

Abbas Rajabifard

List of Publications by Year in descending order

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Version: 2024-02-01

161
papers

4,084
citations

117453

34
h-index

161609

54
g-index

163
all docs

163
docs citations

163
times ranked

3110
citing authors

#	ARTICLE	IF	CITATIONS
1	Requirements of a data storage infrastructure for effective land administration systems: case study of Victoria, Australia. <i>Journal of Spatial Science</i> , 2023, 68, 431-449.	1.0	4
2	Fifty years of scholarly research on terrorism: Intellectual progression, structural composition, trends and knowledge gaps of the field. <i>International Journal of Disaster Risk Reduction</i> , 2022, 68, 102714.	1.8	17
3	A Framework for Scaling Urban Transformative Resilience through Utilizing Volunteered Geographic Information. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 114.	1.4	12
4	Remote Sensing and Meteorological Data Fusion in Predicting Bushfire Severity: A Case Study from Victoria, Australia. <i>Remote Sensing</i> , 2022, 14, 1645.	1.8	6
5	Region-income-based prioritisation of Sustainable Development Goals by Gradient Boosting Machine. <i>Sustainability Science</i> , 2022, 17, 1939-1957.	2.5	7
6	The state of wildfire and bushfire science: Temporal trends, research divisions and knowledge gaps. <i>Safety Science</i> , 2022, 153, 105797.	2.6	12
7	A BIM-based framework for property dispute minimization “ A case study for Victoria, Australia. <i>Land Use Policy</i> , 2022, 119, 106200.	2.5	2
8	Editorial: Geospatial Understanding of Sustainable Urban Analytics Using Remote Sensing. <i>Remote Sensing</i> , 2022, 14, 2748.	1.8	0
9	Potential and limitations of digital twins to achieve the Sustainable Development Goals. <i>Nature Sustainability</i> , 2022, 5, 822-829.	11.5	46
10	Systematic prioritisation of SDGs: Machine learning approach. <i>World Development</i> , 2021, 140, 105269.	2.6	47
11	Advances in techniques to formulate the watertight concept for cadastre. <i>Transactions in GIS</i> , 2021, 25, 213-237.	1.0	6
12	A collaborative approach for urban underground space development toward sustainable development goals: Critical dimensions and future directions. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 20-45.	1.2	67
13	Identification of Property Boundaries Using an IFC-Based Cadastral Database. <i>Land</i> , 2021, 10, 300.	1.2	6
14	Design and development of an LADM-driven 3D Land administration system: Lessons learned in Malaysia. <i>Land Use Policy</i> , 2021, 102, 105252.	2.5	7
15	Linking Land Administration Domain Model and BIM environment for 3D digital cadastre in multi-storey buildings. <i>Land Use Policy</i> , 2021, 104, 105367.	2.5	17
16	Impact of ownership and architectural design on property disputes in multi-owned buildings. <i>Habitat International</i> , 2021, 112, 102371.	2.3	7
17	The Role and Value of Geospatial Information and Technology in a Pandemic. , 2021, , 3-10.		2
18	A Proposal for Streamlining 3D Digital Cadastral Data Lifecycle. <i>Land</i> , 2021, 10, 642.	1.2	5

