Timothy A Quine

List of Publications by Year
in descending order

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Version: 2024-02-01

96 papers	5,937 citations	94269 37 h-index	85405 71 g-index
99 all docs	99 docs citations	99 times ranked	5478 citing authors

#	Article	IF	Citations
1	The Impact of Agricultural Soil Erosion on the Global Carbon Cycle. Science, 2007, 318, 626-629.	6.0	802
2	Increased atmospheric vapor pressure deficit reduces global vegetation growth. Science Advances, 2019, 5, eaax1396.	4.7	755
3	Use of 137Cs measurements to investigate soil erosion on arable fields in the UK: potential applications and limitations. Journal of Soil Science, 1991, 42, 147-165.	1.2	238
4	Calibration of caesium-137 measurements to provide quantitative erosion rate data. Land Degradation and Development, 1990, 2, 161-175.	1.8	216
5	Tillage erosion: a review of controlling factors and implications for soil quality. Progress in Physical Geography, 2006, 30, 443-466.	1.4	174
6	REVIEW: The role of ecosystems and their management in regulating climate, and soil, water and air quality. Journal of Applied Ecology, 2013, 50, 812-829.	1.9	169
7	Patterns of rock fragment cover generated by tillage erosion. Geomorphology, 1997, 18, 183-197.	1.1	166
8	THE RELATIVE CONTRIBUTION OF SOIL TILLAGE AND OVERLAND FLOW EROSION TO SOIL REDISTRIBUTION ON AGRICULTURAL LAND. , 1996, 21, 929-946.		160
9	Landscape-scale modeling of carbon cycling under the impact of soil redistribution: The role of tillage erosion. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	144
10	Stocks and dynamics of SOC in relation to soil redistribution by water and tillage erosion. Global Change Biology, 2006, 12, 1834-1841.	4.2	118
11	An experimental investigation of autogenic behaviour during alluvial fan evolution. Geomorphology, 2010, 115, 278-285.	1.1	96
12	Distinguishing the impacts of land use and climate change on ecosystem services in a karst landscape in China. Ecosystem Services, 2020, 46, 101199.	2.3	92
13	Bedrock geochemistry influences vegetation growth by regulating the regolith water holding capacity. Nature Communications, 2020, 11, 2392.	5.8	87
14	Soil erosion and redistribution on cultivated and uncultivated land near las bardenas in the central Ebro river Basin, Spain. Land Degradation and Development, 1994, 5, 41-55.	1.8	85
15	Erosion processes and landform evolution on agricultural land â€" new perspectives from caesium-137 measurements and topographic-based erosion modelling. Earth Surface Processes and Landforms, 1997, 22, 799-816.	1.2	85
16	From water to tillage erosion dominated landform evolution. Geomorphology, 2005, 72, 193-203.	1.1	83
17	Soil functions and ecosystem services research in the Chinese karst Critical Zone. Chemical Geology, 2019, 527, 119107.	1.4	82
18	Soil erosion rates on sloping cultivated land on the Loess Plateau near Ansai, Shaanxi Province, China: An investigation using137Cs and rill measurements. , 1998, 12, 171-189.		79

