

Garey A Fox

List of Publications by Year in descending order

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139
papers

3,025
citations

136950
32
h-index

189892
50
g-index

141
all docs

141
docs citations

141
times ranked

2107
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring streambank erosion due to ground water seepage: correlation to bank pore water pressure, precipitation and stream stage. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1558-1573.	2.5	198
2	The Role of Subsurface Flow in Hillslope and Stream Bank Erosion: A Review. <i>Soil Science Society of America Journal</i> , 2010, 74, 717-733.	2.2	177
3	Evaluation of the bank stability and toe erosion model (BSTEM) for predicting lateral retreat on composite streambanks. <i>Geomorphology</i> , 2012, 145-146, 107-114.	2.6	124
4	Seepage caused tension failures and erosion undercutting of hillslopes. <i>Journal of Hydrology</i> , 2008, 359, 247-259.	5.4	95
5	Subsurface Transport of Phosphorus in Riparian Floodplains: Influence of Preferential Flow Paths. <i>Journal of Environmental Quality</i> , 2009, 38, 473-484.	2.0	89
6	Streambanks: A net source of sediment and phosphorus to streams and rivers. <i>Journal of Environmental Management</i> , 2016, 181, 602-614.	7.8	78
7	Influence of flow concentration on parameter importance and prediction uncertainty of pesticide trapping by vegetative filter strips. <i>Journal of Hydrology</i> , 2010, 384, 164-173.	5.4	76
8	Seepage erosion in layered stream bank material. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1693-1701.	2.5	73
9	Evaluating a process-based model for use in streambank stabilization: insights on the Bank Stability and Toe Erosion Model (BSTEM). <i>Earth Surface Processes and Landforms</i> , 2017, 42, 191-213.	2.5	71
10	Hyporheic and total transient storage in small, sand-bed streams. <i>Hydrological Processes</i> , 2008, 22, 1885-1894.	2.6	70
11	Parameter Importance and Uncertainty in Predicting Runoff Pesticide Reduction with Filter Strips. <i>Journal of Environmental Quality</i> , 2010, 39, 630-641.	2.0	67
12	Unsaturated hyporheic zone flow in stream/aquifer conjunctive systems. <i>Advances in Water Resources</i> , 2003, 26, 989-1000.	3.8	62
13	Sediment detachment and transport processes associated with internal erosion of soil pipes. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 45-63.	2.5	60
14	Modeling streambank erosion and failure along protected and unprotected composite streambanks. <i>Advances in Water Resources</i> , 2015, 81, 114-127.	3.8	59
15	Influence of seepage undercutting on the stability of root-reinforced streambanks. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 1769-1786.	2.5	57
16	Trapping Phosphorus in Runoff with a Phosphorus Removal Structure. <i>Journal of Environmental Quality</i> , 2012, 41, 672-679.	2.0	57
17	Soil Property Analysis using Principal Components Analysis, Soil Line, and Regression Models. <i>Soil Science Society of America Journal</i> , 2005, 69, 1782-1788.	2.2	55
18	A quantitative phosphorus loss assessment tool for agricultural fields. <i>Environmental Modelling and Software</i> , 2010, 25, 1121-1129.	4.5	51