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19	Synchronising Spatial Metadata Records and Interfaces to Improve the Usability of Metadata Systems. ISPRS International Journal of Geo-Information, 2021, 10, 393.	1.4	1
20	A Proposal for a User-Oriented Spatial Metadata Profile. ISPRS International Journal of Geo-Information, 2021, 10, 376.	1.4	1
21	Integration of cadastral survey data into building information models. Geo-Spatial Information Science, 2021, 24, 387-402.	2.4	15
22	Formative and Summative Validation of Building Information Model-Based Cadastral Data. Land, 2021, 10, 822.	1.2	3
23	Using open data to detect the structure and pattern of informal settlements: an outset to support inclusive SDGs™ achievement. Big Earth Data, 2021, 5, 497-526.	2.0	5
24	A framework for spatial analysis in 3D urban land administration – A case study for Victoria, Australia. Land Use Policy, 2021, 111, 105766.	2.5	5
25	An IFC-based database schema for mapping BIM data into a 3D spatially enabled land administration database. International Journal of Digital Earth, 2021, 14, 736-765.	1.6	21
26	Underground Land Administration from 2D to 3D: Critical Challenges and Future Research Directions. Land, 2021, 10, 1101.	1.2	15
27	Building Information Modeling (BIM) for Construction and Demolition Waste Management in Australia: A Research Agenda. Sustainability, 2021, 13, 12983.	1.6	18
28	A model for multi-class road network recovery scheduling of regional road networks. Transportation, 2020, 47, 109-143.	2.1	7
29	Dealing with small sample size problems in process industry using virtual sample generation: a Kriging-based approach. Soft Computing, 2020, 24, 6889-6902.	2.1	31
30	3D BIM-enabled spatial query for retrieving property boundaries: a case study in Victoria, Australia. International Journal of Geographical Information Science, 2020, 34, 251-271.	2.2	22
31	A structured framework for 3D cadastral data validation – a case study for Victoria, Australia. Land Use Policy, 2020, 98, 104359.	2.5	14
32	A discussion of irrational stockpiling behaviour during crisis. Journal of Safety Science and Resilience, 2020, 1, 57-58.	1.3	44
33	The conceptualisation of resilience dimensions and comprehensive quantification of the associated indicators: A systematic approach. International Journal of Disaster Risk Reduction, 2020, 51, 101840.	1.8	29
34	Spatial Metadata Usability Evaluation. ISPRS International Journal of Geo-Information, 2020, 9, 463.	1.4	6
35	Applying BIM to support dispute avoidance in managing multi-owned buildings. Journal of Computational Design and Engineering, 2020, 7, 788-802.	1.5	11
36	A classification technique for local multivariate clusters and outliers of spatial association. Transactions in GIS, 2020, 24, 1227-1247.	1.0	6

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37	Moving Towards a Single Smart Cadastral Platform in Victoria, Australia. ISPRS International Journal of Geo-Information, 2020, 9, 303.	1.4	8
38	Developing a new framework based on solid models for 3D cadastres. Land Use Policy, 2020, 92, 104480.	2.5	11
39	Transport sustainability indicators for an enhanced urban analytics data infrastructure. Sustainable Cities and Society, 2020, 59, 102095.	5.1	14
40	The design and practice of a semantic-enabled urban analytics data infrastructure. Computers, Environment and Urban Systems, 2020, 81, 101484.	3.3	6
41	Socio-environmental costs of underground space use for urban sustainability. Sustainable Cities and Society, 2019, 51, 101757.	5.1	53
42	Querying 3D Cadastral Information from BIM Models. ISPRS International Journal of Geo-Information, 2019, 8, 329.	1.4	34
43	Urban drought challenge to 2030 sustainable development goals. Science of the Total Environment, 2019, 693, 133536.	3.9	147
44	Utilizing a Building Information Modelling Environment to Communicate the Legal Ownership of Internet of Things-Generated Data in Multi-Owned Buildings. Electronics (Switzerland), 2019, 8, 1258.	1.8	11
45	Condition assessment of concrete by hybrid non-destructive tests. Journal of Civil Structural Health Monitoring, 2019, 9, 339-351.	2.0	2
46	A Heuristic Transformation in Discriminative Dictionary Learning for Person Re-Identification. IEEE Access, 2019, 7, 40313-40322.	2.6	1
47	Automatic analysis of positional plausibility for points of interest in OpenStreetMap using coexistence patterns. International Journal of Geographical Information Science, 2019, 33, 1420-1443.	2.2	13
48	Exploring the 3rd dimension within public law restrictions: A case study of Victoria, Australia. Land Use Policy, 2019, 85, 195-206.	2.5	17
49	Tackling the challenges of visualising digital cadastral plans: The Victorian cadastre experience. Land Use Policy, 2019, 83, 84-94.	2.5	7
50	Modelling and finding optimal evacuation strategy for tall buildings. Safety Science, 2019, 115, 247-255.	2.6	33
51	System optimal relaxation and Benders decomposition algorithm for the large-sized road network design problem. International Journal of Logistics Systems and Management, 2019, 34, 486.	0.2	1
52	The Feasibility of a BIM-Driven Approach to Support Building Subdivision Workflows—Case Study of Victoria, Australia. ISPRS International Journal of Geo-Information, 2019, 8, 499.	1.4	24
53	Low carbon effects of urban underground space. Sustainable Cities and Society, 2019, 45, 451-459.	5.1	57
54	Floods, Bushfires and Sectoral Economic Output in Australia, 1978–2014. Economic Record, 2019, 95, 58-80.	0.2	14

