

Nicola Surian

List of Publications by Year in descending order

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68
papers

4,396
citations

172207

29
h-index

133063

59
g-index

83
all docs

83
docs citations

83
times ranked

2759
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological response to river engineering and management in alluvial channels in Italy. <i>Geomorphology</i> , 2003, 50, 307-326.	1.1	551
2	A review of techniques available for delimiting the erodible river corridor: a sustainable approach to managing bank erosion. <i>River Research and Applications</i> , 2005, 21, 773-789.	0.7	299
3	Sediment mining in alluvial channels: physical effects and management perspectives. <i>River Research and Applications</i> , 2005, 21, 805-828.	0.7	239
4	A method for the assessment and analysis of the hydromorphological condition of Italian streams: The Morphological Quality Index (MQI). <i>Geomorphology</i> , 2013, 180-181, 96-108.	1.1	229
5	Channel changes due to river regulation: the case of the Piave River, Italy. , 1999, 24, 1135-1151.		226
6	A multi-scale hierarchical framework for developing understanding of river behaviour to support river management. <i>Aquatic Sciences</i> , 2016, 78, 1-16.	0.6	191
7	Channel adjustments and vegetation cover dynamics in a large gravel bed river over the last 200 years. <i>Geomorphology</i> , 2011, 125, 147-159.	1.1	170
8	Multi-thread river channels: A perspective on changing European alpine river systems. <i>Aquatic Sciences</i> , 2009, 71, 253-265.	0.6	159
9	Island dynamics in a braided river from analysis of historical maps and air photographs. <i>River Research and Applications</i> , 2008, 24, 1141-1159.	0.7	147
10	Channel adjustments and alteration of sediment fluxes in gravelâ€bed rivers of Northâ€Eastern Italy: potentials and limitations for channel recovery. <i>River Research and Applications</i> , 2009, 25, 551-567.	0.7	139
11	Understanding reference processes: linkages between river flows, sediment dynamics and vegetated landforms along the Tagliamento River, Italy. <i>River Research and Applications</i> , 2009, 25, 501-516.	0.7	121
12	Evolutionary trajectory of channel morphology and controlling factors in a large gravel-bed river. <i>Geomorphology</i> , 2012, 173-174, 104-117.	1.1	117
13	Characterizing geomorphological change to support sustainable river restoration and management. <i>Wiley Interdisciplinary Reviews: Water</i> , 2014, 1, 483-512.	2.8	111
14	Channel adjustments, bedload transport and sediment sources in a gravelâ€bed river, Brenta River, Italy. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1641-1656.	1.2	98
15	Channel response to extreme floods: Insights on controlling factors from six mountain rivers in northern Apennines, Italy. <i>Geomorphology</i> , 2016, 272, 78-91.	1.1	89
16	A methodological framework for hydromorphological assessment, analysis and monitoring (IDRAIM) aimed at promoting integrated river management. <i>Geomorphology</i> , 2015, 251, 122-136.	1.1	84
17	Geomorphic response to an extreme flood in two Mediterranean rivers (northeastern Sardinia, Italy): Analysis of controlling factors. <i>Geomorphology</i> , 2017, 290, 184-199.	1.1	81
18	Downstream variation in grain size along an Alpine river: analysis of controls and processes. <i>Geomorphology</i> , 2002, 43, 137-149.	1.1	80

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19	Vegetation turnover in a braided river: frequency and effectiveness of floods of different magnitude. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 542-558.	1.2	76
20	Morphological effects of different channel-forming discharges in a gravel-bed river. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1093-1107.	1.2	74
21	Reduced-complexity modeling of braided rivers: Assessing model performance by sensitivity analysis, calibration, and validation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2243-2262.	1.0	64
22	New tools for the hydromorphological assessment and monitoring of European streams. <i>Journal of Environmental Management</i> , 2017, 202, 363-378.	3.8	63
23	Bed material transport estimate in large gravel-bed rivers using the virtual velocity approach. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 595-611.	1.2	57
24	Channelization of a large Alpine river: what is left of its original morphodynamics?. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1044-1062.	1.2	57
25	Effects of an extreme flood on river morphology (case study: Karoon River, Iran). <i>Geomorphology</i> , 2018, 304, 30-39.	1.1	56
26	Observations on sediment mobility in a large gravel-bed river. <i>Geomorphology</i> , 2010, 114, 326-337.	1.1	52
27	Odonates as indicators of the ecological integrity of the river corridor: Development and application of the Odonate River Index (ORI) in northern Italy. <i>Ecological Indicators</i> , 2016, 61, 234-247.	2.6	52
28	Basin-scale analysis of the geomorphic effectiveness of flash floods: A study in the northern Apennines (Italy). <i>Science of the Total Environment</i> , 2018, 640-641, 337-351.	3.9	48
29	Channel adjustments in northern and central Italy over the last 200 years. , 2009, , .		45
30	An integrated approach for investigating geomorphic response to extreme events: methodological framework and application to the <sc>October</sc> 2011 flood in the Magra River catchment, <sc>Italy</sc>. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 835-846.	1.2	45
31	Virtual Velocity Approach for Estimating Bed Material Transport in Gravel-Bed Rivers: Key Factors and Significance. <i>Water Resources Research</i> , 2019, 55, 1651-1674.	1.7	41
32	Reduced braiding of rivers in human-modified landscapes: Converging trajectories and diversity of causes. <i>Earth-Science Reviews</i> , 2019, 188, 291-311.	4.0	33
33	Sediment-water flows in mountain streams: Recognition and classification based on field evidence. <i>Geomorphology</i> , 2020, 371, 107413.	1.1	32
34	Exploring the role of trees in the evolution of meander bends: The <sc>T</sc>agliamento <sc>R</sc>iver, <sc>I</sc>taly. <i>Water Resources Research</i> , 2017, 53, 5943-5962.	1.7	30
35	Geomorphological evolution and sediment transfer in the Piave River system (northeastern Italy) since the Last Glacial Maximum. <i>Geomorphologie Relief, Processus, Environnement</i> , 2009, 15, 155-174.	0.7	28
36	Reconstructing temporal changes and prediction of channel evolution in a large Alpine river: the Tagliamento river, Italy. <i>Aquatic Sciences</i> , 2016, 78, 83-94.	0.6	24

