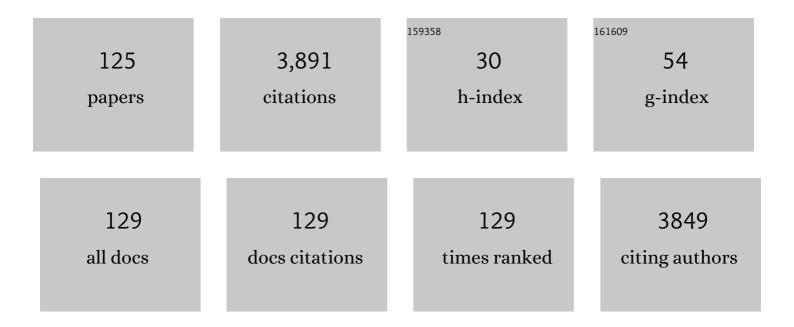
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Controlling factors of microplastic fibre settling through a water column. Science of the Total Environment, 2022, 838, 156011.	3.9	18
2	Influence of surface roughness on methane flow in shale kerogen nano-slits. Journal of Natural Gas Science and Engineering, 2022, 103, 104650.	2.1	15
3	Time- and depth-resolved mechanistic assessment of water stress in Australian ecosystems under the CMIP6 scenarios. Advances in Water Resources, 2021, 148, 103837.	1.7	4
4	The promise and challenges of utility-scale compressed air energy storage in aquifers. Applied Energy, 2021, 286, 116513.	5.1	28
5	Risk of pesticide pollution at the global scale. Nature Geoscience, 2021, 14, 206-210.	5.4	451
6	Spatiotemporal Assessment of GHC Emissions and Nutrient Sequestration Linked to Agronutrient Runoff in Global Wetlands. Global Biogeochemical Cycles, 2021, 35, e2020GB006816.	1.9	18
7	Measurements of the relative permeability to CO 2 â€andâ€brine multiphase fluid of Paaratte formation at nearâ€reservoir conditions. , 2021, 11, 697-711.		0
8	Pedotransfer functions for estimating soil hydraulic properties from saturation to dryness. Geoderma, 2021, 403, 115194.	2.3	15
9	Estimated decline in global earthworm population size caused by pesticide residue in soil. Soil Security, 2021, 5, 100014.	1.2	5
10	The pesticide health risk index - An application to the world's countries. Science of the Total Environment, 2021, 801, 149731.	3.9	23
11	Carbon, Nitrogen, and Sulfur Elemental Fluxes in the Soil and Exchanges with the Atmosphere in Australian Tropical, Temperate, and Arid Wetlands. Atmosphere, 2021, 12, 42.	1.0	4
12	SOIL-WATERGRIDS, mapping dynamic changes in soil moisture and depth of water table from 1970 to 2014. Scientific Data, 2021, 8, 263.	2.4	4
13	A simple pre-factor for contaminant biodegradation potential and its application to pesticides risk assessment. Mathematics and Computers in Simulation, 2020, 175, 108-120.	2.4	1
14	Biodegradation and Abiotic Degradation of Trifluralin: A Commonly Used Herbicide with a Poorly Understood Environmental Fate. Environmental Science & Technology, 2020, 54, 10399-10410.	4.6	25
15	Similarities and differences in the sensitivity of soil organic matter (SOM) dynamics to biogeochemical parameters for different vegetation inputs and climates. Stochastic Environmental Research and Risk Assessment, 2020, 34, 2229-2244.	1.9	3
16	Probabilistic indicators for soil and groundwater contamination risk assessment. Ecological Indicators, 2020, 115, 106424.	2.6	17
17	Numerical investigation of microscale dynamic contact angles of the CO2–water–silica system using coarse-grained molecular approach. Computational Mechanics, 2020, 66, 707-722.	2.2	1
18	Sinking of microbial-associated microplastics in natural waters. PLoS ONE, 2020, 15, e0228209.	1.1	41

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19	The global environmental hazard of glyphosate use. Science of the Total Environment, 2020, 717, 137167.	3.9	165
20	A Mechanistic Analysis of Wetland Biogeochemistry in Response to Temperature, Vegetation, and Nutrient Input Changes. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005437.	1.3	10
21	Influential sources of uncertainty in glyphosate biochemical degradation in soil. Mathematics and Computers in Simulation, 2020, 175, 121-139.	2.4	5
22	Sinking of microbial-associated microplastics in natural waters. , 2020, 15, e0228209.		0