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19	Quantifying carbon sequestration as a result of soil erosion and deposition: retrospective assessment using caesium-137 and carbon inventories. Global Change Biology, 2007, 13, 2610-2625.	4.2	79
20	Accelerated sediment fluxes by water and tillage erosion on European agricultural land. Earth Surface Processes and Landforms, 2009, 34, 1625-1634.	1.2	77
21	Testing the utility of structureâ€fromâ€motion photogrammetry reconstructions using small unmanned aerial vehicles and ground photography to estimate the extent of upland soil erosion. Earth Surface Processes and Landforms, 2017, 42, 1860-1871.	1.2	73
22	Tillage erosion and its effect on soil properties and crop yield in Denmark. Journal of Environmental Quality, 2005, 34, 312-24.	1.0	73
23	Fires prime terrestrial organic carbon for riverine export to the global oceans. Nature Communications, 2020, 11, 2791.	5.8	71
24	Rates of soil erosion on arable fields in Britain: quantitative data from caesium-137 measurements. Soil Use and Management, 1991, 7, 169-176.	2.6	62
25	Nitrogen functional gene activity in soil profiles under progressive vegetative recovery after abandonment of agriculture at the Puding Karst Critical Zone Observatory, SW China. Soil Biology and Biochemistry, 2018, 125, 93-102.	4.2	62
26	Modeling alluvial landform change in the absence of external environmental forcing. Geology, 2007, 35, 527.	2.0	61
27	Crossing the divide: Representation of channels and processes in reduced-complexity river models at reach and landscape scales. Geomorphology, 2007, 90, 318-339.	1.1	58
28	Cellular modelling as a tool for interpreting historic braided river evolution. Geomorphology, 2007, 90, 302-317.	1.1	57
29	Comment on "Managing Soil Carbon" (I). Science, 2004, 305, 1567b-1567b.	6.0	55
30	USE OF RESERVOIR DEPOSITS AND CAESIUM-137 MEASUREMENTS TO INVESTIGATE THE EROSIONAL RESPONSE OF A SMALL DRAINAGE BASIN IN THE ROLLING LOESS PLATEAU REGION OF CHINA. , 1997, 8, 1-16.		54
31	The fate of buried organic carbon in colluvial soils: a long-term perspective. Biogeosciences, 2014, 11, 873-883.	1.3	52
32	Fine-earth translocation by tillage in stony soils in the Guadalentin, south-east Spain: an investigation using caesium-1341Paper presented at International Symposium on Tillage Translocation and Tillage Erosion held in conjunction with the 52nd Annual Conference of the Soil and Water Conservation Society, Toronto, Canada. 24â€“25 July, 1997.1. Soil and Tillage Research, 1999, 51, 279-301.	2.6	51
33	Tillage erosion, water erosion and soil quality on cultivated terraces near Xifeng in the Loess Plateau, China. , 1999, 10, 251-274.		50
34	Nitrogen loss from karst area in China in recent 50Âyears: AnÂinâ€situ simulated rainfall experiment's assessment. Ecology and Evolution, 2017, 7, 10131-10142.	0.8	49
35	USING CHERNOBYL-DERIVED FALLOUT RADIONUCLIDES TO INVESTIGATE THE ROLE OF DOWNSTREAM CONVEYANCE LOSSES IN THE SUSPENDED SEDIMENT BUDGET OF THE RIVER SEVERN, UNITED KINGDOM. Physical Geography, 1993, 14, 239-253.	0.6	48
36	Modeling Translocation and Dispersion of Soil Constituents by Tillage on Sloping Land. Soil Science Society of America Journal, 2000, 64, 1733-1739.	1.2	48

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37	Sediment transport by overland flow over an area of net deposition. , 1999, 13, 2769-2782.		47
38	Simulation of the redistribution of soil by tillage on complex topographies. European Journal of Soil Science, 2003, 54, 63-76.	1.8	47
39	Human activity vs. climate change: Distinguishing dominant drivers on LAI dynamics in karst region of southwest China. Science of the Total Environment, 2021, 769, 144297.	3.9	45
40	Spatially-explicit regional-scale prediction of soil organic carbon stocks in cropland using environmental variables and mixed model approaches. Geoderma, 2013, 204-205, 31-42.	2.3	44
41	Sustained high magnitude erosional forcing generates an organic carbon sink: Test and implications in the Loess Plateau, China. Earth and Planetary Science Letters, 2015, 411, 281-289.	1.8	40
42	Spatial variability and change in soil organic carbon stocks in response to recovery following land abandonment and erosion in mountainous drylands. Soil Use and Management, 2013, 29, 65-76.	2.6	39
43	The persistence of bacterial diversity and ecosystem multifunctionality along a disturbance intensity gradient in karst soil. Science of the Total Environment, 2020, 748, 142381.	3.9	39
44	National-scale geodata describe widespread accelerated soil erosion. Geoderma, 2020, 371, 114378.	2.3	39
45	An evaluation of micromorphology as an aid to archaeological interpretation. Geoarchaeology - an International Journal, 1992, 7, 55-65.	0.7	38
46	Rock crevices determine woody and herbaceous plant cover in the karst critical zone. Science China Earth Sciences, 2019, 62, 1756-1763.	2.3	35
47	Variability in 137Cs inventories and potential climatic and lithological controls in the central Ebro valley, Spain. Journal of Radioanalytical and Nuclear Chemistry, 2007, 274, 331-339.	0.7	34
48	Use of caesium-137 data for validation of spatially distributed erosion models: the implications of tillage erosion. Catena, 1999, 37, 415-430.	2.2	32
49	Rare microbial taxa rather than phoD gene abundance determine hotspots of alkaline phosphomonoesterase activity in the karst rhizosphere soil. Biology and Fertility of Soils, 2021, 57, 257-268.	2.3	32
50	A numerical modelling and experimental study of flow width dynamics on alluvial fans. Earth Surface Processes and Landforms, 2009, 34, 1985-1993.	1.2	31
51	Contribution of soil microbial necromass to SOC stocks during vegetation recovery in a subtropical karst ecosystem. Science of the Total Environment, 2021, 761, 143945.	3.9	31
52	Soil enzyme activity and stoichiometry along a gradient of vegetation restoration at the Karst Critical Zone Observatory in Southwest China. Land Degradation and Development, 2019, 30, 1916-1927.	1.8	30
53	Future C loss in mid-latitude mineral soils: climate change exceeds land use mitigation potential in France. Scientific Reports, 2016, 6, 35798.	1.6	29
54	Estimation of Soil Carbon Input in France: An Inverse Modelling Approach. Pedosphere, 2013, 23, 422-436.	2.1	27

