

# Marco Antonellini

## List of Publications by Year in descending order

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75  
papers

2,590  
citations

257450

24  
h-index

197818

49  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure of deformation bands in porous sandstones at Arches National Park, Utah. <i>Journal of Structural Geology</i> , 1994, 16, 941-959.	2.3	337
2	The role of deformation bands, stylolites and sheared stylolites in fault development in carbonate grainstones of Majella Mountain, Italy. <i>Journal of Structural Geology</i> , 2006, 28, 376-391.	2.3	169
3	From fractures to flow: A field-based quantitative analysis of an outcropping carbonate reservoir. <i>Tectonophysics</i> , 2010, 490, 197-213.	2.2	155
4	Saltwater intrusion in the unconfined coastal aquifer of Ravenna (Italy): A numerical model. <i>Journal of Hydrology</i> , 2007, 340, 91-104.	5.4	145
5	Salt water intrusion in the coastal aquifer of the southern Po Plain, Italy. <i>Hydrogeology Journal</i> , 2008, 16, 1541-1556.	2.1	121
6	Distinct element modeling of deformation bands in sandstone. <i>Journal of Structural Geology</i> , 1995, 17, 1165-1182.	2.3	107
7	Impact of Population Growth and Climate Change on the Freshwater Resources of Lamu Island, Kenya. <i>Water (Switzerland)</i> , 2015, 7, 1264-1290.	2.7	106
8	Impact of groundwater salinity on vegetation species richness in the coastal pine forests and wetlands of Ravenna, Italy. <i>Ecological Engineering</i> , 2010, 36, 1201-1211.	3.6	92
9	Formation and growth of normal faults in carbonates within a compressive environment. <i>Geology</i> , 2003, 31, 11.	4.4	90
10	Hydrochemical and physical processes influencing salinization and freshening in Mediterranean low-lying coastal environments. <i>Applied Geochemistry</i> , 2013, 34, 207-221.	3.0	71
11	Development of strike-slip faults in the dolomites of the Sella Group, Northern Italy. <i>Journal of Structural Geology</i> , 1999, 21, 273-292.	2.3	69
12	Fluid flow numerical experiments of faulted porous carbonates, Northwest Sicily (Italy). <i>Marine and Petroleum Geology</i> , 2014, 55, 186-201.	3.3	65
13	Fault and fracture systems in a fold and thrust belt: An example from Bolivia. <i>AAPG Bulletin</i> , 2005, 89, 471-493.	1.5	63
14	Failure modes in deep-water carbonates and their impact for fault development: Majella Mountain, Central Apennines, Italy. <i>Marine and Petroleum Geology</i> , 2008, 25, 1074-1096.	3.3	63
15	Water and (bio)chemical cycling in gravel pit lakes: A review and outlook. <i>Earth-Science Reviews</i> , 2016, 159, 247-270.	9.1	48
16	Deformation along the leading edge of the Maiella thrust sheet in central Italy. <i>Journal of Structural Geology</i> , 2010, 32, 1291-1304.	2.3	45
17	Petrophysical study of faults in sandstone using petrographic image analysis and X-ray computerized tomography. <i>Pure and Applied Geophysics</i> , 1994, 143, 181-201.	1.9	41
18	Climate and water budget change of a Mediterranean coastal watershed, Ravenna, Italy. <i>Environmental Earth Sciences</i> , 2012, 65, 257-276.	2.7	41

