



Jeffrey R. Koseff

William Alden Campbell and Martha Campbell Professor in the School of Engineering and Professor of Oceans, Emeritus

Civil and Environmental Engineering

 Curriculum Vitae available Online  Resume available Online

Bio

BIO

Jeff Koseff, founding co-director of the Stanford Woods Institute for the Environment, is an expert in the interdisciplinary domain of environmental fluid mechanics. His research falls in the interdisciplinary domain of environmental fluid mechanics and focuses on the interaction between physical and biological systems in natural aquatic environments. Current research activities are in the general area of environmental fluid mechanics and focus on: turbulence and internal wave dynamics in stratified flows, coral reef and sea-grass hydrodynamics, the role of natural systems in coastal protection, and flow through terrestrial and marine canopies. Most recently he has begun to focus on the interaction between gravity currents and breaking internal waves in the near-coastal environment, and the transport of marine microplastics. Koseff was formerly the Chair of Civil and Environmental Engineering, and the Senior Associate Dean of Engineering at Stanford, and has served on the Board of Governors of The Israel Institute of Technology, and has been a member of the Visiting Committees of the Civil and Environmental Engineering department at Carnegie-Mellon University, The Iowa Institute of Hydraulic Research, and Cornell University. He has also been a member of review committees for the College of Engineering at the University of Michigan, The WHOI-MIT Joint Program, and the University of Minnesota Institute on the Environment. He is a former member of the Independent Science Board of the Bay/Delta Authority. He was elected a Fellow of the American Physical Society in 2015, and received the Richard Lyman Award from Stanford University in the same year. In 2020 he was elected as a Fellow of the California Academy of Sciences. Koseff also served as the Faculty Athletics Representative to the Pac-12 and NCAA for Stanford until July 2024.

ACADEMIC APPOINTMENTS

- Emeritus (Active) Professor, Civil and Environmental Engineering
- Emeritus (Active) Professor, Oceans
- Member, Bio-X
- Affiliate, Precourt Institute for Energy
- Founding Perry L. McCarty Director, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Director of Environmental Fluid Mechanics Laboratory, Stanford University, (1991-1996)
- Chair of Department of Civil and Environmental Engineering, Stanford University, (1995-1999)
- Senior Associate Dean for Faculty Affairs in the School of Engineering, Stanford University, (1999-2003)
- Founding Co-Director, Stanford Woods Institute for the Environment, (2003-2016)
- Faculty Athletic Representative to the NCAA, Stanford University, (2017-2024)
- Faculty Director, Change Leadership for Sustainability Program, Stanford Doerr School of Sustainability, (2022-2024)

HONORS AND AWARDS

- Fellow, California Academy of Sciences (2020)
- School of Engineering Tau Beta Pi Award for Excellence in Undergraduate Teaching, Stanford University (2019)
- Borland Lecturer in Hydraulics, Colorado State University (2018)
- Sustainable Stanford Award Winner, Stanford University (2017)
- Fellow, American Physical Society (2015)
- Richard W. Lyman Award, Stanford University (2015)
- Eugene L. Grant Award for Excellence in Undergraduate Teaching, Stanford University (2011)
- Teacher of the Year; Honorable Mention, Associated Students of Stanford University (2007)
- Bing Teaching Fellowship, Stanford University (1995-1998)
- Eugene L. Grant Award for Excellence in Undergraduate Teaching, Stanford University (1995)
- University Fellow, Stanford University (1994-1996)
- Lillian and Thomas B. Rhodes Award for Excellence in Undergraduate Teaching, Stanford University (1993)
- Outstanding Teaching Award, ASSU (1991-92)
- Gledden Visiting Senior Fellow, University of Western Australia (1991, 2003)
- Leavell Family Faculty Scholar, Stanford University School of Engineering (1989-92)
- Tau Beta Pi Award for Excellence in Undergraduate Teaching, Stanford University School of Engineering (1989)
- Award for Outstanding Service, American Society of Civil Engineers (1986-87)
- Robert T. Knapp Award, Fluids Engineering Division of the American Society of Mechanical Engineers (1985)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member of Research Advisory Board, Resilient by Design (2017 - 2019)
- Member of the Board of Trustees, California Academy of Sciences (2018 - present)
- Member of Advisory Board, University of Delaware Institute of the Environment (2024 - present)