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55	Relating Intensity of Soil Redistribution to Land Use Changes in Abandoned Pyrenean Fields Using Fallout Caesiumâ€137. Land Degradation and Development, 2017, 28, 2017-2029.	1.8	26
56	Micro-scale interactions between Arabidopsis root hairs and soil particles influence soil erosion. Communications Biology, 2020, 3, 164.	2.0	24
57	Investigating the controls on soil organic matter decomposition in tussock tundra soil and permafrost after fire. Soil Biology and Biochemistry, 2016, 99, 108-116.	4.2	23
58	Ecosystem service delivery in Karst landscapes: anthropogenic perturbation and recovery. Acta Geochimica, 2017, 36, 416-420.	0.7	22
59	Tracing of particulate organic C sources across the terrestrial-aquatic continuum, a case study at the catchment scale (Carminowe Creek, southwest England). Science of the Total Environment, 2018, 616-617, 1077-1088.	3.9	22
60	Arable soil formation and erosion: a hillslope-based cosmogenic nuclide study in the United Kingdom. Soil, 2019, 5, 253-263.	2.2	22
61	Do Regional Aerosols Contribute to the Riverine Export of Dissolved Black Carbon?. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2925-2938.	1.3	21
62	Quantitative assessment of landform equifinality and palaeoenvironmental reconstruction using geomorphic models. Geomorphology, 2010, 121, 167-183.	1.1	20
63	Insights into the future of soil erosion. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23205-23207.	3.3	20
64	Redistribution of Soil Organic Carbon Induced by Soil Erosion in the Nine River Basins of China. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1018-1031.	1.3	19
65	Drought-modulated allometric patterns of trees in semi-arid forests. Communications Biology, 2020, 3, 405.	2.0	19
66	Analysis of fundamental physical factors influencing channel bank erosion: results for contrasting catchments in England and Wales. Environmental Earth Sciences, 2017, 76, 1.	1.3	18
67	Using caesiumâ€134 and cobaltâ€60 as tracers to assess the remobilization of recentlyâ€deposited overbankâ€derived sediment on river floodplains during subsequent inundation events. Earth Surface Processes and Landforms, 2014, 39, 228-244.	1.2	16
68	Environmental Controls on the Riverine Export of Dissolved Black Carbon. Global Biogeochemical Cycles, 2019, 33, 849-874.	1.9	16
69	Persistence of soil microbial function at the rockâ€soil interface in degraded karst topsoils. Land Degradation and Development, 2020, 31, 251-265.	1.8	16
70	Tillage erosion intensity in the South Canterbury Downlands, New Zealand. Soil Research, 2003, 41, 789.	0.6	15
71	Contrasting rhizosphere soil nutrient economy of plants associated with arbuscular mycorrhizal and ectomycorrhizal fungi in karst forests. Plant and Soil, 2022, 470, 81-93.	1.8	15
72	Soil microbial populations in deep floodplain soils are adapted to infrequent but regular carbon substrate addition. Soil Biology and Biochemistry, 2018, 122, 60-70.	4.2	14