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19	Erosion of Noncohesive Sediment by Ground Water Seepage: Lysimeter Experiments and Stability Modeling. Soil Science Society of America Journal, 2007, 71, 1822-1830.	2.2	48
20	Internal Erosion during Soil Pipeflow: State of the Science for Experimental and Numerical Analysis. Transactions of the ASABE, 2013, 56, 465-478.	1.1	47
21	Estimation of Soil Organic Matter from Red and Near-Infrared Remotely Sensed Data Using a Soil Line Euclidean Distance Technique. Soil Science Society of America Journal, 2002, 66, 1922-1929.	2.2	45
22	Numerical Simulation of Flow Dynamics during Macropore-Subsurface Drain Interactions Using HYDRUS. Vadose Zone Journal, 2008, 7, 909-918.	2.2	45
23	Interrelationship of Macropores and Subsurface Drainage for Conservative Tracer and Pesticide Transport. Journal of Environmental Quality, 2004, 33, 2281-2289.	2.0	44
24	Bank undercutting and tension failure by groundwater seepage: predicting failure mechanisms. Earth Surface Processes and Landforms, 2014, 39, 758-765.	2.5	44
25	Estimating sediment and phosphorus loads from streambanks with and without riparian protection. Agriculture, Ecosystems and Environment, 2014, 189, 70-81.	5.3	44
26	Flow and transport experiments for a streambank seep originating from a preferential flow pathway. Journal of Hydrology, 2011, 403, 360-366.	5.4	42
27	Deriving Parameters of a Fundamental Detachment Model for Cohesive Soils from Flume and Jet Erosion Tests. Transactions of the ASABE, 2013, 56, 489-504.	1.1	40
28	Experimental Investigation of Direct Connectivity between Macropores and Subsurface Drains during Infiltration. Soil Science Society of America Journal, 2007, 71, 1600-1606.	2.2	39
29	An Automated Soil Line Identification Routine for Remotely Sensed Images. Soil Science Society of America Journal, 2004, 68, 1326-1331.	2.2	36
30	Evaluation of a universal flow-through model for predicting and designing phosphorus removal structures. Chemosphere, 2016, 151, 345-355.	8.2	36
31	Analytical Model for Aquifer Response Incorporating Distributed Stream Leakage. Ground Water, 2002, 40, 378-384.	1.3	35
32	Comparison of subsurface and surface runoff phosphorus transport rates in alluvial floodplains. Agriculture, Ecosystems and Environment, 2011, 141, 417-425.	5.3	34
33	Behavior of sandy slopes remediated by EPS-block geofabric under seepage flow. Geotextiles and Geomembranes, 2013, 37, 81-98.	4.6	32
34	Empirical sediment transport function predicting seepage erosion undercutting for cohesive bank failure prediction. Journal of Hydrology, 2009, 377, 155-164.	5.4	31
35	Stage-dependent transient storage of phosphorus in alluvial floodplains. Hydrological Processes, 2011, 25, 3230-3243.	2.6	31
36	Hydrologic connectivity and threshold behavior of hillslopes with fragipans and soil pipe networks. Hydrological Processes, 2017, 31, 2477-2496.	2.6	30

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37	Numerically predicting seepage gradient forces and erosion: Sensitivity to soil hydraulic properties. <i>Journal of Hydrology</i> , 2010, 389, 354-362.	5.4	28
38	Variability of fluvial erodibility parameters for streambanks on a watershed scale. <i>Geomorphology</i> , 2015, 231, 281-291.	2.6	28
39	Controlled laboratory experiments and modeling of vegetative filter strips with shallow water tables. <i>Journal of Hydrology</i> , 2018, 556, 1-9.	5.4	27
40	Comment on “Major Factors Influencing the Efficacy of Vegetated Buffers on Sediment Trapping: A Review and Analysis,” by Xingmei Liu, Xuyang Zhang, and Minghua Zhang in the <i>Journal of Environmental Quality</i> 2008 37:1667-1674. <i>Journal of Environmental Quality</i> , 2009, 38, 1-3.	2.0	26
41	The hydraulic conductivity structure of gravel-dominated vadose zones within alluvial floodplains. <i>Journal of Hydrology</i> , 2014, 513, 229-240.	5.4	26
42	Streambank sediment loading rates at the watershed scale and the benefit of riparian protection. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1327-1336.	2.5	26
43	Revised Framework for Pesticide Aquatic Environmental Exposure Assessment that Accounts for Vegetative Filter Strips. <i>Environmental Science & Technology</i> , 2010, 44, 3839-3845.	10.0	25
44	<i>Escherichia coli</i> Load Reduction from Runoff by Vegetative Filter Strips: A Laboratory-Scale Study. <i>Journal of Environmental Quality</i> , 2011, 40, 980-988.	2.0	24
45	A new method for remediation of sandy slopes susceptible to seepage flow using EPS-block geof foam. <i>Geotextiles and Geomembranes</i> , 2014, 42, 166-180.	4.6	24
46	Detachment characteristics of root-permeated soils from laboratory jet erosion tests. <i>Ecological Engineering</i> , 2017, 100, 335-343.	3.6	24
47	Riparian Vadose Zone Preferential Flow: Review of Concepts, Limitations, and Perspectives. <i>Vadose Zone Journal</i> , 2018, 17, 1-20.	2.2	22
48	Laboratory soil piping and internal erosion experiments: evaluation of a soil piping model for low-compact soils. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1137-1145.	2.5	20
49	Does mechanistic modeling of filter strip pesticide mass balance and degradation processes affect environmental exposure assessments?. <i>Chemosphere</i> , 2015, 139, 410-421.	8.2	20
50	Uncalibrated modelling of conservative tracer and pesticide leaching to groundwater: comparison of potential Tier II exposure assessment models. <i>Pest Management Science</i> , 2006, 62, 537-550.	3.4	19
51	Design and Application of a Direct-Push Vadose Zone Gravel Permeameter. <i>Ground Water</i> , 2011, 49, 920-925.	1.3	19
52	EVALUATION OF A STREAM AQUIFER ANALYSIS TEST USING ANALYTICAL SOLUTIONS AND FIELD DATA. <i>Journal of the American Water Resources Association</i> , 2004, 40, 755-763.	2.4	18
53	Modeling Parent and Metabolite Fate and Transport in Subsurface Drained Fields With Directly Connected Macropores ¹ . <i>Journal of the American Water Resources Association</i> , 2007, 43, 1359-1372.	2.4	18
54	Distinct influence of filter strips on acute and chronic pesticide aquatic environmental exposure assessments across U.S. EPA scenarios. <i>Chemosphere</i> , 2013, 90, 195-202.	8.2	18