PROFESSIONAL EDUCATION

- PhD, Stanford University (1983)
- M.S., Stanford University (1978)
- B.Sc., University of the Witwatersrand (1976)

LINKS

- Stanford Woods Institute for the Environment: <https://woods.stanford.edu/>
- The Bob and Norma Street Environmental Fluid Mechanics Laboratory: <https://cee.stanford.edu/research-impact/labs-centers/bob-and-norma-street-environmental-fluid-mechanics-laboratory-efml>
- Research Lab Website: <https://web.stanford.edu/~koseff>

Teaching

COURSES

2024-25

- Introduction to PHD Studies in Civil and Environmental Engineering: CEE 379 (Aut)

2023-24

- Environmental Engineering Seminar: CEE 269B (Win)
- Get to Know Your Oceans: OCEANS 300A (Aut)
- Introduction to Mechanics of Fluids: CEE 101E (Sum)
- Rivers, Streams, and Canals: CEE 162E, CEE 262E (Spr)

2022-23

- Introduction to Mechanics of Fluids: CEE 101E (Sum)
- Mechanics of Fluids: CEE 101B (Aut)

2021-22

- Introduction to Mechanics of Fluids: CEE 101E (Sum)
- Rivers, Streams, and Canals: CEE 162E, CEE 262E (Spr)
- Seminar in Fluid Mechanics: ENGR 298 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Elisa Boles

Doctoral Dissertation Advisor (AC)

Jenny Hamilton

Master's Program Advisor

Zandreas Benitez, Alison Cohen, Grace Geier, Tianchen He, Xenia Kong, Kyra Kraft, Sarah Paulson, Olivia Wang, Astrid Wheeler

Publications

PUBLICATIONS

- **On the use of simplified geometries to represent turbulent flow over coral reefs** *Journal of Fluid Mechanics*
Hamilton, J. F., Kelley, B. Z., Monismith, S. G., Koseff, J. R.
2025; 1004
- **Bottom Stress and Drag on a Shallow Coral Reef** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Boles, E., Khrizman, A., Hamilton, J., Mucciarone, D., Dunbar, R., Koseff, J., Monismith, S.
2024; 129 (11)
- **Dispersion of inertial particles in turbulent canopy flows with buoyant and nonbuoyant plumes** *PHYSICAL REVIEW FLUIDS*
Chung, H., Sunberg, L. C., MacDonald, E., Ouellette, N. T., Koseff, J. R.
2024; 9 (9)
- **Moving from total risk to community-based risk trajectories increases transparency and equity in flood risk mitigation planning along urban rivers** *ENVIRONMENTAL RESEARCH LETTERS*
Serafin, K. A., Koseff, J. R., Ouyang, D., Suckale, J.
2024; 19 (6)
- **Parametric Study of the dispersion of inertial ellipsoidal particles in a wave-current flow** *Physical Review Fluids*
Sunberg, L. K., DiBenedetto, M. H., Ouellette, N. T., Koseff, J. R.
2024; 9
- **Underlying physics of mixing efficiency for shear-forced, stratified turbulence** *Physical Review Fluids*
Yi, Y. R., Koseff, J. R.
2023; 8
- **Interaction of a buoyant plume with a turbulent canopy mixing layer** *Physical Review Fluids*

