Sergio Rey

List of Publications by Year
in descending order

109 papers	3,621 citations	257357 24 h-index	155592 55 g-index
112 all docs	112 docs citations	112 times ranked	2316 citing authors

#	Article	IF	Citations
1	US Regional Income Convergence: A Spatial Econometric Perspective. Regional Studies, 1999, 33, 143-156.	2.5	688
2	Specification searches in spatial econometrics: the relevance of Hendry's methodology. Regional Science and Urban Economics, 2003, 33, 557-579.	1.4	341
3	*Spatial Empirics for Economic Growth and Convergence*. Geographical Analysis, 2001, 33, 195-214.	1.9	308
4	Regional convergence, inequality, and space. Journal of Economic Geography, 2005, 5, 155-176.	1.6	243
5	THE MAX-*P*-REGIONS PROBLEM*. Journal of Regional Science, 2012, 52, 397-419.	2.1	138
6	STARS: Space-Time Analysis of Regional Systems. Geographical Analysis, 2006, 38, 67-86.	1.9	135
7	PySAL: A Python Library of Spatial Analytical Methods. , 2010, , 175-193.		116
8	Show me the code: spatial analysis and open source. Journal of Geographical Systems, 2009, 11, 191-207.	1.9	77
9	PySAL: A Python Library of Spatial Analytical Methods. Review of Regional Studies, 2007, 37, .	0.4	69
10	Visualizing regional income distribution dynamics. Letters in Spatial and Resource Sciences, 2011, 4, 81-90.	1.2	67
11	A spatial decomposition of the Gini coefficient. Letters in Spatial and Resource Sciences, 2013, 6, 55-70.	1.2	63
12	A framework for exploratory space-time analysis of economic data. Annals of Regional Science, 2013, 50, 315-339.	1.0	62
13	Change over 70 years in a southern California chaparral community related to fire history. Journal of Vegetation Science, 2004, 15, 701-710.	1.1	60
14	?-convergence in the presence of spatial effects. Papers in Regional Science, 2006, 85, 217-234.	1.0	60
15	Exploratory Space–Time Analysis of Burglary Patterns. Journal of Quantitative Criminology, 2012, 28, 509-531.	2.0	57
16	Integrated regional econometric+input-output modeling: Issues and opportunities. Papers in Regional Science, 2000, 79, 271-292.	1.0	49
17	Spatial econometrics in an age of CyberGIScience. International Journal of Geographical Information Science, 2012, 26, 2211-2226.	2.2	48
18	The Performance of Alternative Integration Strategies for Combining Regional Econometric and Input-Output Models. International Regional Science Review, 1998, 21, 1-35.	1.0	41

