



Manu Prakash

Associate Professor of Bioengineering, Senior Fellow at the Woods Institute for the Environment and Associate Professor, by courtesy, of Oceans and of Biology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

• Alternate Contact

Jasmine Desiderio - Lab Administrator

Email jdes@stanford.edu

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Bio

BIO

We use interdisciplinary approaches including theory and experiments to understand how computation is embodied in biological matter. Examples include cognition in single cell protists and morphological computing in animals with no neurons and origins of complex behavior in multi-cellular systems. Broadly, we invent new tools for studying non-model organisms with significant focus on life in the ocean - addressing fundamental questions such as how do cells sense pressure or gravity? Finally, we are dedicated towards inventing and distributing “frugal science” tools to democratize access to science (previous inventions used worldwide: Foldscope, Abuzz), diagnostics of deadly diseases like malaria and convening global citizen science communities to tackle planetary scale environmental challenges such as mosquito surveillance or plankton surveillance by citizen sailors mapping the ocean in the age of Anthropocene.

ACADEMIC APPOINTMENTS

- Associate Professor, Bioengineering
- Senior Fellow, Stanford Woods Institute for the Environment
- Associate Professor (By courtesy), Biology
- Associate Professor (By courtesy), Oceans
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Affiliate, Stanford Woods Institute for the Environment
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Core Leadership Team, Stanford Center for Innovation in Global Health, (2017- present)
- Board member,, Jasper Ridge Reserve, Stanford (<https://jrpb.stanford.edu>), (2017- present)

HONORS AND AWARDS

- MIT Ideas Sustainability Prize, MIT (2003)

- Lemelson MIT Student Finalist Award, Lemelson Foundation (2008)
- Junior Fellow (Physics), Harvard Society of Fellows (2008-2011)
- Frederick E. Terman Fellow, Stanford University (2011-2013)
- TED Senior Fellow, Technology, Entertainment and Design (TED) (2011-2013)
- Pew Scholar, Pew Foundation (2013-2017)
- Brilliant 10, Popular Science Brilliant 10 (2014)
- TR35, MIT Technology Review (2014)
- Emerging Explorer, National Geographic (2015)
- MacArthur Fellow, MacArthur Foundation (2016)
- HHMI-Gates Faculty Scholar, HHMI (2016-2021)
- 25 People Shaping the Future, Rolling Stone Magazine (2017)
- Chan Zuckerberg BioHub Investigator, Chan Zuckerberg BioHub (2017)
- INDEX Design Award, INDEX (2017)
- NSF “Vizzies” Experts’ Choice Award, Popular Science (2017)
- Tau Beta Pi Teaching Award, Tau Beta Pi (2017)
- WIRED’s Next List, WIRED (2017)
- Design of the Year Award (Paperfuge), Beazley (2018)
- Inaugural Fellow, Leading Interdisciplinary Collaborations, Stanford Woods Institute (2018)
- Town & Country’s 50, Town & Country Magazine (2018)
- The Creative Class of 2019, Newsweek (2019)
- Humanitarian Award for Contributions in Science, Technology and Robotics, Rotary International (2020)
- Unilever Colworth Prize, Microbiology Society (2020)
- Ernst Abbe Award, New York Microscopical Society (2021)
- Schmidt Innovation Fellow, Schmidt Foundation (2021)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-founder, Foldscope Instruments (2017 - present)
- Board Member, Ciencia Puerto Rico (<https://www.cienciapr.org>) (2017 - present)
- Board Member, PIVOT (<http://pivotworks.org>) (2017 - present)

PROFESSIONAL EDUCATION

- Ph.D., Massachusetts Institute of Technology , Field of Study: Applied Physics (MAS) (2008)
- M.S., Massachusetts Institute of Technology , Field of Study: Applied Physics (MAS) (2004)
- B.Tech, Indian Institute of Technology , Field of Study: Computer Science and Engineering (2002)

COMMUNITY AND INTERNATIONAL WORK

- Planktoscope
- Octopi: Malaria diagnostics platform
- Foldscope, India
- Low-cost scanning of oral cavity, Kenya and India