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- Chung, H., Koseff, J. R.
2023; 8
- **Dispersion of finite-size, non-spherical particles by waves and currents** *JOURNAL OF FLUID MECHANICS*
Clark, L. K., DiBenedetto, M. H., Ouellette, N. T., Koseff, J. R.
2022; 954
 - **Revised mixing coefficient scaling for sheared stably stratified turbulence** *JOURNAL OF FLUID MECHANICS*
Yi, Y. R., Koseff, J. R.
2022; 952
 - **Extracting free-surface expressions of underwater features** *EXPERIMENTS IN FLUIDS*
Gakhar, S., Koseff, J. R., Ouellette, N. T.
2022; 63 (9)
 - **Dynamics and energetics underlying mixing efficiency in homogeneous stably stratified turbulence** *PHYSICAL REVIEW FLUIDS*
Yi, Y. R., Koseff, J. R.
2022; 7 (8)
 - **On the interaction between oncoming internal waves and a dense gravity current in a two-layer stratification** *JOURNAL OF FLUID MECHANICS*
Tanimoto, Y., Ouellette, N. T., Koseff, J. R.
2021; 932
 - **Turbulence structure and scales in canopy-wake reattachment** *PHYSICAL REVIEW FLUIDS*
Chung, H., Koseff, J.
2021; 6 (11)
 - **Secondary generation of breaking internal waves in confined basins by gravity currents** *JOURNAL OF FLUID MECHANICS*
Tanimoto, Y., Ouellette, N. T., Koseff, J. R.
2021; 917
 - **Local and Nonlocal Impacts of Gaps on Submerged Canopy Flow** *WATER RESOURCES RESEARCH*
Chung, H., Mandel, T., Zarama, F., Koseff, J. R.
2021; 57 (2)
 - **Settling of inertial nonspherical particles in wavy flow** *PHYSICAL REVIEW FLUIDS*
Clark, L. K., DiBenedetto, M. H., Ouellette, N. T., Koseff, J. R.
2020; 5 (12)
 - **On the surface expression of bottom features in free-surface flow** *JOURNAL OF FLUID MECHANICS*
Gakhar, S., Koseff, J. R., Ouellette, N. T.
2020; 900
 - **Interaction between an inclined gravity current and a pycnocline in a two-layer stratification** *JOURNAL OF FLUID MECHANICS*
Tanimoto, Y., Ouellette, N. T., Koseff, J. R.
2020; 887
 - **Interaction of a downslope gravity current with an internal wave** *JOURNAL OF FLUID MECHANICS*
Ouillon, R., Meiburg, E., Ouellette, N. T., Koseff, J. R.
2019; 873: 889–913
 - **Modeling Environmental DNA Transport in the Coastal Ocean Using Lagrangian Particle Tracking** *FRONTIERS IN MARINE SCIENCE*
Andruszkiewicz, E. A., Koseff, J. R., Fringer, O. B., Ouellette, N. T., Lowe, A. B., Edwards, C. A., Boehm, A. B.
2019; 6
 - **On the surface expression of a canopy-generated shear instability** *JOURNAL OF FLUID MECHANICS*
Mandel, T. L., Gakhar, S., Chung, H., Rosenzweig, I., Koseff, J. R.
2019; 867: 633–60