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55	<i>In Situ</i> Soil Pipeflow Experiments on Contrasting Streambank Soils. Transactions of the ASABE, 2013, 56, 479-488.	1.1	18
56	Groundwater flux estimation in streams: A thermal equilibrium approach. Journal of Hydrology, 2018, 561, 822-832.	5.4	16
57	A modeling framework for evaluating streambank stabilization practices for reach-scale sediment reduction. Environmental Modelling and Software, 2018, 100, 201-212.	4.5	16
58	<i>Escherichia coli</i> Transport from Surfaceâ€Applied Manure to Subsurface Drains through Artificial Biopores. Journal of Environmental Quality, 2009, 38, 2412-2421.	2.0	15
59	Assessment of EPS block geofoam with internal drainage for sandy slopes subjected to seepage flow. Geosynthetics International, 2014, 21, 364-376.	2.9	15
60	Effect of vegetative filter strip pesticide residue degradation assumptions for environmental exposure assessments. Science of the Total Environment, 2018, 619-620, 977-987.	8.0	15
61	Preferential Flow in Riparian Groundwater: Gateways for Watershed Solute Transport and Implications for Water Quality Management. Water Resources Research, 2020, 56, e2020WR028186.	4.2	14
62	Comparison of empirical and mechanistic equations for vegetative filter strip pesticide mitigation in long-term environmental exposure assessments. Water Research, 2019, 165, 114983.	11.3	13
63	Heterogeneity influences on stream waterâ€groundwater interactions in a gravel-dominated floodplain. Hydrological Sciences Journal, 2016, 61, 741-750.	2.6	12
64	Testing of the Modified Streambank Erosion and Instream Phosphorus Routines for the SWAT Model. Journal of the American Water Resources Association, 2017, 53, 101-114.	2.4	11
65	Application of fibrous streambank protection against groundwater seepage erosion. Journal of Hydrology, 2018, 565, 27-38.	5.4	11
66	Consideration for Unsaturated Flow beneath a Streambed during Alluvial Well Depletion. Journal of Hydrologic Engineering - ASCE, 2007, 12, 139-145.	1.9	10
67	Soil pipe flow tracer experiments: 2. Application of a streamflow transient storage zone model. Hydrological Processes, 2016, 30, 1280-1291.	2.6	10
68	Watershed Variability in Streambank Erodibility and Implications for Erosion Prediction. Water (Switzerland), 2017, 9, 605.	2.7	10
69	Evaluating Factors Affecting the Permeability of Emulsions Used To Stabilize Radioactive Contamination from a Radiological Dispersal Device. Environmental Science & Technology, 2005, 39, 3762-3769.	10.0	9
70	Preferential Flow Path Effects on Subsurface Contaminant Transport in Alluvial Floodplains. , 2009, , .		9
71	Application of Isothermal Calorimetry to Phosphorus Sorption onto Soils in a Flow-through System. Soil Science Society of America Journal, 2014, 78, 147-156.	2.2	9
72	Process-Based Design Strengthens the Analysis of Stream and Floodplain Systems under a Changing Climate. Transactions of the ASABE, 2019, 62, 1735-1742.	1.1	9