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19	High-Resolution Electrical Resistivity Tomography (ERT) to Characterize the Spatial Extension of Freshwater Lenses in a Salinized Coastal Aquifer. <i>Water (Switzerland)</i> , 2018, 10, 1067.	2.7	40
20	Assessment of Water Resources Availability and Groundwater Salinization in Future Climate and Land use Change Scenarios: A Case Study from a Coastal Drainage Basin in Italy. <i>Water Resources Management</i> , 2016, 30, 731-745.	3.9	35
21	Coastal aquifer response to extreme storm events in Emilia-Romagna, Italy. <i>Hydrological Processes</i> , 2017, 31, 1613-1621.	2.6	29
22	Groundwater freshening following coastal progradation and land reclamation of the Po Plain, Italy. <i>Hydrogeology Journal</i> , 2015, 23, 1009-1026.	2.1	27
23	Structural control on karst water circulation and speleogenesis in a lithological contact zone: The Bossea cave system (Western Alps, Italy). <i>Geomorphology</i> , 2019, 345, 106832.	2.6	26
24	Seasonal variation in natural recharge of coastal aquifers. <i>Hydrogeology Journal</i> , 2013, 21, 787-797.	2.1	25
25	First reported occurrence of deformation bands in a platform limestone, the Jurassic Calcare Massiccio Fm., northern Apennines, Italy. <i>Tectonophysics</i> , 2014, 628, 85-104.	2.2	24
26	Fault development through fractured pelagic carbonates of the Cingoli anticline, Italy: Possible analog for subsurface fluid-conductive fractures. <i>Journal of Structural Geology</i> , 2012, 45, 21-37.	2.3	23
27	An integrated methodology to assess future water resources under land use and climate change: an application to the Tahadart drainage basin (Morocco). <i>Environmental Earth Sciences</i> , 2014, 71, 1839-1853.	2.7	23
28	Water budget management of a coastal pine forest in a Mediterranean catchment (Marina Romea, Tuscany). <i>Journal of Hydrology</i> , 2015, 530, 100-110.	2.7	21
29	Processes governing natural land subsidence in the shallow coastal aquifer of the Ravenna coast, Italy. <i>Catena</i> , 2019, 172, 76-86.	5.0	21
30	Metal accumulation in an artificially recharged gravel pit lake used for drinking water supply. <i>Journal of Geochemical Exploration</i> , 2015, 150, 35-51.	3.2	20
31	Natural and anthropogenic factors affecting freshwater lenses in coastal dunes of the Adriatic coast. <i>Journal of Hydrology</i> , 2017, 551, 804-818.	5.4	20
32	Microstructural, petrophysical, and mechanical properties of compactive shear bands associated to calcite cement concretions in arkose sandstone. <i>Journal of Structural Geology</i> , 2019, 126, 51-68.	2.3	19
33	Outcrop-aided characterization of a faulted hydrocarbon reservoir: Arroyo Grande Oil Field, California, USA. <i>Geophysical Monograph Series</i> , 1999, , 7-26.	0.1	18
34	Hydrogeochemical characterization of small coastal wetlands and forests in the Southern Po plain (Northern Italy). <i>Ecohydrology</i> , 2011, 4, 597-607.	2.4	17
35	Seasonal dynamic of a shallow freshwater lens due to irrigation in the coastal plain of Ravenna, Italy. <i>Hydrogeology Journal</i> , 2014, 22, 893-909.	2.1	17
36	Freshwater resource characterization and vulnerability to climate change of the Shela aquifer in Lamu, Kenya. <i>Environmental Earth Sciences</i> , 2015, 73, 3801-3817.	2.7	17

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37	Structural control on epigenic gypsum caves: evidences from Messinian evaporites (Northern Tj ETQq1 1 0.784314 rrgBT /Overlock 1017	2.6	17
38	Curvature analysis as a tool for subsidence-related risk zones identification in the city of Tuzla (BiH). <i>Geomorphology</i> , 2009, 107, 316-325.	2.6	16
39	Constraints upon fault zone properties by combined structural analysis of virtual outcrop models and discrete fracture network modelling. <i>Journal of Structural Geology</i> , 2021, 152, 104444.	2.3	15
40	Syn-thrusting polygonal normal faults exposed in the hinge of the Cingoli anticline, northern Apennines, Italy. <i>Frontiers in Earth Science</i> , 2015, 3, .	1.8	14
41	Barometric pressure influence on water table fluctuations in coastal aquifers of partially enclosed seas: An example from the Adriatic coast, Italy. <i>Journal of Hydrology</i> , 2011, 400, 176-186.	5.4	13
42	The influence of flow through saline gravel pit lakes on the hydrologic budget and hydrochemistry of a Mediterranean drainage basin. <i>Limnology and Oceanography</i> , 2015, 60, 2009-2025.	3.1	13
43	Application of analytical diffusion models to outcrop observations: Implications for mass transport by fluid flow through fractures. <i>Water Resources Research</i> , 2017, 53, 5545-5566.	4.2	12
44	In-situ quantification of mechanical and permeability properties on outcrop analogues of offshore fractured and weathered crystalline basement: Examples from the Rolvsnes granodiorite, BÅmlo, Norway. <i>Marine and Petroleum Geology</i> , 2021, 124, 104859.	3.3	12
45	Structurally controlled development of a sulfuric hypogene karst system in a fold-and-thrust belt (Majella Massif, Italy). <i>Journal of Structural Geology</i> , 2021, 145, 104305.	2.3	12
46	Structural control on fluid flow and shallow diagenesis: insights from calcite cementation along deformation bands in porous sandstones. <i>Solid Earth</i> , 2020, 11, 2169-2195.	2.8	12
47	Relations between sill intrusions and bedding-parallel extensional shear zones in the Mid-continent Rift System of the Lake Superior region. <i>Tectonophysics</i> , 1992, 212, 331-349.	2.2	11
48	Forest fire effects on groundwater in a coastal aquifer (Ravenna, Italy). <i>Hydrological Processes</i> , 2018, 32, 2377-2389.	2.6	11
49	Effects of an extreme flood event on an alpine karst system. <i>Journal of Hydrology</i> , 2020, 590, 125493.	5.4	11
50	Factors Affecting Water Drainage Long-Time Series in the Salinized Low-Lying Coastal Area of Ravenna (Italy). <i>Water (Switzerland)</i> , 2020, 12, 256.	2.7	11
51	Evolution of Salinity and Water Table Level of the Phreatic Coastal Aquifer of the Emilia Romagna Region (Italy). <i>Water (Switzerland)</i> , 2021, 13, 372.	2.7	11
52	Irrigation Management in Coastal Zones to Prevent Soil and Groundwater Salinization. , 0, , .		10
53	Pressure solution inhibition in a limestone-chert composite multilayer: Implications for the seismic cycle and fluid flow. <i>Tectonophysics</i> , 2015, 646, 96-105.	2.2	10
54	Polygonal deformation bands. <i>Journal of Structural Geology</i> , 2015, 81, 45-58.	2.3	10