- **Orientation dynamics of nonspherical particles under surface gravity waves** *PHYSICAL REVIEW FLUIDS*
DiBenedetto, M. H., Koseff, J. R., Ouellette, N. T.
2019; 4 (3)
- **Mixing Efficiency in the Presence of Stratification: When Is It Constant?** *GEOPHYSICAL RESEARCH LETTERS*
Monismith, S. G., Koseff, J. R., White, B. L.
2018; 45 (11): 5627–34
- **Three-Dimensional Modeling of Fine Sediment Transport by Waves and Currents in a Shallow Estuary** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Chou, Y., Nelson, K. S., Holleman, R. C., Fringer, O. B., Stacey, M. T., Lacy, J. R., Monismith, S. G., Koseff, J. R.
2018; 123 (6): 4177–99
- **Vertically migrating swimmers generate aggregation-scale eddies in a stratified column** *NATURE*
Houghton, I. A., Koseff, J. R., Monismith, S. G., Dabiri, J. O.
2018; 556 (7702): 497–+
- **Shoaling internal waves may reduce gravity current transport** *ENVIRONMENTAL FLUID MECHANICS*
Hogg, C. R., Egan, G. C., Ouellette, N. T., Koseff, J. R.
2018; 18 (2): 383–94
- **Transport of anisotropic particles under waves** *JOURNAL OF FLUID MECHANICS*
DiBenedetto, M. H., Ouellette, N. T., Koseff, J. R.
2018; 837: 320–40
- **How we compute N matters to estimates of mixing in stratified flows** *JOURNAL OF FLUID MECHANICS*
Arthur, R. S., Venayagamoorthy, S. K., Koseff, J. R., Fringer, O. B.
2017; 831
- **Characterizing free-surface expressions of flow instabilities by tracking submerged features** *EXPERIMENTS IN FLUIDS*
Mandel, T. L., Rosenzweig, I., Chung, H., Ouellette, N. T., Koseff, J. R.
2017; 58 (11)
- **Local versus volume-integrated turbulence and mixing in breaking internal waves on slopes** *JOURNAL OF FLUID MECHANICS*
Arthur, R. S., Koseff, J. R., Fringer, O. B.
2017; 815: 169-198
- **Low order physical models of vertical axis wind turbines** *JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY*
Craig, A. E., Dabiri, J. O., Koseff, J. R.
2017; 9 (1)
- **Flow Kinematics in Variable-Height Rotating Cylinder Arrays** *JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME*
Craig, A. E., Dabiri, J. O., Koseff, J. R.
2016; 138 (11)
- **On the flux Richardson number in stably stratified turbulence** *JOURNAL OF FLUID MECHANICS*
Venayagamoorthy, S. K., Koseff, J. R.
2016; 798
- **On the flux Richardson number in stably stratified turbulence** *JOURNAL OF FLUID MECHANICS*
Venayagamoorthy, S. K., Koseff, J. R.
2016; 798
- **A Kinematic Description of the Key Flow Characteristics in an Array of Finite-Height Rotating Cylinders** *JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME*
Craig, A. E., Dabiri, J. O., Koseff, J. R.
2016; 138 (7)
- **Characteristics of bolus formation and propagation from breaking internal waves on shelf slopes** *JOURNAL OF FLUID MECHANICS*
Moore, C. D., Koseff, J. R., Hult, E. L.

