

# Anthony John Parsons

## List of Publications by Year in descending order

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112  
papers

6,019  
citations

53751

45  
h-index

74108

75  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two classes of functional connectivity in dynamical processes in networks. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210486.	1.5	7
2	Connectivity in hydrology and sediment dynamics. <i>Land Degradation and Development</i> , 2020, 31, 2525-2528.	1.8	9
3	How reliable are our methods for estimating soil erosion by water?. <i>Science of the Total Environment</i> , 2019, 676, 215-221.	3.9	52
4	A low-cost bench-top research device for turbidity measurement by radially distributed illumination intensity sensing at multiple wavelengths. <i>HardwareX</i> , 2019, 5, e00052.	1.1	14
5	Perspectives and ambitions of interdisciplinary connectivity researchers. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 537-548.	1.9	4
6	The geomorphic cell: a basis for studying connectivity. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1155-1159.	1.2	22
7	Virtual velocity of sand transport in water. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 755-761.	1.2	4
8	Application of RFID to Soil-Erosion Research. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2511.	1.3	6
9	Connectivity and complex systems: learning from a multi-disciplinary perspective. <i>Applied Network Science</i> , 2018, 3, 11.	0.8	101
10	A review of the principles of turbidity measurement. <i>Progress in Physical Geography</i> , 2017, 41, 620-642.	1.4	72
11	Introduction to special issue on connectivity in water and sediment dynamics. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1275-1277.	1.2	72
12	What is suspended sediment?. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1417-1420.	1.2	30
13	The concept of transport capacity in geomorphology. <i>Reviews of Geophysics</i> , 2015, 53, 1155-1202.	9.0	54
14	Connectivity in dryland landscapes: shifting concepts of spatial interactions. <i>Frontiers in Ecology and the Environment</i> , 2015, 13, 20-27.	1.9	161
15	Experimental investigation into the impact of a liquid droplet onto a granular bed using three-dimensional, time-resolved, particle tracking. <i>Physical Review E</i> , 2014, 89, 032201.	0.8	45
16	The use of RFID in soil erosion research. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1693-1696.	1.2	4
17	Modeling emergent patterns of dynamic desert ecosystems. <i>Ecological Monographs</i> , 2014, 84, 373-410.	2.4	40
18	Land Degradation in Drylands: An Ecogeomorphological Approach. , 2014, , 1-9.		4

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19	Abandonment of Agricultural Land, Agricultural Policy and Land Degradation in Mediterranean Europe. , 2014, , 357-366.		3
20	Land Degradation in Drylands: Revaluating Pattern-Process Interrelationships and the Role of Ecogeomorphology. , 2014, , 367-383.		1
21	The Study of Land Degradation in Drylands: State of the Art. , 2014, , 13-54.		3
22	Short-Range Ecogeomorphic Processes in Dryland Systems. , 2014, , 85-101.		3
23	Long-Range Ecogeomorphic Processes. , 2014, , 103-139.		3
24	Integrating Short- and Long-Range Processes into Models: The Emergence of Pattern. , 2014, , 141-167.		2
25	Perceptions of desert landscape: a case study in southern New Mexico. Area, 2013, 45, 459-468.	1.0	1
26	How useful are catchment sediment budgets?. Progress in Physical Geography, 2012, 36, 60-71.	1.4	71
27	On the formation of sand ramps: A case study from the Mojave Desert. Geomorphology, 2012, 161-162, 93-109.	1.1	34
28	A new approach for simulating the redistribution of soil particles by water erosion: A marker-cell model. Journal of Geophysical Research, 2012, 117, .	3.3	16
29	Linking runoff and erosion dynamics to nutrient fluxes in a degrading dryland landscape. Journal of Geophysical Research, 2012, 117, .	3.3	18
30	What can we learn about soil erosion from the use of <sup>137</sup> Cs?. Earth-Science Reviews, 2011, 108, 101-113.	4.0	159
31	Using sediment travel distance to estimate medium-term erosion rates: a 16-year record. Earth Surface Processes and Landforms, 2010, 35, 1694-1700.	1.2	13
32	Standing proud: a response to "Soil erosion models: where do we really stand?" by Smith et al. Earth Surface Processes and Landforms, 2010, 35, 1349-1356.	1.2	8
33	Vegetation controls on small-scale runoff and erosion dynamics in a degrading dryland environment. Hydrological Processes, 2009, 23, 1617-1630.	1.1	75
34	Response to Hairsine's and Sander's "Comment on "A transport-distance based approach to scaling erosion rates". Parts 1, 2 and 3 by Wainwright et al." Earth Surface Processes and Landforms, 2009, 34, 886-890.	1.2	7
35	Response to Kinnell's "Comment on "A transport-distance approach to scaling erosion rates: III. Evaluating scaling characteristics of Mahreran". Earth Surface Processes and Landforms, 2009, 34, 1320-1321.	1.2	2
36	Do Changes in Connectivity Explain Desertification?. BioScience, 2009, 59, 237-244.	2.2	200