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73	Advancing Surface Water Pesticide Exposure Assessments for Ecosystem Protection. Transactions of the ASABE, 2021, 64, 377-387.	1.1	9
74	Comparison of Aquifer Sustainability Under Groundwater Administrations in Oklahoma and Texas ¹ . Journal of the American Water Resources Association, 2011, 47, 424-431.	2.4	8
75	Berm Method for Quantification of Infiltration at the Plot Scale in High Conductivity Soils. Journal of Hydrologic Engineering - ASCE, 2014, 19, 457-461.	1.9	8
76	The Importance of Scientific Publishing: Teaching an Undergraduate How to Swim the Entire Length of the Pool. Journal of Contemporary Water Research and Education, 2017, 160, 1-4.	0.7	8
77	Streambank Erosion: Advances in Monitoring, Modeling and Management. Water (Switzerland), 2018, 10, 1346.	2.7	8
78	Influence of Rainfall Distribution on Simulations of Atrazine, Metolachlor, and Isoxaflutole/Metabolite Transport in Subsurface Drained Fields. Journal of Agricultural and Food Chemistry, 2007, 55, 5399-5407.	5.2	7
79	Validation of a Quantitative Phosphorus Loss Assessment Tool. Journal of Environmental Quality, 2014, 43, 224-234.	2.0	7
80	Current state of climate education in natural and social sciences in the USA. Climatic Change, 2017, 141, 613-626.	3.6	7
81	Impact of Macropores and Gravel Outcrops on Phosphorus Leaching at the Plot Scale in Silt Loam Soils. Transactions of the ASABE, 2017, 60, 823-835.	1.1	7
82	Fiber Reinforced Sandy Slopes under Groundwater Return Flow. Journal of Irrigation and Drainage Engineering - ASCE, 2018, 144, 04018004.	1.0	7
83	Hydrologic cost-effectiveness ratio favors switchgrass production on marginal croplands over existing grasslands. PLoS ONE, 2017, 12, e0181924.	2.5	7
84	MODELING THE BIG BLACK RIVER: A COMPARISON OF WATER QUALITY MODELS. Journal of the American Water Resources Association, 2006, 42, 617-627.	2.4	6
85	Modeling Streambank Erosion on Composite Streambanks on a Watershed Scale. Transactions of the ASABE, 2017, 60, 753-767.	1.1	6
86	Capture of Airborne Particulate Using Surface Applied Emulsions: Potential for Postdetonation Dirty Bomb Cleanup. Journal of Environmental Engineering, ASCE, 2007, 133, 255-262.	1.4	5
87	Erodibility Parameters Derived from Jet and Flume Erosion Tests on Root-Permeated Soils. Journal of Contemporary Water Research and Education, 2017, 160, 119-131.	0.7	5
88	Modeling Internal Erosion Processes in Soil Pipes: Capturing Geometry Dynamics. Vadose Zone Journal, 2019, 18, 1-13.	2.2	5
89	Laboratory Experiments on the Removal of Soil Plugs During Soil Piping and Internal Erosion. Transactions of the ASABE, 2019, 62, 83-93.	1.1	5
90	Surface Runoff Transport of Escherichia coli after Poultry Litter Application on Pastureland. , 2010, , .		4

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91	Behavior of Fiber-Reinforced Sandy Slopes under Seepage. , 2016, , .		4
92	A tool for drought planning in Oklahoma: Estimating and using drought-influenced flow exceedance curves. Journal of Hydrology: Regional Studies, 2017, 10, 35-46.	2.4	4
93	Performance of preferential flow models in predicting infiltration through a remolded soil with artificial macropores. Vadose Zone Journal, 2020, 19, e20055.	2.2	4
94	Detecting Macropore Fingering Using Temporal Electrical Resistivity Imaging. Applied Engineering in Agriculture, 2021, 37, 861-870.	0.7	4
95	Geophysical Mapping of Preferential Flow Paths across Multiple Floodplains. , 2010, , .		3
96	Field Evidence of a Natural Capillary Barrier in a Gravel Alluvial Aquifer. Vadose Zone Journal, 2019, 18, 1-12.	2.2	3
97	Internal erosion of soil pipes: Sediment rating curves for soil pipes. Earth Surface Processes and Landforms, 2020, 45, 3902-3916.	2.5	3
98	Soil Moisture Impacts Linear and Nonlinear Erodibility Parameters from Jet Erosion Tests. Transactions of the ASABE, 2020, 63, 1123-1131.	1.1	3
99	Erosion of Noncohesive Sediment by Groundwater Seepage: Lysimeter Experiments and Modeling. , 2007, , .		2
100	Berm Method for Quantification of Infiltration and Leaching at the Plot Scale in High Conductivity Soils. , 2012, , .		2
101	Special Section on Interconnection of Atmospheric Water, Surface Water, and Groundwater. Journal of Hydrologic Engineering - ASCE, 2013, 18, 1191-1192.	1.9	2
102	Undergraduate Perceptions of Climate Education Exposure in Natural Resources Management. Transactions of the ASABE, 2019, 62, 831-839.	1.1	2
103	A Case Study on the Relevance of the Journal Impact Factor. Transactions of the ASABE, 2020, 63, 243-249.	1.1	2
104	High-Resolution Pore-Scale Water Content Measurement in a Translucent Soil Profile from Light Transmission. Transactions of the ASABE, 2021, 64, 949-962.	1.1	2
105	Hyporheic and Total Storage Exchange in Small Sand-Bed Streams. , 2005, , 1.		1
106	Experimental Investigation of Direct Connectivity between Macropores and Subsurface Drains during Infiltration. , 2006, , 1.		1
107	Measuring the Erodibility of Cohesive Soils Influenced by Seepage Forces Using a Laboratory Jet Erosion Test Device. , 2011, , .		1
108	Quantification and Heterogeneity of Infiltration and Transport in Alluvial Floodplains. , 2012, , .		1

