 49, 376-395.	0.8	91
7	User-Centered Design for Interactive Maps: A Case Study in Crime Analysis. ISPRS International Journal of Geo-Information, 2015, 4, 262-301.	1.4	75
8	Value-by-alpha Maps: An Alternative Technique to the Cartogram. Cartographic Journal, 2010, 47, 130-140.	0.8	69
9	Interactive maps: What we know and what we need to know. Journal of Spatial Information Science, 2013, , .	1.1	64
10	Transferring multiscale map styles using generative adversarial networks. International Journal of Cartography, 2019, 5, 115-141.	0.2	44
11	Cartographic Design as Visual Storytelling: Synthesis and Review of Map-Based Narratives, Genres, and Tropes. Cartographic Journal, 2021, 58, 83-114.	0.8	42
12	Envisioning the future of cartographic research. International Journal of Cartography, 2017, 3, 1-8.	0.2	40
13	Spatiotemporal crime analysis in U.S. law enforcement agencies: Current practices and unmet needs. Government Information Quarterly, 2013, 30, 226-240.	4.0	33
14	Eye Tracking to Explore the Potential of Enhanced Imagery Basemaps in Web Mapping. Cartographic Journal, 2014, 51, 313-329.	0.8	31
15	Addressing Map Interface Usability: Learning from the Lakeshore Nature Preserve Interactive Map. Cartographic Perspectives, 2008, , 46-66.	0.1	31
16	A typology of operators for maintaining legible map designs at multiple scales. Cartographic Perspectives, 2011, , 29-64.	0.1	30
17	A Qualitative Approach to Understanding the Role of Geographic Information Uncertainty during Decision Making. Cartography and Geographic Information Science, 2009, 36, 315-330.	1.4	29
18	Designing a web-based learning portal for geographic visualization and analysis in public health. Health Informatics Journal, 2011, 17, 191-208.	1.1	29

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19	Geovisual analytics and the science of interaction: an empirical interaction study. Cartography and Geographic Information Science, 2016, 43, 30-54.	1.4	26
20	The Impact of User Expertise on Geographic Risk Assessment under Uncertain Conditions. Cartography and Geographic Information Science, 2009, 36, 29-43.	1.4	25
21	A Process for Keeping Pace with Evolving Web Mapping Technologies. Cartographic Perspectives, 2015, , 25-52.	0.1	25
22	Interactivity and Cartography: A Contemporary Perspective on User Interface and User Experience Design from Geospatial Professionals. Cartographica, 2015, 50, 94-115.	0.2	24
23	User Interface and User Experience (UI/UX) Design. , 2017, 2017, .		24
24	Symbol Store: sharing map symbols for emergency management. Cartography and Geographic Information Science, 2013, 40, 415-426.	1.4	22
25	Undisciplining environmental justice research with visual storytelling. Geoforum, 2019, 102, 267-277.	1.4	21
26	Extending the Google Maps API for Event Animation Mashups. Cartographic Perspectives, 2009, , 21-40.	0.1	21
27	Card Sorting For Cartographic Research and Practice. Cartography and Geographic Information Science, 2011, 38, 89-99.	1.4	20
28	Global Landscapes: Teaching Globalization through Responsive Mobile Map Design. Professional Geographer, 2018, 70, 395-411.	1.0	18
29	Time Series Proportional Symbol Maps with Leaflet and jQuery. Cartographic Perspectives, 2014, , 43-66.	0.1	17
30	Mobile Maps and Responsive Design. Geographic Information Science & Technology Body of Knowledge, 2018, 2018, .	0.1	17
31	Developing Map Symbol Standards through an Iterative Collaboration Process. Environment and Planning B: Planning and Design, 2012, 39, 1034-1048.	1.7	16
32	Improving spatial decision making using interactive maps: An empirical study on interface complexity and decision complexity in the North American hazardous waste trade. Environment and Planning B: Urban Analytics and City Science, 2019, 46, 1706-1723.	1.0	16
33	The Competitive Analysis Method for Evaluating Water Level Visualization Tools. Lecture Notes in Geoinformation and Cartography, 2015, , 241-256.	0.5	15
34	The roles of social domains, behavioral risk, health care resources, and chlamydia in spatial clusters of US cervical cancer mortality: not all the clusters are the same. Cancer Causes and Control, 2010, 21, 1669-1683.	0.8	14
35	Wireframing for interactive & web-based geographic visualization: designing the NOAA Lake Level Viewer. Cartography and Geographic Information Science, 2017, 44, 338-357.	1.4	14
36	Undermining methodological nationalism: Cosmopolitan analysis and visualization of the North American hazardous waste trade. Environment and Planning A, 2018, 50, 1558-1579.	2.1	13