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19	An econometric approach for evaluating the linkages between broadband and knowledge intensive firms. Telecommunications Policy, 2014, 38, 105-118.	2.6	41
20	Recent Advances in Software for Spatial Analysis in the Social Sciences. Geographical Analysis, 2006, 38, 1-4.	1.9	39
21	Spatial patterns of tropical forest trees in Western Polynesia suggest recruitment limitations during secondary succession. Journal of Tropical Ecology, 2007, 23, 1-12.	0.5	39
22	Exploring movement object patterns. Annals of Regional Science, 2012, 49, 471-484.	1.0	38
23	Spatial Analysis of Economic Convergence. , 2009, , 1251-1290.		38
24	Interregional Inequality Dynamics in Mexico. Spatial Economic Analysis, 2010, 5, 277-298.	0.8	36
25	Perspectives on Spatial Data Analysis. Advances in Spatial Science, 2010, , 1-20.	0.3	29
26	Open Geospatial Analytics with PySAL. ISPRS International Journal of Geo-Information, 2015, 4, 815-836.	1.4	27
27	Dispersal limitation, speciation, environmental filtering and niche differentiation influence forest tree communities in West Polynesia. Journal of Biogeography, 2013, 40, 988-999.	1.4	24
28	Space–Time Patterns of Rank Concordance: Local Indicators of Mobility Association with Application to Spatial Income Inequality Dynamics. Annals of the American Association of Geographers, 2016, 106, 788-803.	1.5	24
29	Metadata and provenance for spatial analysis: the case of spatial weights. International Journal of Geographical Information Science, 2014, 28, 2261-2280.	2.2	23
30	Uncertainty in Integrated Regional Models. Economic Systems Research, 2004, 16, 259-277.	1.2	22
31	Comparative Spatial Dynamics of Regional Systems. Advances in Spatial Science, 2010, , 441-463.	0.3	22
32	ThePySALEcosystem: Philosophy and Implementation. Geographical Analysis, 2022, 54, 467-487.	1.9	21
33	The spatial dimension of economic growth and convergence. Papers in Regional Science, 2006, 85, 171-176.	1.0	20
34	Parallel optimal choropleth map classification in PySAL. International Journal of Geographical Information Science, 2013, 27, 1023-1039.	2.2	20
35	Integrating Econometric and Input-Output Models in a Multiregional Context. Growth and Change, 1997, 28, 222-243.	1.3	19
36	A comment on specification searches in spatial econometrics: The relevance of Hendry's methodology: A reply. Regional Science and Urban Economics, 2006, 36, 300-308.	1.4	19

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37	Effects of Irregular Topology in Spherical Self-Organizing Maps. International Regional Science Review, 2011, 34, 215-229.	1.0	19
38	Spatial Optimization Models for Water Supply Allocation. Water Resources Management, 2012, 26, 2243-2257.	1.9	19
39	Open regional science. Annals of Regional Science, 2014, 52, 825-837.	1.0	18
40	Parallel Processing over Spatial-Temporal Datasets from Geo, Bio, Climate and Social Science Communities: A Research Roadmap. , 2017, , .		18
41	The properties of tests for spatial effects in discrete Markov chain models of regional income distribution dynamics. Journal of Geographical Systems, 2016, 18, 377-398.	1.9	17
42	Comparative spatial inequality dynamics: The case of Mexico and the United States. Applied Geography, 2015, 61, 70-80.	1.7	14
43	Parallelization of a regionalization heuristic in distributed computing platforms â€" a case study of parallel-<i>p</i>-compact-regions problem. International Journal of Geographical Information Science, 2015, 29, 536-555.	2.2	14
44	The centralization index: A measure of local spatial segregation. Papers in Regional Science, 2016, 95, 555-577.	1.0	14
45	An evaluation of sampling and full enumeration strategies for Fisher Jenks classification in big data settings. Transactions in GIS, 2017, 21, 796-810.	1.0	14
46	Spatially filtered ridge regression (SFRR): A regression framework to understanding impacts of land cover patterns on urban climate. Transactions in GIS, 2017, 21, 862-879.	1.0	14
47	Bells in Space. International Regional Science Review, 2018, 41, 152-182.	1.0	14
48	Impact of spatial effects on income segregation indices. Computers, Environment and Urban Systems, 2011, 35, 431-441.	3.3	13
49	Efficient regionalization for spatially explicit neighborhood delineation. International Journal of Geographical Information Science, 2021, 35, 135-151.	2.2	13
50	An open software environment to make spatial access metrics more accessible. Journal of Computational Social Science, 2022, 5, 265-284.	1.4	13
51	Rank-based Markov chains for regional income distribution dynamics. Journal of Geographical Systems, 2014, 16, 115-137.	1.9	12
52	Space-time income distribution dynamics in Mexico. Annals of GIS, 2013, 19, 195-207.	1.4	11
53	PySAL: the first 10 years. Spatial Economic Analysis, 2019, 14, 273-282.	0.8	11
54	An open-source framework for non-spatial and spatial segregation measures: the PySAL segregation module. Journal of Computational Social Science, 2020, 3, 135-166.	1.4	10