2016; 791: 260-283

- **Bivalve Grazing Can Shape Phytoplankton Communities** *FRONTIERS IN MARINE SCIENCE*
Lucas, L., Cloern, J. E., Thompson, J. K., Stacey, M. T., Koseff, J. R.
2016; 3
- **Three-dimensional wave-coupled hydrodynamics modeling in South San Francisco Bay** *COMPUTERS & GEOSCIENCES*
Chou, Y., Holleman, R. C., Fringer, O. B., Stacey, M. T., Monismith, S. G., Koseff, J. R.
2015; 85: 10-21
- **The attenuation of current- and wave-driven flow within submerged multispecific vegetative canopies** *LIMNOLOGY AND OCEANOGRAPHY*
Weitzman, J. S., Zeller, R. B., Thomas, F. I., Koseff, J. R.
2015; 60 (6): 1855-1874
- **Introduction: 32nd Annual Gallery of Fluid Motion (San Francisco, California, USA, 2014)** *PHYSICS OF FLUIDS*
Mungal, M., Koseff, J. R.
2015; 27 (9)
- **A simple and practical model for combined wave-current canopy flows** *JOURNAL OF FLUID MECHANICS*
Zeller, R. B., Zarama, F. J., Weitzman, J. S., Koseff, J. R.
2015; 767: 842-880
- **A New Approach To Wind Energy: Opportunities And Challenges** *3rd Physics of Sustainable Energy (PSE) Conference*
Dabiri, J. O., Greer, J. R., Koseff, J. R., Moin, P., Peng, J.
AMER INST PHYSICS.2015: 51-57
- **On the use of refractive-index-matched hydrogel for fluid velocity measurement within and around geometrically complex solid obstructions** *EXPERIMENTS IN FLUIDS*
Weitzman, J. S., Samuel, L. C., Craig, A. E., Zeller, R. B., Monismith, S. G., Koseff, J. R.
2014; 55 (12)
- **Stratified turbulence in the nearshore coastal ocean: Dynamics and evolution in the presence of internal bores** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Walter, R. K., Squibb, M. E., Woodson, C. B., Koseff, J. R., Monismith, S. G.
2014; 119 (12): 8709-8730
- **Improved parameterization of seagrass blade dynamics and wave attenuation based on numerical and laboratory experiments** *LIMNOLOGY AND OCEANOGRAPHY*
Zeller, R. B., Weitzman, J. S., Abbett, M. E., Zarama, F. J., Fringer, O. B., Koseff, J. R.
2014; 59 (1): 251-266
- **High-resolution carbon budgets on a Palau back-reef modulated by interactions between hydrodynamics and reef metabolism** *LIMNOLOGY AND OCEANOGRAPHY*
Teneva, L., Dunbar, R. B., Mucciarone, D. A., Dunckley, J. F., Koseff, J. R.
2013; 58 (5): 1851-1870
- **Interaction of waves and currents with kelp forests (*Macrocystis pyrifera*): Insights from a dynamically scaled laboratory model** *LIMNOLOGY AND OCEANOGRAPHY*
Rosman, J. H., Denny, M. W., Zeller, R. B., Monismith, S. G., Koseff, J. R.
2013; 58 (3): 790-802
- **Uptake of dissolved inorganic nitrogen by shallow seagrass communities exposed to wave-driven unsteady flow** *MARINE ECOLOGY PROGRESS SERIES*
Weitzman, J. S., Aveni-Deforge, K., Koseff, J. R., Thomas, F. I.
2013; 475: 65-83
- **Interactions between a kelp forest (*Macrocystispyrifera*) and waves: Insights from a dynamically scaled laboratory model** *Limnology and Oceanography*
Rosman, J., H., Denny, M., W., Zeller, R., Monismith, S., G., Koseff, J., R.
2013; 3 (58): 790-802

- **Comparison of mixing efficiency and vertical diffusivity models from temperature microstructure** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Dunckley, J. F., Koseff, J. R., Steinbuck, J. V., Monismith, S. G., Genin, A.
2012; 117
- **A short-term in situ CO2 enrichment experiment on Heron Island (GBR)** *SCIENTIFIC REPORTS*
Kline, D. I., Teneva, L., Schneider, K., Miard, T., Chai, A., Marker, M., Headley, K., Opdyke, B., Nash, M., Valetich, M., Caves, J. K., Russell, B. D., Connell, et al
2012; 2
- **Conditions for bolus formation from breaking internal waves on shelf slopes**
Moore, C., D., Hult, E., L., Koseff, J., R.
2012
- **Hydrodynamics of a Headland Kelp Forest**
Alnajjar, M., W., Woodson, C., B., Monismith, S., G., Koseff, J., R., Genin, A., Litvin, S.
2012
- **Modeling the Impact of Sea-Level Rise on Salinity Intrusion in San Francisco Bay**
Chua, V., P., Fringer, O., B., Fong, D., A., Monismith, S., G., Koseff, J., R.
2012
- **The fine-scale hydrodynamics of a sloping coral reef: Eilat Israel**
Dunckley, J., F., Koseff, J., R., Genin, A., Monismith, S., G., Woodson, C., B., Lindemann, Y.
2012
- **Seagrass blade dynamics in unidirectional, oscillatory, and combined flows**
Zeller, R., B., Weitzman, J., S., Abbett, M., E., Fringer, O., B., Koseff, J., R.
2012
- **Horizontal dispersion of ocean tracers in internal wave shear** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Steinbuck, J. V., Koseff, J. R., Genin, A., Stacey, M. T., Monismith, S. G.
2011; 116
- **Numerical modeling of aquaculture dissolved waste transport in a coastal embayment** *ENVIRONMENTAL FLUID MECHANICS*
Venayagamoorthy, S. K., Ku, H., Fringer, O. B., Chiu, A., Naylor, R. L., Koseff, J. R.
2011; 11 (4): 329-352
- **The mixing efficiency of interfacial waves breaking at a ridge: 2. Local mixing processes** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Hult, E. L., Troy, C. D., Koseff, J. R.
2011; 116
- **The mixing efficiency of interfacial waves breaking at a ridge: 1. Overall mixing efficiency** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Hult, E. L., Troy, C. D., Koseff, J. R.
2011; 116
- **Currents and turbulence within a kelp forest (*Macrocystis pyrifera*): Insights from a dynamically scaled laboratory model** *LIMNOLOGY AND OCEANOGRAPHY*
Rosman, J. H., Monismith, S. G., Denny, M. W., Koseff, J. R.
2010; 55 (3): 1145-1158
- **Turbulent mixing in fine-scale phytoplankton layers: Observations and inferences of layer dynamics** *CONTINENTAL SHELF RESEARCH*
Steinbuck, J. V., Genin, A., Monismith, S. G., Koseff, J. R., Holzman, R., Labiosa, R. G.
2010; 30 (5): 442-455
- **Harmonic generation of interfacial waves at a submerged bathymetric ridge** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Hult, E. L., Troy, C. D., Koseff, J. R.
2010; 115