PATENTS

- Manu Prakash, Anesta KOTHARIA Adam George Larson Shailabh Kumar Hazel Soto-Montoya. "United States Patent WO2022071996A1 Co-axial plunger based home molecular diagnostics kit", Leland Stanford Junior University, Sep 30, 2020
- Manu Prakash, Hongquan LI. "United States Patent WO2020242978A1 A spectral imaging platform for infectious disease diagnosis", Leland Stanford Junior University, May 24, 2019
- Zhang, S., Mershin, A., Kaiser, K., Cook, B., Graveland-Bikker, J.F., Prakash, M., Kong, D., Maguire, Y.. "United States Patent US9714941 Bio-sensing nanodevice", Jul 25, 2017
- Manu Prakash, Deepak Krishnamurthy. "United States Patent US11033006B2 Hydrodynamic treadmill: a tracking device to study biotic/abiotic systems in gravitational and hydrodynamic fields", Leland Stanford Junior University,, Jun 28, 2017
- Manu Prakash, Georgios Katsikis. "United States Patent US20160339425A1 Synchronous Universal Droplet Logic", Leland Stanford Junior University, May 17, 2017
- Manu Prakash, Mohammed Saad BHAMLA James Stanley CYBULSKI Chew CHAIAanchal JOHRIBrandon BENSON. "United States Patent WO2017127248A1 Paperfuge: an integrated paper-based centrifugation and microfluidics platform for low-cost diagnostics", Leland Stanford Junior University, Jan 18, 2016
- Manu Prakash, George KORIR. "United States Patent WO2014039844A2 Punch card programmable microfluidics", Leland Stanford Junior University, Sep 6, 2012
- Prakash M., Cybulski J., Clements J.. "United States Patent US9696535 Foldscope: Ultra-low-cost fluorescence microscope constructed via folding", Leland Stanford Junior University,, Jul 4, 0017
- Prakash M., Gershenfeld N.. "United States Patent US9404835 Microfluidic bubble logic", Massachusetts Institute of Technology, Aug 2, 0016
- Chow B., Joo J., Prakash M.. "United States Patent US8367435 Methods and apparatus for control of hydrothermal nanowire synthesis", Massachusetts Institute of Technology, Jun 16, 0013

LINKS

- Prakash Lab website: <https://web.stanford.edu/group/prakash-lab/>
- Foldscope Instruments: <http://www.foldscope.com>
- Planktoscope project website: www.planktoscope.org
- Gravity machine project website: <https://gravitymachine.org/>
- Project website for open source ventilator: <https://www.pez-globo.org/>
- N95 decontamination community website: <https://www.n95decon.org/>
- India COVID mitigation volunteer group: <https://www.indiacovidsos.org/>
- electricity free molecular testing for COVID: www.snapdx.org
- PrakashLab COVID projects: <http://web.stanford.edu/group/prakash-lab/cgi-bin/labsite/covid19/>
- Octopi malaria diagnostics project: <https://octopi-imaging.org/>
- Open source modular microscopy platform: <https://squid-imaging.org/>

Research & Scholarship

CLINICAL TRIALS

- Rapid Turnaround, Home-based Saliva Testing for COVID-19, Not Recruiting

Teaching

COURSES

2023-24

- Frugal Science: BIOE 271 (Win)
- The Art of Observation: Table Top Explorations In Natural Philosophy: BIOE 337 (Win)

2022-23

- Frugal Science: BIOE 271 (Win)

2021-22

- Frugal Science: BIOE 271 (Spr)
- Senior Capstone Design I: BIOE 141A (Aut)

2020-21

- Frugal Science: BIOE 271 (Aut)
- Senior Capstone Design I: BIOE 141A (Aut)
- Senior Capstone Design II: BIOE 141B (Win)

STANFORD ADVISEES

Med Scholar Project Advisor

Kajal Maran

Doctoral Dissertation Reader (AC)

Chew Chai, Sasha Zemsky

Postdoctoral Faculty Sponsor

JIJUMON A S, Rahul Chajwa, Melanie Hannebelle, Adam Larson, Anton Molina, Vishal Patil, Qing Zhang

Doctoral Dissertation Advisor (AC)

Charlotte Brannon, Ray Chang, Ellie Flaum, Ian Ho, Hope Leng, Ethan Li, Hongquan Li, Anton Molina, Jerome Nowak, Pranav Vyas, Grace Zhong

Doctoral Dissertation Co-Advisor (AC)

Selena Chiu

Doctoral (Program)

Ray Chang, Gustavo Chau Loo Kung, Micah Lawrence, Alex Leffell, Jiawei Sun

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Biophysics (Phd Program)