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55	Temporal dynamics in local vehicle ownership for Great Britain. Journal of Transport Geography, 2017, 62, 30-37.	2.3	9
56	Sensitivity of sequence methods in the study of neighborhood change in the United States. Computers, Environment and Urban Systems, 2020, 81, 101480.	3.3	9
57	Open Source Software for Spatial Data Science. Geographical Analysis, 2022, 54, 429-438.	1.9	9
58	Integrated regional econometric+input–output modeling: Issues and opportunities. Papers in Regional Science, 2000, 79, 271-292.	1.0	8
59	Population shift bias in tests of space–time interaction. Computers, Environment and Urban Systems, 2012, 36, 500-512.	3.3	8
60	Conditional and joint tests for spatial effects in discrete Markov chain models of regional income distribution dynamics. Annals of Regional Science, 2018, 61, 73-93.	1.0	8
61	Spatial approaches to measure subnational inequality: Implications for Sustainable Development Goals. Development Policy Review, 2018, 36, O657.	1.0	8
62	Code as Text: Open Source Lessons for Geospatial Research and Education. Advances in Geographic Information Science, 2018, , 7-21.	0.3	8
63	MODIS vegetation metrics as indicators of hydrological response in watersheds of California Mediterranean-type climate zones. Remote Sensing of Environment, 2010, 114, 2513-2523.	4.6	7
64	A MapReduce algorithm to create contiguity weights for spatial analysis of big data. , 2014, , .		7
65	A Probabilistic Approach to Address Data Uncertainty in Regionalization. Geographical Analysis, 2022, 54, 405-426.	1.9	7
66	Change over 70 years in a southern California chaparral community related to fire history. Journal of Vegetation Science, 2004, 15, 701.	1.1	6
67	Sex Offender Residential Movement Patterns: A Markov Chain Analysis. Professional Geographer, 2014, 66, 102-111.	1.0	5
68	Mathematical Models in Geography. , 2015, , 785-790.		5
69	Inference for Income Mobility Measures in the Presence of Spatial Dependence. International Regional Science Review, 2020, 43, 10-39.	1.0	5
70	A Visual Analytics System for Space–Time Dynamics of Regional Income Distributions Utilizing Animated Flow Maps and Rank–based Markov Chains. Geographical Analysis, 2020, 52, 537-557.	1.9	5
71	Geosilhouettes: Geographical measures of cluster fit. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 521-539.	1.0	5
72	Building Educational Capacity for Inclusive Geocomputation: A Research-Practice Partnership in Southern California. Journal of Geography, 2021, 120, 152-159.	1.8	5