- **Wavy turbulence in Florida Bay seagrass canopies**
Weitzman, J., S., Aveni-Deforge, K., Koseff, J., R., Thomas, F., I.
2010
- **Spatial and Temporal Variability of Internal Wave Mixing at a Submerged Ridge**
Hult, E., L., Troy, C., D., Koseff, J., K.
2010
- **Evolution of a reef pass jet from microstructure profiles**
Fleischfresser, J., D., Hench, J., L., Walter, L., M., Monismith, S., G., Koseff, J., R.
2010
- **Horizontal dispersion of ocean tracers in internal wave shear**
Steinbuck, J., V., Koseff, J., R., Genin, A., Stacey, M., T., Monismith, S., G.
2010
- **The breaking of interfacial waves at a submerged bathymetric ridge** *JOURNAL OF FLUID MECHANICS*
Hult, E. L., Troy, C. D., Koseff, J. R.
2009; 637: 45-71
- **Intense benthic grazing of phytoplankton in a coral reef** *LIMNOLOGY AND OCEANOGRAPHY*
Genin, A., Monismith, S. G., Reidenbach, M. A., Yahel, G., Koseff, J. R.
2009; 54 (3): 938-951
- **Shallow water processes govern system-wide phytoplankton bloom dynamics: A modeling study** *JOURNAL OF MARINE SYSTEMS*
Lucas, L. V., Koseff, J. R., Monismith, S. G., Thompson, J. K.
2009; 75 (1-2): 70-86
- **Hydrodynamic forces on larvae affect their settlement on coral reefs in turbulent, wave-driven flow** *LIMNOLOGY AND OCEANOGRAPHY*
Reidenbach, M. A., Koseff, J. R., Koehl, M. A.
2009; 54 (1): 318-330
- **Shallow water processes govern system-wide phytoplankton bloom dynamics: A field study** *JOURNAL OF MARINE SYSTEMS*
Thompson, J. K., Koseff, J. R., Monismith, S. G., Lucas, L. V.
2008; 74 (1-2): 153-166
- **Modeling flow in coral communities with and without waves: A synthesis of porous media and canopy flow approaches** *LIMNOLOGY AND OCEANOGRAPHY*
Lowe, R. J., Shavit, U., Falter, J. L., Koseff, J. R., Monismith, S. G.
2008; 53 (6): 2668-2680
- **Extracting Reynolds stresses from acoustic Doppler current profiler measurements in wave-dominated environments** *JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY*
Rosman, J. H., Hench, J. L., Koseff, J. R., Monismith, S. G.
2008; 25 (2): 286-306
- **Density stratification, turbulence, but how much mixing?** *ANNUAL REVIEW OF FLUID MECHANICS*
Ivey, G. N., Winters, K. B., Koseff, J. R.
2008; 40: 169-184
- **The coupling of hydrodynamics and nutrient exchange in natural seagrass canopies, Part I: flow conditions**
Weitzman, J., S., Aveni-Deforge, K., Koseff, J., R., Thomas, F., I.
2008
- **Flow development and turbulence generation within a kelp forest (*MacrosystisPyrifera*): lessons from a small scale laboratory model**
Rosman, J., H., Koseff, J., R., Monismith, S., G.
2008
- **The coupling of hydrodynamics and nutrient exchange in natural seagrass canopies, Part II: canopy characteristics and nutrient uptake**
Aveni-Deforge, K., Weitzman, J., S., Koseff, J., R., Thomas, F., I