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37	Geomorphology of Desert Environments. , 2009, , 3-7.		40
38	Pediments in Arid Environments. , 2009, , 377-411.		23
39	Rock-Mantled Slopes. , 2009, , 233-263.		9
40	Spatial variability of soil and nutrient characteristics of semi-arid grasslands and shrublands, Jornada Basin, New Mexico. Ecohydrology, 2008, 1, 3-12.	1.1	19
41	A transport-distance approach to scaling erosion rates: 3. Evaluating scaling characteristics of Mahleran. Earth Surface Processes and Landforms, 2008, 33, 1113-1128.	1.2	42
42	A transport-distance approach to scaling erosion rates: 2. sensitivity and evaluation of Mahleran. Earth Surface Processes and Landforms, 2008, 33, 962-984.	1.2	38
43	A transport-distance approach to scaling erosion rates: 1. Background and model development. Earth Surface Processes and Landforms, 2008, 33, 813-826.	1.2	87
44	Is sediment delivery a fallacy? Reply. Earth Surface Processes and Landforms, 2008, 33, 1630-1631.	1.2	27
45	Scale relationships in hillslope runoff and erosion Reply. Earth Surface Processes and Landforms, 2008, 33, 1637-1638.	1.2	8
46	Sediment transfer and storage in dryland headwater streams. Geomorphology, 2007, 88, 152-166.	1.1	24
47	Impact of connectivity on the modeling of overland flow within semiarid shrubland environments. Water Resources Research, 2007, 43, .	1.7	77
48	The stability of vegetation boundaries and the propagation of desertification in the American Southwest: A modelling approach. Ecological Modelling, 2007, 208, 91-101.	1.2	38
49	Upscaling understanding of nitrogen dynamics associated with overland flow in a semi-arid environment. Biogeochemistry, 2007, 82, 265-278.	1.7	32
50	Spatial patterns of scour and fill in dryland sand bed streams. Water Resources Research, 2006, 42, .	1.7	11
51	Effects of intra-storm variations in rainfall intensity on interrill runoff and erosion. Catena, 2006, 67, 68-78.	2.2	138
52	Islands of hydrologically enhanced biotic productivity in natural and managed arid ecosystems. Journal of Arid Environments, 2006, 65, 235-252.	1.2	70
53	A conceptual model for sediment and nutrient fluxes from rural land. International Journal of Biodiversity Science and Management, 2006, 2, 232-234.	0.7	0
54	Scale relationships in hillslope runoff and erosion. Earth Surface Processes and Landforms, 2006, 31, 1384-1393.	1.2	214