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55	System optimal relaxation and Benders decomposition algorithm for the large-sized road network design problem. <i>International Journal of Logistics Systems and Management</i> , 2019, 34, 486.	0.2	0
56	Urban Analytics Data Infrastructure: Critical SDI for Measuring and Monitoring The National and Local Progress of SDGs. , 2019, , 243-255.		3
57	Influence of pedestrian age and gender on spatial and temporal distribution of pedestrian crashes. <i>Traffic Injury Prevention</i> , 2018, 19, 81-87.	0.6	31
58	A framework for selecting a fit-for-purpose data collection method in land administration. <i>Land Use Policy</i> , 2018, 70, 162-171.	2.5	11
59	Hybrid machine learning and optimisation method to solve a triâ€level road network protection problem. <i>IET Intelligent Transport Systems</i> , 2018, 12, 1011-1019.	1.7	0
60	From IFC to 3D Tiles: An Integrated Open-Source Solution for Visualising BIMs on Cesium. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 393.	1.4	39
61	Design and Development of a 3D Digital Cadastre Visualization Prototype. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 384.	1.4	12
62	Simulating Indoor Evacuation of Pedestrians: The Sensitivity of Predictions to Directional-Choice Calibration Parameters. <i>Transportation Research Record</i> , 2018, 2672, 171-182.	1.0	13
63	Cross-Domain Building Modelsâ€™ A Step towards Interoperability. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 363.	1.4	18
64	People Choice Modelling for Evacuation of Tall Buildings. <i>Fire Technology</i> , 2018, 54, 1171-1193.	1.5	14
65	A critical evaluation of 3D spatial information models for managing legal arrangements of multi-owned developments in Victoria, Australia. <i>International Journal of Geographical Information Science</i> , 2018, 32, 2098-2122.	2.2	36
66	Strategic Actions for Increasing the Submission of Digital Cadastral Data by the Surveying Industry Based on Lessons Learned from Victoria, Australia. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 47.	1.4	15
67	An ontology-based spatial data harmonisation for urban analytics. <i>Computers, Environment and Urban Systems</i> , 2018, 72, 177-190.	3.3	22
68	City Transition: A MOP Rights Boom in China. , 2018, , 83-101.		0
69	Automatic spatial metadata systems â€“ the case of Australian urban research infrastructure network. <i>Cartography and Geographic Information Science</i> , 2017, 44, 327-337.	1.4	9
70	Supporting the risk management process with land information: a case study of Australia. <i>Disasters</i> , 2017, 41, 352-364.	1.1	2
71	Building Information Modelling for Highâ€rise Land Administration. <i>Transactions in GIS</i> , 2017, 21, 91-113.	1.0	58
72	A Mixed Userâ€™Equilibrium and Systemâ€™Optimal Traffic Flow for Connected Vehicles Stated as a Complementarity Problem. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 562-580.	6.3	61