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73	Analysing and simulating spatial patterns of crop yield in Guizhou Province based on artificial neural networks. Progress in Physical Geography, 2021, 45, 33-52.	1.4	14
74	Application of the Caesium-137 Technique in a Study of Soil Erosion on Gully Slopes in a Yuan Area of the Loess Plateau Near Xifeng, Gansu Province, China. Geografiska Annaler, Series A: Physical Geography, 1994, 76, 103-120.	0.6	13
75	Rainfall driven transport of carbon and nitrogen along karst slopes and associative interaction characteristic. Journal of Hydrology, 2019, 573, 246-254.	2.3	13
76	Using Î´13C to reveal the importance of different water transport pathways in two nested karst basins, Southwest China. Journal of Hydrology, 2019, 571, 425-436.	2.3	12
77	Mapping mean total annual precipitation in Belgium, by investigating the scale of topographic control at the regional scale. Journal of Hydrology, 2016, 540, 96-105.	2.3	11
78	An evaluation of the hysteresis in chemical concentrationâ€“discharge (Câ€“Q) relationships from drained, intensively managed grasslands in southwest England. Hydrological Sciences Journal, 2017, 62, 1243-1254.	1.2	10
79	Changes in the biological N2-fixation rates and diazotrophic community as vegetation recovers on abandoned farmland in a karst region of China. Applied Soil Ecology, 2021, 158, 103808.	2.1	10
80	Decoupled heatwave-tree growth in large forest patches of Larix sibirica in northern Mongolian Plateau. Agricultural and Forest Meteorology, 2021, 311, 108667.	1.9	10
81	Soil burial reduces decomposition and offsets erosionâ€induced soil carbon losses in the Indian Himalaya. Global Change Biology, 2022, 28, 1643-1658.	4.2	10
82	Fluvial transport and redistribution of Chernobyl fallout radionuclides. Hydrobiologia, 1992, 235-236, 231-246.	1.0	9
83	Chemical Characteristics of Flow Driven by Rainfall and Associated Impacts on Shallow Groundwater Quality in a Karst Watershed, Southwest China. Environmental Processes, 2021, 8, 615-636.	1.7	9
84	Migration and leaching characteristics of base cation: indicating environmental effects on soil alkalinity in a karst area. Environmental Science and Pollution Research, 2018, 25, 20899-20910.	2.7	8
85	Holocene carbon accumulation in lakes of the current east Asian monsoonal margin: Implications under a changing climate. Science of the Total Environment, 2020, 737, 139723.	3.9	7
86	Periodic Relations between Terrestrial Vegetation and Climate Factors across the Globe. Remote Sensing, 2020, 12, 1805.	1.8	7
87	Tree-ring Î´18O identifies similarity in timing but differences in depth of soil water uptake by trees in mesic and arid climates. Agricultural and Forest Meteorology, 2021, 308-309, 108569.	1.9	7
88	Dynamics of soil organic carbon following land-use change: insights from stable C-isotope analysis in black soil of Northeast China. Acta Geochimica, 2018, 37, 746-757.	0.7	6
89	Main controls on the denitrification rates during cropland revegetation in the southwest China Karst Critical Zone Observatory. Agriculture, Ecosystems and Environment, 2021, 308, 107228.	2.5	6
90	High forest stand density exacerbates growth decline of conifers driven by warming but not broad-leaved trees in temperate mixed forest in northeast Asia. Science of the Total Environment, 2021, 795, 148875.	3.9	6

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91	A process-based model reveals the restoration gap of degraded grasslands in Inner Mongolian steppe. Science of the Total Environment, 2022, 806, 151324.	3.9	5
92	Modeling soil erosion between 1985 and 2014 in three watersheds on the carbonate-rock dominated Guizhou Plateau, SW China, using WaTEM/SEDEM. Progress in Physical Geography, 2021, 45, 53-81.	1.4	4
93	Geomorphology and terrestrial carbon cycling. Earth Surface Processes and Landforms, 2013, 38, 103-105.	1.2	3
94	How Can We Realize Sustainable Development Goals in Rocky Desertified Regions by Enhancing Crop Yield with Reduction of Environmental Risks?. Remote Sensing, 2021, 13, 1614.	1.8	3
95	Soil erosion rates on sloping cultivated land on the Loess Plateau near Ansai, Shaanxi Province, China: an investigation using 137Cs and rill measurements. Hydrological Processes, 1998, 12, 171-189.	1.1	2
96	Reproducibility, open science and progression in soil erosion research. A reply to â€œResponse to â€˜National-scale geodata describe widespread accelerated soil erosionâ€™ Benaud et al. (2020) Geoderma 271, 114378â€•by Evans and Boardman (2021). Geoderma, 2021, 402, 115181.	2.3	1