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55	Silicification, flow pathways, and deep-seated hypogene dissolution controlled by structural and stratigraphic variability in a carbonate-siliciclastic sequence (Brazil). <i>Marine and Petroleum Geology</i> , 2022, 139, 105611.	3.3	10
56	Assessment of the Main Geochemical Processes Affecting Surface Water and Groundwater in a Low-Lying Coastal Area: Implications for Water Management. <i>Water (Switzerland)</i> , 2020, 12, 1720.	2.7	9
57	Characterization of sub-seismic resolution structural diagenetic heterogeneities in porous sandstones: Combining ground-penetrating radar profiles with geomechanical and petrophysical in situ measurements (Northern Apennines, Italy). <i>Marine and Petroleum Geology</i> , 2020, 117, 104375.	3.3	9
58	Fracture patterns and fault development in the pelagic limestones of the Monte Conero Anticline (Italy). <i>Italian Journal of Geosciences</i> , 2015, 134, 495-512.	0.8	9
59	Modeling ground displacement above reservoirs undergoing fluid withdrawal/injection based on an ellipsoidal inhomogeneity model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 79, 63-69.	5.8	8
60	Assessment of Seasonal Changes in Water Chemistry of the Ridracoli Water Reservoir (Italy): Implications for Water Management. <i>Water (Switzerland)</i> , 2020, 12, 581.	2.7	8
61	Data-driven models of groundwater salinization in coastal plains. <i>Journal of Hydrology</i> , 2015, 531, 187-197.	5.4	7
62	The Effect of Artificial Recharge on Hydrochemistry: A Comparison of Two Fluvial Gravel Pit Lakes with Different Post-Excavation Uses in The Netherlands. <i>Water (Switzerland)</i> , 2016, 8, 409.	2.7	7
63	Climate Proof Fresh Water Supply in Coastal Areas and Deltas in Europe. <i>Water Resources Management</i> , 2017, 31, 583-586.	3.9	7
64	Freshwater-seawater mixing experiments in sand columns. <i>Journal of Hydrology</i> , 2012, 448-449, 112-118.	5.4	6
65	Chert nodules in pelagic limestones as paleo-stress indicators: A 3D geomechanical analysis. <i>Journal of Structural Geology</i> , 2020, 132, 103979.	2.3	6
66	Measuring Salinity within Shallow Piezometers: Comparison of Two Field Methods. <i>Journal of Water Resource and Protection</i> , 2010, 02, 251-258.	0.8	6
67	RIGED-RA project - Restoration and management of Coastal Dunes in the Northern Adriatic Coast, Ravenna Area - Italy. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 44, 052038.	0.3	5
68	Outcrop fracture network characterization for unraveling deformation sequence, geomechanical properties distribution, and slope stability in a flysch sequence (Monte Venere Formation, Northern Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
69	The Influence of River Bottom Topography on Salt Water Encroachment Along the Lamone River (Ravenna, Italy), and Implications for the Salinization of the Adjacent Coastal Aquifer. , 2010, , .		4
70	INFILTRATION/IRRIGATION TRENCH FOR SUSTAINABLE COASTAL DRAINAGE MANAGEMENT: EMILIA-ROMAGNA (ITALY). <i>Environmental Engineering and Management Journal</i> , 2018, 17, 2379-2390.	0.6	4
71	Modelling Projected Changes in Soil Water Budget in Coastal Kenya under Different Long-Term Climate Change Scenarios. <i>Water (Switzerland)</i> , 2020, 12, 2455.	2.7	2
72	Different processes affecting long-term Ravenna coastal drainage basins (Italy): implications for water management. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	2

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73	Geothermal characterization of the coastal aquifer near Ravenna (Italy). <i>Acque Sotterranee - Italian Journal of Groundwater</i> , 0, , .	0.3	1
74	Hydrologic control on natural land subsidence in the shallow coastal aquifer of the Ravenna coast, Italy. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 263-268.	1.0	1
75	Reply to Comment by Trinchero et al. on "Application of Analytical Diffusion Models to Outcrop Observations: Implications for Mass Transport by Fluid Flow Through Fractures". <i>Water Resources Research</i> , 2018, 54, 9706-9707.	4.2	0