

# Chris R Rehmann

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,132  
citations

361045

20  
h-index

414034

32  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1093  
citing authors

#	ARTICLE	IF	CITATIONS
1	Socioeconomic and Housing Vulnerability's Role in Decision Time for Reconstruction in Puerto Rico after Hurricane Maria. , 2022, , .		0
2	Predicting the spatiotemporal exposure of aquatic species to intrusions of fire retardant in streams with limited data. Science of the Total Environment, 2021, 782, 146879.	3.9	3
3	Slope stability of streambanks at saturated riparian buffer sites. Journal of Environmental Quality, 2021, 50, 1430-1439.	1.0	3
4	Sectional model of a prairie buffer strip in a laboratory flume for water quality research. , 2021, 4, e20133.		1
5	Wind energy assessment for NEOM city, Saudi Arabia. Energy Science and Engineering, 2020, 8, 755-767.	1.9	23
6	Improving the effectiveness of saturated riparian buffers for removing nitrate from subsurface drainage. Journal of Environmental Quality, 2020, 49, 1624-1632.	1.0	7
7	Differential Diffusion. , 2019, , 497-505.		0
8	Dynamics of bed bug infestations and control under disclosure policies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6473-6481.	3.3	8
9	Stream depletion rate for a radial collector well in an unconfined aquifer near a fully penetrating river. Journal of Hydrology, 2017, 547, 732-741.	2.3	10
10	An agent-based platform for the study of watersheds as coupled natural and human systems. Environmental Modelling and Software, 2017, 89, 40-60.	1.9	30
11	Life cycle assessment of heated apron pavement system operations. Transportation Research, Part D: Transport and Environment, 2016, 48, 316-331.	3.2	14
12	Predicting Streambed Sediment and Water Column Escherichia coli Levels at Watershed Scale. Journal of the American Water Resources Association, 2016, 52, 184-197.	1.0	21
13	Importance of Vertical Variations of Velocity for Shear Dispersion in Rivers. Journal of Hydraulic Engineering, 2015, 141, .	0.7	6
14	Explicit Estimates of Arrival Times for Dispersion in Rivers. Journal of Hydraulic Engineering, 2015, 141, .	0.7	4
15	Experiments on Differential Scalar Mixing in Turbulence in a Sheared, Stratified Flow. Journal of Physical Oceanography, 2014, 44, 2661-2680.	0.7	20
16	Rapid distortion theory for mixing efficiency of a flow stratified by one or two scalars. Dynamics of Atmospheres and Oceans, 2014, 65, 107-123.	0.7	2
17	Analytical Solution of a Model of Contaminant Transport in the Advective Zone of a River. Journal of Hydraulic Engineering, 2014, 140, .	0.7	11
18	Internal wave-driven transport of fluid away from the boundary of a lake. Limnology and Oceanography, 2013, 58, 429-442.	1.6	10

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19	A model for predicting resuspension of Escherichia coli from streambed sediments. Water Research, 2012, 46, 115-126.	5.3	54
20	Transport by an intrusion generated by boundary mixing in a lake. Water Resources Research, 2010, 46, .	1.7	26
21	Mixing efficiency in decaying stably stratified turbulence. Dynamics of Atmospheres and Oceans, 2010, 49, 25-36.	0.7	36
22	Importance of interactions between the water column and the sediment for microbial concentrations in streams. Water Research, 2009, 43, 4579-4589.	5.3	88
23	Theory for differential transport of scalars in sheared stratified turbulence. Journal of Fluid Mechanics, 2009, 621, 1-21.	1.4	8
24	Measuring the Dispersion Coefficient with Acoustic Doppler Current Profilers. Journal of Hydraulic Engineering, 2007, 133, 977-982.	0.7	43
25	Evaluation of Mean Velocity and Turbulence Measurements with ADCPs. Journal of Hydraulic Engineering, 2007, 133, 1310-1318.	0.7	72
26	Modeling and scaling of aeration bubble plumes: A two-phase flow analysis. Journal of Hydraulic Research/De Recherches Hydrauliques, 2007, 45, 617-630.	0.7	62
27	Layering in a Flow with Diffusively Stable Temperature and Salinity Stratification. Journal of Physical Oceanography, 2006, 36, 1457-1470.	0.7	17
28	Buoyancy generated turbulence in stably stratified flow with shear. Physics of Fluids, 2006, 18, 045104.	1.6	7
29	Small-Scale Structure of Strongly Stratified Turbulence. Journal of Physical Oceanography, 2005, 35, 151-164.	0.7	15
30	Evaluation of Oceanographic Microstructure Methods for Hydraulics Problems. , 2005, , 1.		1
31	The impact of a benthic filter feeder: limitations imposed by physical transport of algae to the benthos. Canadian Journal of Fisheries and Aquatic Sciences, 2005, 62, 205-214.	0.7	36
32	Eddy diffusivity near bubble plumes. Water Resources Research, 2005, 41, .	1.7	11
33	Rapid distortion theory for differential diffusion. Geophysical Research Letters, 2005, 32, .	1.5	7
34	Estimates of the Dissipation of Turbulent Kinetic Energy from Temperature Microstructure. , 2004, , 1.		2
35	Dissipation of Turbulent Kinetic Energy near a Bubble Plume. Journal of Hydraulic Engineering, 2004, 130, 441-449.	0.7	29
36	Retention and supply of zebra mussel larvae in a large river system: importance of an upstream lake. Freshwater Biology, 2004, 49, 919-930.	1.2	37

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37	Measurements and consequences of retention in a side embayment in a tidal river. <i>Journal of Marine Systems</i> , 2004, 49, 41-53.	0.9	8
38	Laboratory culture of <i>Dreissena polymorpha</i> larvae: spawning success, adult fecundity, and larval mortality patterns. <i>Canadian Journal of Zoology</i> , 2004, 82, 1436-1443.	0.4	35
39	Mean potential energy change in stratified grid turbulence. <i>Dynamics of Atmospheres and Oceans</i> , 2004, 37, 271-294.	0.7	60
40	Scaling for the mixing efficiency of stratified grid turbulence. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2004, 42, 35-42.	0.7	5
41	A developmental bottleneck in dispersing larvae: implications for spatial population dynamics. <i>Ecology Letters</i> , 2003, 6, 352-360.	3.0	50
42	Effect of turbulence on the mortality of zebra mussel veligers. <i>Canadian Journal of Zoology</i> , 2003, 81, 1063-1069.	0.4	37
43	Laboratory Measurements of Differential Diffusion in a Diffusively Stable, Turbulent Flow. <i>Journal of Physical Oceanography</i> , 2003, 33, 1592-1603.	0.7	45
44	Kinematic Effects of Differential Transport on Mixing Efficiency in a Diffusively Stable, Turbulent Flow. <i>Journal of Physical Oceanography</i> , 2003, 33, 299-304.	0.7	13
45	Particle Image Velocimetry Errors due to Refractive Index Fluctuations. , 2002, , 1.		2
46	Systematic microstructure variability in double-diffusively stable coastal waters of nonuniform density gradient. <i>Journal of Geophysical Research</i> , 2002, 107, 8-1.	3.3	12
47	Diapycnal Diffusivity Inferred from Scalar Microstructure Measurements near the New England Shelf/Slope Front*. <i>Journal of Physical Oceanography</i> , 2000, 30, 1354-1371.	0.7	29
48	Scaling and parameterization of stratified homogeneous turbulent shear flow. <i>Journal of Fluid Mechanics</i> , 2000, 412, 1-20.	1.4	111