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109	Flume Experiments to Determine the Erodibility of Gravel Streambank Soils. , 2013, , .		1
110	Finite element modeling of phosphorus leaching through floodplain soils dominated by preferential flow pathways. , 2013, , .		1
111	Evaluation of the Conservational Channel Evolution and Pollutant Transport System (CONCEPTS) Applied to Composite Streambanks in the Ozark Highlands Ecoregion. , 2013, , .		1
112	Impact of Measurement Scale on Infiltration and Phosphorus Leaching in Ozark Floodplains. , 2013, , .		1
113	Comment on “Modeling slope rainfall-infiltration-runoff process with shallow water table during complex rainfall patterns” by Wu et al. (2021). Journal of Hydrology X, 2021, 13, 100113.	1.6	1
114	Unsaturated Hyporheic Zone Flow in Analytical Models for Stream/Aquifer Interaction. , 2002, , .		0
115	MODELING THE BIG BLACK RIVER: EVALUATION OF A SIMPLISTIC WATER QUALITY MODEL. , 0, , .		0
116	Modeling Streambank Instability by Seepage Undercutting. , 2007, , .		0
117	An Improved Express Fraction for Modeling Macropore/Subsurface Drain Interconnectivity. , 2007, , .		0
118	Estimating Watershed Level Nonagricultural Pesticide Use From Golf Courses Using Geospatial Methods1. Journal of the American Water Resources Association, 2008, 44, 1363-1372.	2.4	0
119	Slope Failure Mechanisms due to Seepage: Three-Dimensional Soil Block Experiments. , 2008, , .		0
120	Using MODFLOW to Compare Management Alternatives for a River Alluvial Aquifer. , 2008, , .		0
121	The Role of Drainage System and Macropore Interconnectivity in Soil Pathogen Transport. , 2008, , .		0
122	Laboratory Experiments on Three-Dimensional Seepage Erosion Undercutting of Vegetated Banks. , 2008, , .		0
123	Subsurface Transport of Phosphorus in Riparian Floodplains: Tracer and Phosphorus Transport Experiments. , 2008, , .		0
124	Sorption of E. coli from liquid swine manure in natural and artificial soils. , 2009, , .		0
125	Incorporating Seepage Processes into a Streambank Stability Model. , 2009, , .		0
126	Option-Specific Program Outcomes to Meet Biological Engineering Program Criteria. , 2010, , .		0

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127	Impact of Preferential Flow Paths on Alluvial Groundwater Flow Patterns and Phosphorus Transport. , 2010, , .		0
128	Groundwater Seepage Mechanisms of Streambank Erosion and Failure. , 2011, , .		0
129	Streambank Erosion and Instability Induced by Groundwater Seepage. , 2011, , .		0
130	Development a Fluvial Detachment Rate Model to Predict the Erodibility of Cohesive Soils under the Influence of Seepage. , 2012, , .		0
131	Controlled Laboratory Experiments Investigating the Influence of Shallow Groundwater Tables on Runoff through Vegetative Filter Strips. , 2012, , .		0
132	Streambank Piping and Internal Erosion as Failure Mechanisms of Streambanks. , 2012, , .		0
133	Application of Excess Shear Stress and Mechanistic Detachment Rate Models for the Erodibility of Cohesive Soils. , 2013, , .		0
134	Modified Excess Shear Stress Model Parameters based on Mechanistic Predictions from a Detachment Rate Model. , 2013, , .		0
135	Sediment and Phosphorus Loading from Protected and Unprotected Streambanks in Eastern Oklahoma. , 2013, , .		0
136	Application of isothermal calorimetry to the study of phosphorus sorption onto soils in a flow-through system. , 2013, , .		0
137	<i>A Modeling Framework for Evaluating Streambank Stabilization Practices for Reach-Scale Sediment Reduction</i>. , 2017, , .		0
138	Geomorphic identification of physical habitat features in a large, altered river system. E3S Web of Conferences, 2018, 40, 02031.	0.5	0
139	Navigating the Publication Process: An ASABE Journalsâ€™ Perspective. Transactions of the ASABE, 2019, 62, 1147-1153.	1.1	0