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73	Geometrical data validation in 3D digital cadastre – A case study for Victoria, Australia. <i>Land Use Policy</i> , 2017, 68, 638-648.	2.5	27
74	Neighborhood Influences on Vehicle-Pedestrian Crash Severity. <i>Journal of Urban Health</i> , 2017, 94, 855-868.	1.8	13
75	Assessment of a Pedestrian Bridge Dynamics Using Interferometric Radar System IBIS-FS. <i>Procedia Engineering</i> , 2017, 188, 33-40.	1.2	6
76	Improving regional road network resilience by optimised traffic guidance. <i>Transportmetrica A: Transport Science</i> , 2017, 13, 794-828.	1.3	24
77	Sustainable development and geospatial information: a strategic framework for integrating a global policy agenda into national geospatial capabilities. <i>Geo-Spatial Information Science</i> , 2017, 20, 59-76.	2.4	97
78	Identifying Achilles-heel roads in real-sized networks. <i>Journal of Modern Transportation</i> , 2017, 25, 1-11.	2.5	3
79	Understanding the provision of multi-agency sensor information in disaster management: A case study on the Australian state of Victoria. <i>International Journal of Disaster Risk Reduction</i> , 2017, 22, 475-493.	1.8	14
80	Modelling pedestrian crash severity at mid-blocks. <i>Transportmetrica A: Transport Science</i> , 2017, 13, 273-297.	1.3	32
81	Modelling building ownership boundaries within BIM environment: A case study in Victoria, Australia. <i>Computers, Environment and Urban Systems</i> , 2017, 61, 24-38.	3.3	49
82	Extending a BIM-based data model to support 3D digital management of complex ownership spaces. <i>International Journal of Geographical Information Science</i> , 2017, 31, 499-522.	2.2	57
83	Event relatedness assessment of Twitter messages for emergency response. <i>Information Processing and Management</i> , 2017, 53, 266-280.	5.4	69
84	Using an Online Data Portal and Prototype Analysis Tools in an Investigation of Spatial Livability Planning. <i>International Journal of E-Planning Research</i> , 2017, 6, 1-21.	3.0	5
85	Assessing Performance of Three BIM-Based Views of Buildings for Communication and Management of Vertically Stratified Legal Interests. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 198.	1.4	22
86	Review and Assessment of Current Cadastral Data Models for 3D Cadastral Applications. <i>Lecture Notes in Geoinformation and Cartography</i> , 2017, , 423-442.	0.5	10
87	An Advanced Web API for Isochrones Calculation Using OpenStreetMap Data. <i>Lecture Notes in Geoinformation and Cartography</i> , 2017, , 185-205.	0.5	2
88	INFLUENCING FACTORS ON VEHICLE-PEDESTRIAN CRASH SEVERITY OF SCHOOL-AGED PEDESTRIANS. <i>WIT Transactions on the Built Environment</i> , 2017, , .	0.0	2
89	A Partial Proportional Odds Model for Pedestrian Crashes at Mid-Blocks in Melbourne Metropolitan Area. <i>MATEC Web of Conferences</i> , 2016, 81, 02020.	0.1	7
90	A Multi-Element Approach to Location Inference of Twitter: A Case for Emergency Response. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 56.	1.4	52

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91	A solution to the road network design problem for multimodal flow. , 2016, , .		0
92	A conceptual framework for utilising VGI in land administration. Land Use Policy, 2016, 56, 81-89.	2.5	22
93	Assessment of the Australian digital cadastre protocol (ePlan) in terms of supporting 3D building subdivisions. Land Use Policy, 2016, 56, 112-124.	2.5	24
94	Participatory Planning Process for Controlling Urbanization. , 2016, , .		0
95	Towards 3D-enabled urban land administration: Strategic lessons from the BIM initiative in Singapore. Land Use Policy, 2016, 57, 1-10.	2.5	31
96	A BIM-GIS integration method in support of the assessment and 3D visualisation of flood damage to a building. Journal of Spatial Science, 2016, 61, 317-350.	1.0	73
97	Methods for assessing the credibility of volunteered geographic information in flood response: A case study in Brisbane, Australia. Applied Geography, 2016, 68, 37-47.	1.7	65
98	Expanding the SDI environment: comparing current spatial data infrastructure with emerging indoor location-based services. International Journal of Digital Earth, 2016, 9, 629-647.	1.6	31
99	Towards multi-agency sensor information integration for disaster management. Computers, Environment and Urban Systems, 2016, 56, 68-85.	3.3	38
100	Land-use planning: Implications for transport sustainability. Land Use Policy, 2016, 50, 252-261.	2.5	34
101	What scope for integrating land management policies, land administration processes and data infrastructures for housing production in Nigeria?. Journal of Housing and the Built Environment, 2016, 31, 51-68.	0.9	2
102	A framework for a microscale flood damage assessment and visualization for a building using BIM-GIS integration. International Journal of Digital Earth, 2016, 9, 363-386.	1.6	105
103	Leveraging VGI Integrated with 3D Spatial Technology to Support Urban Intensification in Melbourne, Australia. Urban Planning, 2016, 1, 32-48.	0.7	10
104	An intelligent disaster decision support system for increasing the sustainability of transport networks. Natural Resources Forum, 2015, 39, 83-96.	1.8	13
105	Integrating Legal and Physical Dimensions of Urban Environments. ISPRS International Journal of Geo-Information, 2015, 4, 1442-1479.	1.4	32
106	A new 3D indoor/outdoor spatial model for indoor emergency response facilitation. Building and Environment, 2015, 89, 170-182.	3.0	130
107	Warnvave: Empowering the crowd to exchange emergency information. , 2015, , .		0
108	Evacuation time in tall high-rise buildings. , 2015, , .		2