23	Sinking of microbial-associated microplastics in natural waters. , 2020, 15, e0228209.		Ο
24	Sinking of microbial-associated microplastics in natural waters. , 2020, 15, e0228209.		0
25	Sinking of microbial-associated microplastics in natural waters. , 2020, 15, e0228209.		Ο
26	Hourly and daily rainfall intensification causes opposing effects on C and N emissions, storage, and leaching in dry and wet grasslands. Biogeochemistry, 2019, 144, 197-214.	1.7	12
27	PEST-CHEMGRIDS, global gridded maps of the top 20 crop-specific pesticide application rates from 2015 to 2025. Scientific Data, 2019, 6, 170.	2.4	168
28	Ozone and particle fluxes in a Mediterranean forest predicted by the AIRTREE model. Science of the Total Environment, 2019, 682, 494-504.	3.9	17
29	Effects of variable injection rate on reservoir responses and implications for CO <sub>2</sub> storage in saline aquifers. , 2019, 9, 652-671.		13
30	Atomistic Study of Dynamic Contact Angles in CO <sub>2</sub> –Water–Silica System. Langmuir, 2019, 35, 5324-5332.	1.6	17
31	An empirical approach for the quantification of uniaxial compressive stress-strain of partially saturated granular media under high strain rates. Soil Dynamics and Earthquake Engineering, 2019, 120, 245-256.	1.9	6
32	Chemically Induced Flow in Contaminated Unsaturated Soil. Vadose Zone Journal, 2019, 18, 190057.	1.3	0
33	Microcosm experiments and kinetic modeling of glyphosate biodegradation in soils and sediments. Science of the Total Environment, 2019, 658, 105-115.	3.9	39
34	Flood Exposure and Social Vulnerability for Prioritizing Local Adaptation of Urban Storm Water Systems. Lecture Notes in Mechanical Engineering, 2019, , 41-49.	0.3	0
35	Biochemical modeling of microbial memory effects and catabolite repression on soil organic carbon compounds. Soil Biology and Biochemistry, 2019, 128, 1-12.	4.2	11
36	The Thermodynamic Links between Substrate, Enzyme, and Microbial Dynamics in Michaelis–Menten–Monod Kinetics. International Journal of Chemical Kinetics, 2018, 50, 343-356.	1.0	6

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37	Influence of dry density and confinement environment on the high strain rate response of partially saturated sand. International Journal of Impact Engineering, 2018, 116, 65-78.	2.4	16
38	Biomodulation of Nitrogen Cycle in Suspended Sediment. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1230-1246.	1.3	7
39	A smoothed particle hydrodynamics framework for modelling multiphase interactions at meso-scale. Computational Mechanics, 2018, 62, 1071-1085.	2.2	16
40	A urine-fuelled soil-based bioregenerative life support system for long-term and long-distance manned space missions. Life Sciences in Space Research, 2018, 17, 1-14.	1.2	5
41	Analysis of glyphosate degradation in a soil microcosm. Environmental Pollution, 2018, 233, 201-207.	3.7	61
42	Coarse-grained modeling of multiphase interactions at microscale. Journal of Chemical Physics, 2018, 149, 124505.	1.2	4
43	Glyphosate dispersion, degradation, and aquifer contamination in vineyards and wheat fields in the Po Valley, Italy. Water Research, 2018, 146, 37-54.	5.3	24
44	Implications of uncertain bioreactive parameters on a complex reaction network of atrazine biodegradation in soil. Advances in Water Resources, 2018, 121, 263-276.	1.7	15
45	Micro food web networks on suspended sediment. Science of the Total Environment, 2018, 643, 1387-1399.	3.9	3
46	Modelling complex cracks with finite elements: a kinematically enriched constitutive model. International Journal of Fracture, 2017, 203, 21-39.	1.1	19