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55	Is sediment delivery a fallacy?. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1325-1328.	1.2	139
56	Whither Geomorphology (re-)revisited. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1595-1596.	1.2	7
57	Depth distribution of interrill overland flow and the formation of rills. <i>Hydrological Processes</i> , 2006, 20, 1511-1523.	1.1	27
58	Streambed scour and fill in low-order dryland channels. <i>Water Resources Research</i> , 2005, 41, .	1.7	25
59	A conceptual model for determining soil erosion by water. <i>Earth Surface Processes and Landforms</i> , 2004, 29, 1293-1302.	1.2	105
60	Disposition of rainwater under creosotebush. <i>Hydrological Processes</i> , 2003, 17, 2555-2566.	1.1	36
61	Geomorphological palaeoenvironments of the Sneeuwberg Range, Great Karoo, South Africa. <i>Journal of Quaternary Science</i> , 2003, 18, 801-813.	1.1	22
62	The role of overland flow in sediment and nitrogen budgets of mesquite dunefields, southern New Mexico. <i>Journal of Arid Environments</i> , 2003, 53, 61-71.	1.2	51
63	Development of badlands and gullies in the Sneeuwberg, Great Karoo, South Africa. <i>Catena</i> , 2003, 50, 165-184.	2.2	109
64	Linking Short- and Long-Term Soil Erosion Modelling. , 2003, , 37-51.		7
65	Hydrology-vegetation interactions in areas of discontinuous flow on a semi-arid bajada, Southern New Mexico. <i>Journal of Arid Environments</i> , 2002, 51, 319-338.	1.2	97
66	The effect of temporal variations in rainfall on scale dependency in runoff coefficients. <i>Water Resources Research</i> , 2002, 38, 7-1-7-10.	1.7	151
67	Rainfall simulation in geomorphology. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 679-679.	1.2	8
68	Spatial and temporal variation in two rainfall simulators: implications for spatially explicit rainfall simulation experiments. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 709-721.	1.2	45
69	Uncertainty in modelling the detachment of soil by rainfall. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 723-728.	1.2	22
70	Emergence and erosion: a model for rill initiation and development. <i>Hydrological Processes</i> , 2000, 14, 2173-2205.	1.1	103
71	Plot-scale studies of vegetation, overland flow and erosion interactions: case studies from Arizona and New Mexico. <i>Hydrological Processes</i> , 2000, 14, 2921-2943.	1.1	247
72	Nutrient losses in runoff from grassland and shrubland habitats in Southern New Mexico: I. rainfall simulation experiments. <i>Biogeochemistry</i> , 1999, 45, 21-34.	1.7	139

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73	Field and computer simulation experiments on the formation of desert pavement. Earth Surface Processes and Landforms, 1999, 24, 1025-1037.	1.2	39
74	Transmission losses in rills on dryland hillslopes. Hydrological Processes, 1999, 13, 2897-2905.	1.1	20
75	Title is missing!. Biogeochemistry, 1999, 45, 21-34.	1.7	41
76	Rainfall energy under creosotebush. Journal of Arid Environments, 1999, 43, 111-120.	1.2	62
77	Sediment-transport competence of rain-impacted interrill overland flow. Earth Surface Processes and Landforms, 1998, 23, 365-375.	1.2	44
78	Experimental analysis of size and distance of travel of unconstrained particles in interrill flow. Water Resources Research, 1998, 34, 2377-2381.	1.7	23
79	Sensitivity of Sediment-Transport Equations to Errors in Hydraulic Models of Overland Flow. , 1998, , 271-284.		8
80	Distributed dynamic modelling of interrill overland flow. Hydrological Processes, 1997, 11, 1833-1859.	1.1	60
81	Responses of interrill runoff and erosion rates to vegetation change in southern Arizona. Geomorphology, 1996, 14, 311-317.	1.1	102
82	Rill hydraulics on a semiarid hillslope, southern Arizona. Earth Surface Processes and Landforms, 1996, 21, 35-47.	1.2	130
83	A simulation study of the role of raindrop erosion in the formation of desert pavements. Earth Surface Processes and Landforms, 1995, 20, 277-291.	1.2	49
84	Effects of vegetation change on interrill runoff and erosion, Walnut Gulch, southern Arizona. Geomorphology, 1995, 13, 37-48.	1.1	174
85	Effects of vegetation change on interrill runoff and erosion, Walnut Gulch, southern Arizona. , 1995, , 37-48.		4
86	Geomorphology of Desert Environments. , 1994, , 3-12.		17
87	On determining resistance to interrill overland flow. Water Resources Research, 1994, 30, 3515-3521.	1.7	63
88	Resistance to overland flow on semiarid grassland and shrubland hillslopes, Walnut Gulch, southern Arizona. Journal of Hydrology, 1994, 156, 431-446.	2.3	133
89	Rainsplash and erosion rates in an interrill area on semi-arid grassland, Southern Arizona. Catena, 1994, 22, 215-226.	2.2	64
90	Hydraulics of interrill overland flow on stone-covered desert surfaces. Catena, 1994, 23, 111-140.	2.2	95