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109	Indoor incident situation awareness using a 3D indoor/outdoor spatial city model. , 2015, , .		7
110	Alternative Planning and Land Administration for Future Smart Cities [Leading Edge]. IEEE Technology and Society Magazine, 2015, 34, 33-73.	0.6	12
111	A roadmap to adopt the Land Administration Domain Model in cadastral information systems. Land Use Policy, 2015, 49, 552-564.	2.5	24
112	A path dependence perspective on the Chinese cadastral system. Land Use Policy, 2015, 45, 8-17.	2.5	12
113	Design and development of a web-based 3D cadastral visualisation prototype. International Journal of Digital Earth, 2015, 8, 538-557.	1.6	33
114	Strategies for improving land delivery for residential development: a case of the north-west metropolitan Melbourne. International Journal of Geographical Information Science, 2015, 29, 1649-1667.	2.2	0
115	An evaluation of integrating multisourced sensors for disaster management. International Journal of Digital Earth, 2015, 8, 727-749.	1.6	14
116	Modelling cost estimation for accessing spatial data using fuzzy logic and time-driven activity based costing in the context of an NSDI. Journal of Spatial Science, 2015, 60, 137-151.	1.0	4
117	â€œInvisibleâ€™ constraints on 3D innovation in land administration: A case study on the city of Melbourne. Land Use Policy, 2015, 42, 412-425.	2.5	14
118	Virtual Identification of Dwelling Characteristics Online for Analysis of Urban Resource Consumption. International Journal of E-Planning Research, 2015, 4, 1-28.	3.0	3
119	Understanding the provision of national location information in Australia: a PSMA case study. Journal of Spatial Science, 2014, 59, 205-220.	1.0	2
120	Land administration for housing production: analysis of need for interagency integration. Survey Review, 2014, 46, 66-75.	0.7	2
121	Inter-agency land administration in Australia: what scope for integrating policies, processes and data infrastructures for housing production?. Journal of Spatial Science, 2014, 59, 121-136.	1.0	1
122	A geometric and semantic evaluation of 3D data sourcing methods for land and property information. Land Use Policy, 2014, 36, 219-230.	2.5	55
123	Transport sustainability index: Melbourne case study. Ecological Indicators, 2014, 43, 288-296.	2.6	123
124	Geospatial Metadata 2.0 â€œ An approach for Volunteered Geographic Information. Computers, Environment and Urban Systems, 2014, 48, 35-48.	3.3	23
125	Land administration for housing production: An approach for assessment. Land Use Policy, 2014, 38, 366-377.	2.5	11
126	Modes of housing production in developing countries: the contemporary role of land, labour, and capital in Lagos, Nigeria. Journal of Housing and the Built Environment, 2013, 28, 363-379.	0.9	14