47	Capturing pressure- and rate-dependent behaviour of rocks using a new damage-plasticity model. International Journal of Impact Engineering, 2017, 110, 208-218.	2.4	24
48	Geochemical modelling of heavy metals in urban stormwater biofilters. Ecological Engineering, 2017, 102, 565-576.	1.6	7
49	Mineral properties, microbes, transport, and plant-input profiles control vertical distribution and age of soil carbon stocks. Soil Biology and Biochemistry, 2017, 107, 244-259.	4.2	64
50	In-situ atrazine biodegradation dynamics in wheat ( Triticum ) crops under variable hydrologic regime. Journal of Contaminant Hydrology, 2017, 203, 104-121.	1.6	12
51	Near Activation and Differential Activation in Enzymatic Reactions. International Journal of Chemical Kinetics, 2017, 49, 305-318.	1.0	2
52	Uniaxial compressive behavior of partially saturated granular media under high strain rates. International Journal of Impact Engineering, 2017, 102, 156-168.	2.4	22
53	Living microorganisms change the information (Shannon) content of a geophysical system. Scientific Reports, 2017, 7, 3320.	1.6	3
54	Impacts of relative permeability hysteresis on the reservoir performance in CO <sub>2</sub> storage in the Ordos Basin. , 2017, 7, 259-272.		7

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55	Optical Measurement of Cell Colonization Patterns on Individual Suspended Sediment Aggregates. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1794-1807.	1.0	10
56	Discrete element simulation of dynamic behaviour of partially saturated sand. International Journal of Mechanics and Materials in Design, 2016, 12, 495-507.	1.7	23
57	Kinetics of atrazine, deisopropylatrazine, and deethylatrazine soil biodecomposers. Journal of Environmental Management, 2016, 183, 673-686.	3.8	27
58	Implicit Analytic Solution of Michaelis–Menten–Monod Kinetics. ACS Omega, 2016, 1, 894-898.	1.6	6
59	Breakdown, uptake and losses of human urine chemical compounds in barley (Hordeum vulgare) and soybean (Glycine max) agricultural plots. Nutrient Cycling in Agroecosystems, 2016, 104, 221-245.	1.1	12
60	Experimental and numerical analysis of reservoir performance for geological CO 2 storage in the Ordos Basin in China. International Journal of Greenhouse Gas Control, 2016, 45, 216-232.	2.3	51
61	A mesocosm experiment of suspended particulate matter dynamics in nutrient- and biomass-affected waters. Water Research, 2016, 89, 76-86.	5.3	33
62	Space-Time Point Pattern Analysis of Flavescence Dorée Epidemic in a Grapevine Field: Disease Progression and Recovery. Frontiers in Plant Science, 2016, 7, 1987.	1.7	34
63	Face/Off., 2015, , .		95
64	Experimental evidence of how the fractal structure controls the hydrodynamic resistance on granular aggregates moving through water. Journal of Hydrology, 2015, 528, 694-702.	2.3	20
65	Reconstructing the fractal dimension of granular aggregates from light intensity spectra. Soft Matter, 2015, 11, 9150-9159.	1.2	6
66	Analysis of the effect of organic matter content on the architecture and sinking of sediment aggregates. Marine Geology, 2015, 363, 102-111.	0.9	38
67	BankSealer: A decision support system for online banking fraud analysis and investigation. Computers and Security, 2015, 53, 175-186.	4.0	60
68	The effect of temperature on the rate, affinity, and 15N fractionation of NO3 â^' during biological denitrification in soils. Biogeochemistry, 2015, 124, 235-253.	1.7	8
69	HelDroid: Dissecting and Detecting Mobile Ransomware. Lecture Notes in Computer Science, 2015, , 382-404.	1.0	140
