

# Evan A Variano

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,077  
citations

430874

18  
h-index

414414

32  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1362  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical solution for the Kelvin-Helmholtz instability under a submerged canopy-oscillatory flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2022, 60, 220-228.	1.7	2
2	Spinning and tumbling of long fibers in isotropic turbulence. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	12
3	Droplet and particle methods to investigate turbulent particle laden jets. <i>Aerosol Science and Technology</i> , 2021, 55, 1359-1377.	3.1	3
4	Measurements of trajectories and spatial distributions of diatoms ( <i>Coscinodiscus</i> spp.) at dissipation scales of turbulence. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	6
5	A new particle for measuring mass transfer in turbulence. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	4
6	ECOSTRESS and CIMIS: A Comparison of Potential and Reference Evapotranspiration in Riverside County, California. <i>Remote Sensing</i> , 2020, 12, 4126.	4.0	7
7	Turbulence statistics in a negatively buoyant multiphase plume. <i>Journal of Fluid Mechanics</i> , 2020, 896, .	3.4	9
8	Lagrangian Time Scale of Passive Rotation for Mesoscale Particles in Turbulence. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	8
9	Mapping spheroid rotation modes in turbulent channel flow: effects of shear, turbulence and particle inertia. <i>Journal of Fluid Mechanics</i> , 2019, 876, 19-54.	3.4	22
10	Slip velocity of large low-aspect-ratio cylinders in homogeneous isotropic turbulence. <i>International Journal of Multiphase Flow</i> , 2019, 121, 103120.	3.4	8
11	Seasonal, Spring-Neap, and Tidal Variation in Cohesive Sediment Transport Parameters in Estuarine Shallows. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7265-7284.	2.6	8
12	Development and performance of a 1D-2D coupled shallow water model for large river and lake networks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 852-865.	1.7	9
13	Scale-dependent alignment, tumbling and stretching of slender rods in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 860, 465-486.	3.4	15
14	Turbulence in the presence of internal waves in the bottom boundary layer of the California inner shelf. <i>Ocean Dynamics</i> , 2018, 68, 627-644.	2.2	4
15	Rotations of large inertial cubes, cuboids, cones, and cylinders in turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	14
16	Rotational kinematics of large cylindrical particles in turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 815, 199-222.	3.4	25
17	Rotations of small, inertialess triaxial ellipsoids in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 821, 517-538.	3.4	12
18	Collision of oil droplets with marine aggregates: Effect of droplet size. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3250-3260.	2.6	13

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19	The contribution of an overlooked transport process to a wetland's methane emissions. <i>Geophysical Research Letters</i> , 2016, 43, 6276-6284.	4.0	46
20	Wind-driven water motions in wetlands with emergent vegetation. <i>Water Resources Research</i> , 2016, 52, 2571-2581.	4.2	7
21	Rotation of Nonspherical Particles in Turbulent Channel Flow. <i>Physical Review Letters</i> , 2015, 115, 244501.	7.8	83
22	Modeling comprehensive chemical composition of weathered oil following a marine spill to predict ozone and potential secondary aerosol formation and constrain transport pathways. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7300-7315.	2.6	22
23	On the Anisotropic Vorticity in Turbulent Channel Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	21
24	Zooplankton in flowing water near benthic communities encounter rapidly fluctuating velocity gradients and accelerations. <i>Marine Biology</i> , 2015, 162, 1939-1954.	1.5	16
25	Into turbulent air: size-dependent effects of von Kármán vortex streets on hummingbird flight kinematics and energetics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140180.	2.6	49
26	Corrections for one- and two-point statistics measured with coarse-resolution particle image velocimetry. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	9
27	Homogeneity and isotropy in a laboratory turbulent flow. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	43
28	Refractive-index-matched hydrogel materials for measuring flow-structure interactions. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	63
29	Turbulence modulation by large ellipsoidal particles: concentration effects. <i>Acta Mechanica</i> , 2013, 224, 2291-2299.	2.1	9
30	Turbulent transport of a high-Schmidt-number scalar near an air-water interface. <i>Journal of Fluid Mechanics</i> , 2013, 731, 259-287.	3.4	22
31	Evaluation of permeability and non-Darcy flow in vuggy macroporous limestone aquifer samples with lattice Boltzmann methods. <i>Water Resources Research</i> , 2013, 49, 216-230.	4.2	69
32	Lagrangian measurement of fluid and particle motion using a field-deployable Volumetric Particle Imager (VoPI). <i>Limnology and Oceanography: Methods</i> , 2013, 11, 225-238.	2.0	4
33	Gas exchange in wetlands with emergent vegetation: The effects of wind and thermal convection at the air-water interface. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1297-1306.	3.0	29
34	Rotational diffusion of particles in turbulence. <i>Limnology &amp; Oceanography Fluids &amp; Environments</i> , 2013, 3, 89-102.	1.7	15
35	Shape effects on turbulent modulation by large nearly neutrally buoyant particles. <i>Journal of Fluid Mechanics</i> , 2012, 712, 41-60.	3.4	86
36	An in situ borescopic quantitative imaging profiler for the measurement of high concentration sediment velocity. <i>Experiments in Fluids</i> , 2010, 49, 77-88.	2.4	20

#	ARTICLE	IF	CITATIONS
37	Tracer studies of sheet flow in the Florida Everglades. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	14
38	Flow and mixing dynamics in a patterned wetland: Kilometer-scale tracer releases in the Everglades. <i>Water Resources Research</i> , 2009, 45, .	4.2	21
39	A random-jet-stirred turbulence tank. <i>Journal of Fluid Mechanics</i> , 2008, 604, 1-32.	3.4	93
40	Quantitative Imaging of CO <sub>2</sub> Transfer at an Unsheared Free Surface. <i>Environmental Science and Engineering</i> , 2007, , 43-57.	0.2	8
41	Networks, Dynamics, and Modularity. <i>Physical Review Letters</i> , 2004, 92, 188701.	7.8	103
42	A random synthetic jet array driven turbulence tank. <i>Experiments in Fluids</i> , 2004, 37, 613-615.	2.4	44