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37	HazMatMapper: an online and interactive geographic visualization tool for exploring transnational flows of hazardous waste and environmental justice. Journal of Maps, 2017, 13, 14-23.	1.0	12
38	Understanding User Needs for Map Symbol Standards in Emergency Management. Journal of Homeland Security and Emergency Management, 2011, 8, .	0.2	11
39	Design and evaluation of an Open Web Platform cartography lab curriculum. Journal of Geography in Higher Education, 2017, 41, 1-23.	1.4	9
40	Hazardous Aesthetics: A â€œMerely Interestingâ€•Toxic Tour of Waste Management Data. GeoHumanities, 2018, 4, 262-281.	0.5	8
41	How do user-centered design studies contribute to cartography?. Geografie-Sbornik CGS, 2019, 124, 133-161.	0.3	8
42	A framework and comparative analysis of web-based climate change visualization tools. Computers and Graphics, 2022, 103, 19-30.	1.4	7
43	Toward green cartography & visualization: a semantically-enriched method of generating energy-aware color schemes for digital maps. Cartography and Geographic Information Science, 2021, 48, 43-62.	1.4	6
44	Mobile UX design: learning from the Flyover Country mobile app. Journal of Maps, 2021, 17, 39-50.	1.0	6
45	A Collaborative Process for Developing Map Symbol Standards. Procedia, Social and Behavioral Sciences, 2011, 21, 93-102.	0.5	5
46	Interactive and Multivariate Choropleth Maps with D3. Cartographic Perspectives, 2015, , 57-76.	0.1	5
47	The 21st Century Campus Map: Mapping the University of Wisconsin-Madison. Journal of Maps, 2009, 5, 1-8.	1.0	4
48	Weevil Viewer: An interactive mapping application for geographic and phenological exploration of Wisconsin's primitive weevils. Journal of Maps, 2014, 10, 289-296.	1.0	4
49	The Basic Ordnance Observational Management System: geovisual exploration and analysis of improvised explosive device incidents. Journal of Maps, 2012, 8, 120-124.	1.0	3
50	Who owns paradise? Using web mapping to enhance a geography course exercise about tropical forest conservation. Journal of Maps, 2015, 11, 525-533.	1.0	2
51	Cartography 2.0: For people who make interactive maps. Cartographic Perspectives, 2009, , 41-44.	0.1	2
52	A workflow learning model to improve geovisual analytics utility. Proceedings of the ... International Cartographic conference = Actes de la ... ConfÃ©rence Cartographique Internationale., 2009, , .	0.0	2
53	A Design Challenge for Transforming Justice. GeoHumanities, 2022, 8, 344-365.	0.5	2
54	An Automated Approach to Site Selection for Ecological Restoration in Fragmented Landscapes. Annals of GIS, 2006, 12, 98-105.	1.4	1

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55	Introducing Web Mapping: A Workbook for Interactive Cartography and Visualization on the Open Web. Abstracts of the ICA, 0, 3, 1-2.	0.0	1
56	Interview with a Celebrity Cartographer: Cindy Brewer. Cartographic Perspectives, 2010, , 91-101.	0.1	0
57	Introducing a QGIS technical supplement for <i>Mapping for a Sustainable World</i>. Abstracts of the ICA, 0, 3, 1-2.	0.0	0
58	The Making of <i>Mapping for a Sustainable World</i>. Abstracts of the ICA, 0, 3, 1-2.	0.0	0