70	Jackdaw: Towards Automatic Reverse Engineering of Large Datasets of Binaries. Lecture Notes in Computer Science, 2015, , 121-143.	1.0	14
71	Long residence times of rapidly decomposable soil organic matter: application of a multi-phase, multi-component, and vertically resolved model (BAMS1) to soil carbon dynamics. Geoscientific Model Development, 2014, 7, 1335-1355.	1.3	97
72	Stranger danger. , 2014, , .		39

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73	Faces in the Distorting Mirror. , 2014, , .		16
74	Black-box forensic and antiforensic characteristics of solid-state drives. Journal of Computer Virology and Hacking Techniques, 2014, 10, 255-271.	1.6	5
75	Stochastic collision and aggregation analysis of kaolinite in water through experiments and the spheropolygon theory. Water Research, 2014, 53, 180-190.	5.3	16
76	A review of ion and metal pollutants in urban green water infrastructures. Science of the Total Environment, 2014, 470-471, 695-706.	3.9	40
77	ZARATHUSTRA: Extracting Webinject signatures from banking trojans. , 2014, , .		9
78	Phoenix: DGA-Based Botnet Tracking and Intelligence. Lecture Notes in Computer Science, 2014, , 192-211.	1.0	97
79	AndRadar: Fast Discovery of Android Applications in Alternative Markets. Lecture Notes in Computer Science, 2014, , 51-71.	1.0	30
80	Bitlodine: Extracting Intelligence from the Bitcoin Network. Lecture Notes in Computer Science, 2014, , 457-468.	1.0	150
81	Dynamics of acquisition and transmission of "flavescence dorée―phytoplasma in grapevine. Phytopathogenic Mollicutes, 2014, 4, 59.	0.1	4
82	AndroTotal. , 2013, , .		32
83	Assessment of large-scale offshore CO2 geological storage in Western Taiwan Basin. International Journal of Greenhouse Gas Control, 2013, 19, 281-298.	2.3	10
84	The settling velocity of mineral, biomineral, and biological particles and aggregates in water. Journal of Geophysical Research: Oceans, 2013, 118, 2118-2132.	1.0	102
85	Decomposition Pathways and Rates of Human Urine in Soils. Journal of Agricultural and Food Chemistry, 2013, 61, 6175-6186.	2.4	13
86	A Stage-Structured Model of <i>Scaphoideus titanus</i> in Vineyards. Environmental Entomology, 2013, 42, 181-193.	0.7	11
87	A comprehensive black-box methodology for testing the forensic characteristics of solid-state drives. , 2013, , .		13
88	Temperature dependence of capillary dynamics: A multiphase and multicomponent adiabatic approach. Physical Review E, 2013, 88, 053013.	0.8	3
89	Water retention in discrete element method. , 2013, , .		0

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91	Lines of malicious code. , 2012, , .		45
92	Integrated detection of anomalous behavior of computer infrastructures. , 2012, , .		0
93	Optimal description of two-dimensional complex-shaped objects using spheropolygons. Granular Matter, 2012, 14, 651-658.	1.1	16
94	Riparian biogeochemical hot moments induced by stream fluctuations. Water Resources Research, 2012, 48, .	1.7	110
95	Multiphase capillary rise of multicomponent miscible liquids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 119-124.	2.3	9
96	The effect of <sup>15</sup> N to <sup>14</sup> N ratio on nitrification, denitrification and dissimilatory nitrate reduction. Rapid Communications in Mass Spectrometry, 2012, 26, 430-442.	0.7	22
97	Multiphase capillary flows. International Journal of Multiphase Flow, 2012, 42, 62-73.	1.6	33
98	The rise of hydrological science off Earth. Journal of Hydrology, 2012, 416-417, 12-18.	2.3	0
99	Systems Security Research at Politecnico di Milano. , 2011, , .		0
