

J Todd Petty

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,414
citations

257357

24
h-index

330025

37
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43
all docs

43
docs citations

43
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Restricted movement by mottled sculpin (pisces: cottidae) in a southern Appalachian stream. <i>Freshwater Biology</i> , 2004, 49, 631-645.	1.2	125
2	Brook Trout Movement in Response to Temperature, Flow, and Thermal Refugia within a Complex Appalachian Riverscape. <i>Transactions of the American Fisheries Society</i> , 2012, 141, 1060-1073.	0.6	100
3	Spatial and Seasonal Dynamics of Brook Trout Populations Inhabiting a Central Appalachian Watershed. <i>Transactions of the American Fisheries Society</i> , 2005, 134, 572-587.	0.6	91
4	Culvert Replacement and Stream Habitat Restoration: Implications from Brook Trout Management in an Appalachian Watershed, U.S.A.. <i>Restoration Ecology</i> , 2009, 17, 404-413.	1.4	85
5	Response of Fish and Macroinvertebrate Bioassessment Indices to Water Chemistry in a Mined Appalachian Watershed. <i>Environmental Management</i> , 2007, 39, 707-720.	1.2	77
6	Patch selection by mottled sculpin (Pisces: Cottidae) in a southern Appalachian stream. <i>Freshwater Biology</i> , 1996, 35, 261-276.	1.2	75
7	Multi-scale effects of resource patchiness on foraging behaviour and habitat use by longnose dace, <i>Rhinichthys cataractae</i> . <i>Freshwater Biology</i> , 2001, 46, 145-160.	1.2	63
8	POPULATION DYNAMICS OF MOTTLED SCULPIN (PISCES) IN A VARIABLE ENVIRONMENT: INFORMATION THEORETIC APPROACHES. <i>Ecological Monographs</i> , 2006, 76, 217-234.	2.4	63
9	Landscape indicators and thresholds of stream ecological impairment in an intensively mined Appalachian watershed. <i>Journal of the North American Benthological Society</i> , 2010, 29, 1292-1309.	3.0	60
10	Additive effects of mining and residential development on stream conditions in a central Appalachian watershed. <i>Journal of the North American Benthological Society</i> , 2011, 30, 399-418.	3.0	57
11	Size-Dependent Territoriality of Mottled Sculpin in a Southern Appalachian Stream. <i>Transactions of the American Fisheries Society</i> , 2007, 136, 1750-1761.	0.6	41
12	Electrofishing Capture Efficiencies for Common Stream Fish Species to Support Watershed-Scale Studies in the Central Appalachians. <i>North American Journal of Fisheries Management</i> , 2010, 30, 1041-1050.	0.5	41
13	Density-Dependent Regulation of Brook Trout Population Dynamics along a Core-Periphery Distribution Gradient in a Central Appalachian Watershed. <i>PLoS ONE</i> , 2014, 9, e91673.	1.1	39
14	Giving-up densities and ideal pre-emptive patch use in a predatory benthic stream fish. <i>Freshwater Biology</i> , 2010, 55, 780-793.	1.2	35
15	Watershed analysis with GIS: The watershed characterization and modeling system software application. <i>Computers and Geosciences</i> , 2010, 36, 970-976.	2.0	32
16	Hierarchical classification of stream condition: a house-neighborhood framework for establishing conservation priorities in complex riverscapes. <i>Freshwater Science</i> , 2013, 32, 874-891.	0.9	32
17	The temperature-productivity squeeze: constraints on brook trout growth along an Appalachian river continuum. <i>Hydrobiologia</i> , 2014, 727, 151-166.	1.0	32
18	Dynamics and regulation of the southern brook trout (<i>Salvelinus fontinalis</i>) population in an Appalachian stream. <i>Freshwater Biology</i> , 2010, 55, 1494-1508.	1.2	30