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37	Implications of channel processes for juvenile fish habitats in Alpine rivers. <i>Aquatic Sciences</i> , 2009, 71, 338-349.	0.6	23
38	Assessing Restoration Effects on River Hydromorphology Using the Process-based Morphological Quality Index in Eight European River Reaches. <i>Environmental Management</i> , 2018, 61, 69-84.	1.2	23
39	Response of A Gravel Bed River To Dam Closure: Insights From Sediment Transport Processes And Channel Morphodynamics. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 756-770.	1.2	23
40	The first continuous Late Glacial Holocene peat bog multi-proxy record from the Dolomites (NE Italy). <i>Journal of Quaternary Science</i> , 2019, 34, 107-117.	0.7	22
41	Channel changes of the Adige River (Eastern Italian Alps) over the last 1000 years and identification of the historical fluvial corridor. <i>Journal of Maps</i> , 2018, 14, 680-691.	1.0	22
42	Detailed assessment of spatial and temporal variations in river channel changes and meander evolution as a preliminary work for effective floodplain management. The example of Sajó River, Hungary. <i>Journal of Environmental Management</i> , 2019, 248, 109277.	3.8	21
43	Towards a more comprehensive assessment of river corridor conditions: A comparison between the Morphological Quality Index and three biotic indices. <i>Ecological Indicators</i> , 2018, 84, 525-534.	2.6	20
44	Channel Changes and Controlling Factors over the Past 150 Years in the Basento River (Southern Italy). <i>Journal of Environmental Management</i> , 2019, 248, 109277.	1.2	20
45	Interplay between river dynamics and international borders: The Hirmand River between Iran and Afghanistan. <i>Science of the Total Environment</i> , 2017, 586, 492-501.	3.9	17
46	Channel Adjustments in Iranian Rivers: A Review. <i>Water (Switzerland)</i> , 2019, 11, 672.	1.2	16
47	Geomorphological study of the Fadalto landslide, Venetian Prealps, Italy. <i>Geomorphology</i> , 1996, 15, 337-350.	1.1	13
48	Assessment of the geomorphic effectiveness of controlled floods in a braided river using a reduced-complexity numerical model. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3229-3250.	1.9	13
49	Estimation of geomorphically significant flows in alpine streams of the Rocky Mountains, Colorado (USA). <i>Journal of Hydrology</i> , 1999, 15, 273-288.		10
50	Alteration of gravel-bed river morphodynamics in response to multiple anthropogenic disturbances: Insights from the sediment-starved Parma River (northern Italy). <i>Geomorphology</i> , 2021, 389, 107845.	1.1	10
51	Sediment-water flows in mountain catchments: Insights into transport mechanisms as responses to high-magnitude hydrological events. <i>Journal of Hydrology</i> , 2021, 602, 126716.	2.3	10
52	Flow recession as a driver of the morpho-texture of braided streams. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 754-770.	1.2	9
53	The Italian Rivers. <i>Journal of Environmental Management</i> , 2009, 88, 467-495.		8
54	Geomorphological Approaches for River Management and Restoration in Italian and French Rivers. <i>Geophysical Monograph Series</i> , 0, 95-113.	0.1	7

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55	The retreat of theÂdelta: a geomorphological history of the Po river basin during the twentieth century. <i>Water History</i> , 2021, 13, 117-136.	0.5	7
56	Timing, drivers and impacts of the historic Masiere diÂVedana rock avalanche (Belluno Dolomites,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	10
57	How multiple foliations may control large gravitational phenomena: A case study from the Cison Valley, Eastern Alps, Italy. <i>Geomorphology</i> , 2014, 207, 149-160.	1.1	6
58	Fluvial Processes in Braided Rivers. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2015, , 403-425.	0.2	6
59	IDRAIM: A Methodological Framework for Hydromorphological Analysis and Integrated River Management of Italian Streams. , 2015, , 301-304.		5
60	Remote Sensing as a Tool for Analysing Channel Dynamics and Geomorphic Effects of Floods. Springer Remote Sensing/photogrammetry, 2018, , 27-59.	0.4	4
61	Channel changes due to river regulation: the case of the Piave River, Italy. , 1999, 24, 1135.		4
62	Driving factors of short-term channel changes in a semi-arid area (Sahand Mountain, northwestern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	3
63	Pre-Alpine and Alpine deformation at San Pellegrino pass (Dolomites, Italy). <i>Journal of Maps</i> , 2018, 14, 671-679.	1.0	3
64	Fluvial Changes in the Anthropocene: A European Perspective. , 2021, , 561-561.		3
65	The Tagliamento River: The Fluvial Landscape and Long-Term Evolution of a Large Alpine Braided River. <i>World Geomorphological Landscapes</i> , 2017, , 157-167.	0.1	3
66	A widthâ€based approach to estimating historical changes in coarse sediment fluxes at river reach and network scales. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2560-2579.	1.2	3
67	Survey of the vaia storm deposits in the tegnas catchment (Dolomites, Italy): Field data and evidence of sediment-water flow types. <i>Data in Brief</i> , 2020, 33, 106415.	0.5	2
68	River Channelization. , 2007, , 986-990.		0