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91	Rock-Mantled Slopes. , 1994, , 173-212.		11
92	Tracing sediment movement in interrill overland flow on a semi-arid grassland hillslope using magnetic susceptibility. <i>Earth Surface Processes and Landforms</i> , 1993, 18, 721-732.	1.2	53
93	Sediment sources and sediment transport by rill flow and interrill flow on a semi-arid piedmont slope, southern Arizona. <i>Catena</i> , 1993, 20, 93-111.	2.2	33
94	Microtopography and soil-surface materials on semi-arid piedmont hillslopes, southern Arizona. <i>Journal of Arid Environments</i> , 1992, 22, 107-115.	1.2	141
95	Relation between infiltration and stone cover on a semiarid hillslope, southern Arizona. <i>Journal of Hydrology</i> , 1991, 122, 49-59.	2.3	158
96	Resistance to Overland Flow on Desert Pavement and Its Implications for Sediment Transport Modeling. <i>Water Resources Research</i> , 1991, 27, 1827-1836.	1.7	80
97	The effect of spatial variability in overland flow on the downslope pattern of soil loss on a semiarid hillslope, southern Arizona. <i>Catena</i> , 1991, 18, 255-270.	2.2	47
98	Size characteristics of sediment in interrill overland flow on a semiarid hillslope, Southern Arizona. <i>Earth Surface Processes and Landforms</i> , 1991, 16, 143-152.	1.2	79
99	Relation between sediment yield and gradient on debris-covered hillslopes, Walnut Gulch, Arizona. <i>Bulletin of the Geological Society of America</i> , 1991, 103, 1109-1113.	1.6	23
100	Determining the mean depth of overland flow in field studies of flow hydraulics. <i>Water Resources Research</i> , 1990, 26, 501-503.	1.7	57
101	Hydraulics of interrill overland flow on a semi-arid hillslope, southern Arizona. <i>Journal of Hydrology</i> , 1990, 117, 255-273.	2.3	56
102	A MINIATURE FLUME FOR SAMPLING INTERRILL OVERLAND FLOW. <i>Physical Geography</i> , 1989, 10, 85-94.	0.6	11
103	Distribution of depth of overland flow on desert hillslopes and its implications for modeling soil erosion. <i>Journal of Hydrology</i> , 1989, 106, 177-184.	2.3	41
104	Threshold relations for the transport of sediment by overland flow on desert hillslopes. <i>Earth Surface Processes and Landforms</i> , 1988, 13, 407-419.	1.2	15
105	Hydrologic and sediment responses to simulated rainfall on desert hillslopes in southern Arizona. <i>Catena</i> , 1988, 15, 103-117.	2.2	82
106	Gradient-Particle Size Relations on Quartz Monzonite Debris Slopes in the Mojave Desert. <i>Journal of Geology</i> , 1987, 95, 423-432.	0.7	21
107	Resistance to overland flow on desert hillslopes. <i>Journal of Hydrology</i> , 1986, 88, 343-363.	2.3	131
108	Field measurement of the velocity of overland flow using dye tracing. <i>Earth Surface Processes and Landforms</i> , 1986, 11, 653-657.	1.2	133

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109	METHODOLOGY: A SIMPLE RAINFALL SIMULATOR AND TRICKLE SYSTEM FOR HYDRO-GEOMORPHOLOGICAL EXPERIMENTS. <i>Physical Geography</i> , 1986, 7, 344-356.	0.6	84
110	Hillslope Gradient-Particle Size Relations: Evidence for the Formation of Debris Slopes by Hydraulic Processes in the Mojave Desert. <i>Journal of Geology</i> , 1985, 93, 347-357.	0.7	27
111	Stone movement on hillslopes in the Mojave Desert, California: A 16-year record. <i>Earth Surface Processes and Landforms</i> , 1984, 9, 365-370.	1.2	31
112	A New Conceptual Framework for Understanding and Predicting Erosion by Water from Hillslopes and Catchments. , 0, , .		4