#	ARTICLE	IF	CITATIONS
19	An Ecologically Based Approach to Identifying Restoration Priorities in an Acid-Impacted Watershed. <i>Restoration Ecology</i> , 2005, 13, 348-357.	1.4	28
20	Scenario analysis predicts context-dependent stream response to landuse change in a heavily mined central Appalachian watershed. <i>Freshwater Science</i> , 2013, 32, 1246-1259.	0.9	28
21	River mainstem thermal regimes influence population structuring within an appalachian brook trout population. <i>Conservation Genetics</i> , 2015, 16, 15-29.	0.8	28
22	Can brook trout survive climate change in large rivers? If it rains. <i>Science of the Total Environment</i> , 2017, 607-608, 1225-1236.	3.9	28
23	Interactive effects of multiple stressors and restoration priorities in a mined Appalachian watershed. <i>Hydrobiologia</i> , 2007, 575, 13-31.	1.0	27
24	Effects of Road Crossings on Stream and Streamside Salamanders. <i>Journal of Wildlife Management</i> , 2008, 72, 760-771.	0.7	27
25	Local Stream Temperature and Drainage Network Topology Interact to Influence the Distribution of Smallmouth Bass and Brook Trout in a Central Appalachian Watershed. <i>Journal of Freshwater Ecology</i> , 2009, 24, 497-508.	0.5	23
26	Ecological function of constructed perennial stream channels on reclaimed surface coal mines. <i>Hydrobiologia</i> , 2013, 720, 39-53.	1.0	19
27	Continuous response of benthic macroinvertebrate assemblages to a discrete disturbance gradient: consequences for diagnosing stressors. <i>Journal of the North American Benthological Society</i> , 2010, 29, 1241-1257.	3.0	18
28	More than a corridor: use of a main stem stream as supplemental foraging habitat by a brook trout metapopulation. <i>Oecologia</i> , 2016, 182, 463-473.	0.9	17
29	Landscape-based cumulative effects models for predicting stream response to mountaintop mining in multistressor Appalachian watersheds. <i>Freshwater Science</i> , 2015, 34, 1006-1019.	0.9	16
30	Genetic Assignment of Brook Trout Reveals Rapid Success of Culvert Restoration in Headwater Streams. <i>North American Journal of Fisheries Management</i> , 2018, 38, 991-1003.	0.5	15
31	Modeling Critical Forest Habitat in the Southern Coal Fields of West Virginia. <i>International Journal of Ecology</i> , 2012, 2012, 1-10.	0.3	11
32	Complex contaminant mixtures in multistressor Appalachian riverscapes. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 2603-2610.	2.2	11
33	Conservation planning at the intersection of landscape and climate change: brook trout in the Chesapeake Bay watershed. <i>Ecosphere</i> , 2019, 10, e02585.	1.0	10
34	Non-native trout limit native brook trout access to space and thermal refugia in a restored large river system. <i>Restoration Ecology</i> , 2019, 27, 892-900.	1.4	7
35	Flow-Mediated Vulnerability of Source Waters to Elevated TDS in an Appalachian River Basin. <i>Water (Switzerland)</i> , 2020, 12, 384.	1.2	6
36	Culvert Effects on Stream and Stream-Side Salamander Habitats. <i>International Journal of Environmental Science and Development</i> , 2014, 5, 274-281.	0.2	6

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37	Harvest rates and cause-specific mortality of American black bears in the wildland-urban interface of the Mid-Atlantic region, USA. <i>Ursus</i> , 2017, 28, 195-207.	0.3	4
38	Microbial communities reveal impacts of unconventional oil and gas development on headwater streams. <i>Water Research</i> , 2022, 212, 118073.	5.3	3
39	Non-native species limit stream restoration benefits for brook trout. <i>Restoration Ecology</i> , 0, , .	1.4	2
40	Natural and anthropogenic controls over suspended sediments within a mountainous Appalachian watershed: implications for watershed restoration. <i>International Journal of Forest Engineering</i> , 2015, 26, 24-35.	0.4	1
41	Limestone Remediation of an Acidic Stream Creates a Microchemical Batch Mark for Brook Trout within an Appalachian Watershed. <i>North American Journal of Fisheries Management</i> , 2020, 40, 1523-1531.	0.5	1
42	Monitoring Stream and Watershed Restoration - Edited by Philip Roni. <i>Restoration Ecology</i> , 2006, 14, 481-482.	1.4	0
43	Watershed Planning within a Quantitative Scenario Analysis Framework. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	0