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73	The open source dynamics in geospatial research and education. Journal of Spatial Information Science, 2014, , .	1.1	5
74	spopt: a python package for solving spatial optimization problems in PySAL. Journal of Open Source Software, 2022, 7, 3330.	2.0	5
75	Accounting for the Environmental â€œBottom Lineâ€•along the U.S.-Mexico Border. Annals of the American Association of Geographers, 2003, 93, 67-88.	3.0	4
76	Fast algorithms for a space-time concordance measure. Computational Statistics, 2014, 29, 799-811.	0.8	4
77	Defining geographical boundaries with social and technical variables to improve urban energy assessments. Energy, 2016, 112, 742-754.	4.5	4
78	Looking at John Snowâ€™s Cholera Map from the Twenty First Century: A Practical Primer on Reproducibility and Open Science. Advances in Spatial Science, 2017, , 283-306.	0.3	4
79	Regional inequality dynamics, stochastic dominance, and spatial dependence. Papers in Regional Science, 2019, 98, 861-882.	1.0	4
80	Comparative Spatial Segregation Analytics. Spatial Demography, 2021, 9, 31-56.	0.4	4
81	Geographical Python Teaching Resources: geopyter. Journal of Geographical Systems, 2021, 23, 579-597.	1.9	4
82	Coefficient Change in Embedded Econometric and Inputâ€"Output Models at the Regional Level. Economic Systems Research, 1997, 9, 307-330.	1.2	3
83	Spatio-temporal analysis of industrial composition with IVIID: an interactive visual analytics interface for industrial diversity. Journal of Geographical Systems, 2014, 16, 183-209.	1.9	3
84	Obstacle-avoiding shortest path derivation in a multicore computing environment. Computers, Environment and Urban Systems, 2016, 55, 1-10.	3.3	3
85	When Spatial Analytics Meets Cyberinfrastructure: an Interoperable and Replicable Platform for Online Spatial-Statistical-Visual Analytics. Journal of Geovisualization and Spatial Analysis, 2020, 4, 1.	2.1	3
86	Geographical Analysis: Reflections of a Recovering Editor. Geographical Analysis, 2021, 53, 38-46.	1.9	3
87	spaghetti: spatial network analysis in PySAL. Journal of Open Source Software, 2021, 6, 2826.	2.0	3
88	Spatial Dynamics and Space-Time Data Analysis. , 2014, , 1365-1383.		3
89	The max$p$compactregions problem. Transactions in GIS, 2022, 26, 717-734.	1.0	3
90	Walter Isard?s influence on analytical human geographic research. Journal of Geographical Systems, 2004, 6, 3-6.	1.9	2

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91	Spatio-temporal analysis of meta-data semantics of market shares over large public geosocial media data. Journal of Location Based Services, 2018, 12, 215-230.	1.4	2
92	Smoothed Estimators for Markov Chains with Sparse Spatial Observations. Geographical Analysis, 2021, 53, 307-328.	1.9	2
93	splot - visual analytics for spatial statistics. Journal of Open Source Software, 2020, 5, 1882.	2.0	2
94	Integrating Econometric and Input-Output Models in a Multiregional Context. Growth and Change, 1997, 28, 222-243.	1.3	2
95	Big Code. Geographical Analysis, 2023, 55, 211-224.	1.9	2
96	Heterogeneous tree recruitment following disturbance in insular tropical forest, Kingdom of Tonga. Journal of Tropical Ecology, 2016, 32, 536-542.	0.5	1
97	On the lumpability of regional income convergence. Letters in Spatial and Resource Sciences, 2016, 9, 265-275.	1.2	1
98	Object Orientation, Open Regional Science, and Cumulative Knowledge Building. Advances in Spatial Science, 2017, , 259-282.	0.3	1
99	Python for GIS. Geographic Information Science & Technology Body of Knowledge, 2024, 2024, .	0.1	1
100	Changes in the economic status of neighbourhoods in US metropolitan areas from 1980 to 2010: Stability, growth and polarisation. Urban Studies, 2022, 59, 2774-2800.	2.2	1
101	Manipulation of spatial weights using web services. , 2009, , .		1
102	Spatial Data Analytics on Homogeneous Multi-Core Parallel Architectures. , 2016, , 1-10.		1
103	Spatial Dynamics and Space-Time Data Analysis. , 2019, , 1-18.		1
104	Neighborhood Effects and Neighborhood Dynamics. Geographical Analysis, 2021, 53, 167-169.	1.9	0
105	Spatial Dynamics and Space-Time Data Analysis. , 2021, , 2017-2034.		0
106	A Portrait in Four Encounters: William Alonso. International Regional Science Review, 2001, 24, 293-301.	1.0	0
107	Using Space Time Approaches to Understand Regional Inequality in Mongolia: Implications for Sustainable Development Goals. SSRN Electronic Journal, 0, , .	0.4	0
108	Are Foreclosures Contagious?. International Journal of Applied Geospatial Research, 2013, 4, 19-36.	0.2	0

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109	Spatial Data Analytics on Homogeneous Multi-Core Parallel Architectures. , 2017, , 1972-1981.		0