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127	Legal barriers to 3D cadastre implementation: What is the issue?. Land Use Policy, 2013, 35, 379-387.	2.5	34
128	Spatio-temporal event detection using probabilistic graphical models (PGMs). , 2013, , .		9
129	Spatially enabled bushfire recovery. Geo Journal, 2013, 78, 151-163.	1.7	3
130	Towards integration of 3D legal and physical objects in cadastral data models. Land Use Policy, 2013, 35, 140-154.	2.5	66
131	Visualization requirements for 3D cadastral systems. Computers, Environment and Urban Systems, 2013, 41, 39-54.	3.3	69
132	On recognizing land administration as critical, public good infrastructure. Land Use Policy, 2013, 30, 84-93.	2.5	25
133	Disaster risk reduction using acceptable risk measures for spatial planning. Journal of Environmental Planning and Management, 2013, 56, 761-785.	2.4	16
134	Utilising data modelling to understand the structure of 3D cadastres. Journal of Spatial Science, 2013, 58, 215-234.	1.0	26
135	A GML-based approach to automate spatial metadata updating. International Journal of Geographical Information Science, 2013, 27, 231-250.	2.2	12
136	A spatial data infrastructure model from the computational viewpoint. International Journal of Geographical Information Science, 2013, 27, 1133-1151.	2.2	17
137	Sensing places' life to make city smarter. , 2012, , .		17
138	The dynamics of city growth and the impact on urban land policies in developing countries. International Journal of Urban Sustainable Development, 2012, 4, 146-165.	1.0	13
139	Towards a foundation for spatial metadata automation. Journal of Spatial Science, 2012, 57, 65-81.	1.0	4
140	Inter-governmental land information asymmetries in Australia. Journal of Spatial Science, 2012, 57, 83-100.	1.0	0
141	On the need for national land administration infrastructures. Land Use Policy, 2012, 29, 208-219.	2.5	38
142	On the Role of Government Land Information in Macroeconomic Policies. Environment and Planning C: Urban Analytics and City Science, 2011, 29, 1087-1101.	1.5	1
143	An assessment view to evaluate whether Spatial Data Infrastructures meet their goals. Computers, Environment and Urban Systems, 2011, 35, 217-229.	3.3	12
144	Development of an interoperable tool to facilitate spatial data integration in the context of SDI. International Journal of Geographical Information Science, 2010, 24, 487-505.	2.2	29

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145	Awareness as a foundation for developing effective spatial data infrastructures. <i>Land Use Policy</i> , 2009, 26, 254-261.	2.5	16
146	Spatially referenced legal property objects. <i>Land Use Policy</i> , 2008, 25, 173-181.	2.5	38
147	An ontological structure for semantic interoperability of GIS and environmental modeling. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 342-357.	1.4	24
148	Spatially enabling governments through SDI implementation. <i>International Journal of Geographical Information Science</i> , 2008, 22, 5-20.	2.2	50
149	An initial formal model for spatial data infrastructures. <i>International Journal of Geographical Information Science</i> , 2008, 22, 1295-1309.	2.2	57
150	Spatial Data Integrability and Interoperability in the Context of SDI. , 2008, , 401-413.		0
151	Assessing the worldwide comparison of cadastral systems. <i>Land Use Policy</i> , 2007, 24, 275-288.	2.5	32
152	The role of sub-national government and the private sector in future spatial data infrastructures. <i>International Journal of Geographical Information Science</i> , 2006, 20, 727-741.	2.2	84
153	Marine administration and spatial data infrastructure. <i>Marine Policy</i> , 2006, 30, 431-441.	1.5	56
154	Using SDI and web-based system to facilitate disaster management. <i>Computers and Geosciences</i> , 2006, 32, 303-315.	2.0	143
155	Administering the marine environment – the spatial dimension. <i>Journal of Spatial Science</i> , 2005, 50, 69-78.	1.0	11
156	Assessing the worldwide developments of national spatial data clearinghouses. <i>International Journal of Geographical Information Science</i> , 2004, 18, 665-689.	2.2	137
157	Are SDIs serving the needs of local planning? Case study of Victoria, Australia and Illinois, USA. <i>Computers, Environment and Urban Systems</i> , 2004, 28, 329-351.	3.3	38
158	Evaluation of land administration systems. <i>Land Use Policy</i> , 2004, 21, 371-380.	2.5	86
159	Future directions for SDI development. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2002, 4, 11-22.	1.4	119
160	Hierarchical Spatial Reasoning Applied to Spatial Data Infrastructures. <i>Journal of Spatial Science</i> , 2000, 29, 41-50.	0.2	12
161	Evaluating the role of partnerships in increasing the use of big Earth data to support the Sustainable Development Goals: an Australian perspective. <i>Big Earth Data</i> , 0, , 1-30.	2.0	2