2008

- **In situ Lagrangian measurements of phytoplankton production and mortality: a net heterotrophic state of the upper oligotrophic water column**
Genin, A., Koseff, J. R., Monismith, S. G., Steinbuck, J. V., Vaknin, R., Holtzman, R.
2008
- **Modeling the effect of wind-waves on the evolution of marshplains and mudflats**
Lee, S., Brennan, M., Crooks, S., Orr, M., Koseff, J. R., Monismith, S. G.
2008
- **Observations of a planktonic layer in its physical environment**
Steinbuck, J. V., Genin, A., Monismith, S. G., Koseff, J. R., Holtzman, R.
2008
- **Simulations of Mixing and Transport of Dissolved Waste Discharged from near-coastal aquaculture pen**
Venayagamoorthy, S. K., Fringer, O. B., Koseff, J. R., Naylor, R. L.
2008
- **Wave instability criteria for interfacial waves breaking over a ridge**
Hult, E. L., Troy, C. D., Koseff, J. R.
2008
- **Spatial patterns of flow and their modification within and around a giant kelp forest** *LIMNOLOGY AND OCEANOGRAPHY*
Gaylord, B., Rosman, J. H., Reed, D. C., Koseff, J. R., Fram, J., Macintyre, S., Arkema, K., McDonald, C., Brzezinski, M. A., Largier, J. L., Monismith, S. G., Raimondi, P. T., Mardian, et al
2007; 52 (5): 1838-1852
- **Laboratory experiments of fine-scale mixing and mass transport within a coral canopy** *PHYSICS OF FLUIDS*
Reidenbach, M. A., Koseff, J. R., Monismith, S. G.
2007; 19 (7)
- **Spectral wave flow attenuation within submerged canopies: Implications for wave energy dissipation** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Lowe, R. J., Falter, J. L., Koseff, J. R., Monismith, S. G., Atkinson, M. J.
2007; 112 (C5)
- **A field investigation into the effects of a kelp forest (*Macrocystis pyrifera*) on coastal hydrodynamics and transport** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Rosman, J. H., Koseff, J. R., Monismith, S. G., Grover, J.
2007; 112 (C2)
- **Individual-based model of larval transport to coral reefs in turbulent, wave-driven flow: behavioral responses to dissolved settlement inducer** *MARINE ECOLOGY PROGRESS SERIES*
Koehl, M. A., Strother, J. A., Reidenbach, M. A., Koseff, J. R., Hadfield, M. G.
2007; 335: 1-18
- **Richardson number measurements in breaking internal waves**
Hult, E. L., Koseff, J. R., Troy, C. D.
2007
- **Simulations of Mixing and Transport of Dissolved Waste Discharged from a submerged aquaculture pen**
Venayagamoorthy, S. K., Fringer, O. B., Koseff, J. R., Naylor, R. L.
2007
- **Structure of mass and momentum fields over a model aggregation of benthic filter feeders** *BIOGEOSCIENCES*
Crimaldi, J. P., Koseff, J. R., Monismith, S. G.
2007; 4 (3): 269-282
- **Effects of nonlocal turbulence on the mass transfer of dissolved species to reef corals** *LIMNOLOGY AND OCEANOGRAPHY*
Falter, J. L., Atkinson, M. J., Lowe, R. J., Monismith, S. G., Koseff, J. R.

2007; 52 (1): 274-285

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