100	A social-engineering-centric data collection initiative to study phishing. , 2011, , .		5
101	BURN., 2011,,.		11
102	A fast eavesdropping attack against touchscreens. , 2011, , .		39
103	Finding Non-trivial Malware Naming Inconsistencies. Lecture Notes in Computer Science, 2011, , 144-159.	1.0	24
104	Space agriculture in micro- and hypo-gravity: A comparative study of soil hydraulics and biogeochemistry in a cropping unit on Earth, Mars, the Moon and the space station. Planetary and Space Science, 2010, 58, 1996-2007.	0.9	35
105	Martian base agriculture: The effect of low gravity on water flow, nutrient cycles, and microbial biomass dynamics. Advances in Space Research, 2010, 46, 1257-1265.	1.2	24
106	Are the Con Artists Back? A Preliminary Analysis of Modern Phone Frauds. , 2010, , .		22
107	Detecting Intrusions through System Call Sequence and Argument Analysis. IEEE Transactions on Dependable and Secure Computing, 2010, 7, 381-395.	3.7	92
108	Mathematical treatment of isotopologue and isotopomer speciation and fractionation in biochemical kinetics. Geochimica Et Cosmochimica Acta, 2010, 74, 1823-1835.	1.6	36

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109	A Recognizer of Rational Trace Languages. , 2010, , .		Ο
110	Effective Multimodel Anomaly Detection Using Cooperative Negotiation. Lecture Notes in Computer Science, 2010, , 180-191.	1.0	3
111	Selecting and Improving System Call Models for Anomaly Detection. Lecture Notes in Computer Science, 2009, , 206-223.	1.0	24
112	Biological flocculation of suspended particles in nutrient-rich aqueous ecosystems. Journal of Hydrology, 2009, 376, 116-125.	2.3	72
113	Reducing false positives in anomaly detectors through fuzzy alert aggregation. Information Fusion, 2009, 10, 300-311.	11.7	38
114	Transient competitive complexation in biological kinetic isotope fractionation explains nonsteady isotopic effects: Theory and application to denitrification in soils. Journal of Geophysical Research, 2009, 114, .	3.3	22
115	Protecting a Moving Target: Addressing Web Application Concept Drift. Lecture Notes in Computer Science, 2009, , 21-40.	1.0	36
116	A mechanistic treatment of the dominant soil nitrogen cycling processes: Model development, testing, and application. Journal of Geophysical Research, 2008, 113, .	3.3	97
117	Stochastic flocculation of cohesive sediment: Analysis of floc mobility within the floc size spectrum. Water Resources Research, 2008, 44, .	1.7	11
118	Seeing the invisible. Operating Systems Review (ACM), 2008, 42, 51-58.	1.5	19
119	Chapter 19 Sensitivity to breakup functions of a population balance equation for cohesive sediments. Proceedings in Marine Science, 2008, 9, 275-286.	0.1	9
120	Effect of variable fractal dimension on the floc size distribution of suspended cohesive sediment. Journal of Hydrology, 2007, 343, 43-55.	2.3	109
121	Variable fractal dimension: A major control for floc structure and flocculation kinematics of suspended cohesive sediment. Journal of Geophysical Research, 2007, 112, .	3.3	67
122	Coupled moisture and microbial dynamics in unsaturated soils. Water Resources Research, 2007, 43, .	1.7	32
123	Image separation and geometric characterisation of mud flocs. Journal of Hydrology, 2006, 326, 325-348.	2.3	18
124	Method for computing the three-dimensional capacity dimension from two-dimensional projections of fractal aggregates. Physical Review E, 2004, 69, 011405.	0.8	36
125	Pesticide mixtures in soil: a global outlook. Environmental Research Letters, 0, , .	2.2	12