Publications

PUBLICATIONS

- **Active foam: the adaptive mechanics of 2D air-liquid foam under cyclic inflation.** *Soft matter*
Kroo, L. A., Bull, M. S., Prakash, M.
2023
- **Effect of age on wingbeat frequency of *Aedes aegypti* and potential application for age estimation of mosquitoes.** *Medical and veterinary entomology*
Park, D., Bowles, J., Norrid, K., Dobson, F. S., Abebe, A., Narayanan, H. V., Prakash, M., Blagburn, B., Starkey, L., Zohdy, S.
2023
- **Active sinking particles: sessile suspension feeders significantly alter the flow and transport to sinking aggregates.** *Journal of the Royal Society, Interface*
Krishnamurthy, D., Pepper, R., Prakash, M.
2023; 20 (199): 20220537
- **Energetics of the Microsporidian Polar Tube Invasion Machinery.** *bioRxiv : the preprint server for biology*
Chang, R., Davydov, A., Jaroenlak, P., Budaitis, B., Ekiert, D. C., Bhabha, G., Prakash, M.
2023

- **Plankton Planet: A frugal, cooperative measure of aquatic life at the planetary scale** *FRONTIERS IN MARINE SCIENCE*
de Vargas, C., Le Bescot, N., Pollina, T., Henry, N., Romac, S., Colin, S., Haentjens, N., Carmichael, M., Berger, C., Le Guen, D., Decelle, J., Mahe, F., Poulain, et al
2022; 9
- **PlanktoScope: Affordable Modular Quantitative Imaging Platform for Citizen Oceanography** *FRONTIERS IN MARINE SCIENCE*
Pollina, T., Larson, A. G., Lombard, F., Li, H., Le Guen, D., Colin, S., de Vargas, C., Prakash, M.
2022; 9
- **Basin-Scale Underway Quantitative Survey of Surface Microplankton Using Affordable Collection and Imaging Tools Deployed From Tara** *FRONTIERS IN MARINE SCIENCE*
Meriguet, Z., Oddone, A., Le Guen, D., Pollina, T., Bazile, R., Moulin, C., Trouble, R., Prakash, M., de Vargas, C., Lombard, F.
2022; 9
- **A freely suspended robotic swimmer propelled by viscoelastic normal stresses** *JOURNAL OF FLUID MECHANICS*
Kroo, L. A., Binagia, J. P., Eckman, N., Prakash, M., Shaqfeh, E. G.
2022; 944
- **Low cost centrifugal melt spinning for distributed manufacturing of non-woven media.** *PloS one*
Molina, A., Vyas, P., Khlystov, N., Kumar, S., Kothari, A., Deriso, D., Liu, Z., Banavar, S., Flaum, E., Prakash, M.
2022; 17 (4): e0264933
- **Engineering reconfigurable flow patterns via surface-driven light-controlled active matter** *PHYSICAL REVIEW FLUIDS*
Gong, X., Mathijssen, A. M., Bryant, Z., Prakash, M.
2021; 6 (12)
- **A microfluidic platform for highly parallel bite by bite profiling of mosquito-borne pathogen transmission.** *Nature communications*
Kumar, S., Hol, F. J., Pujhari, S., Ellington, C., Narayanan, H. V., Li, H., Rasgon, J. L., Prakash, M.
2021; 12 (1): 6018
- **Modeling epithelial tissues as active-elastic sheets reproduce contraction pulses and predict rip resistance** *COMMUNICATIONS PHYSICS*
Armon, S., Bull, M. S., Moriel, A., Aharoni, H., Prakash, M.
2021; 4 (1)
- **Droplet tilings for rapid exploration of spatially constrained many-body systems.** *Proceedings of the National Academy of Sciences of the United States of America*
Molina, A., Kumar, S., Karpitschka, S., Prakash, M.
2021; 118 (34)
- **Choosing Wisely for COVID-19: ten evidence-based recommendations for patients and physicians.** *Nature medicine*
Pramesh, C. S., Babu, G. R., Basu, J., Bhushan, I., Booth, C. M., Chinnaswamy, G., Guleria, R., Kalantri, S. P., Kang, G., Mohan, P., Mor, N., Pai, M., Prakash, et al
2021
- **India's COVID-19 crisis: a call for international action.** *Lancet (London, England)*
Kuppalli, K., Gala, P., Cherabuddi, K., Kalantri, S. P., Mohanan, M., Mukherjee, B., Pinto, L., Prakash, M., Pramesh, C. S., Rathi, S., Pai, N. P., Yamey, G., Pai, et al
2021
- **multiSero: open multiplex-ELISA platform for analyzing antibody responses to SARS-CoV-2 infection.** *medRxiv : the preprint server for health sciences*
Byrum, J. R., Waltari, E., Janson, O., Guo, S. M., Folkesson, J., Chhun, B. B., Vinden, J., Ivanov, I. E., Forst, M. L., Li, H., Larson, A. G., Wu, W., Tato, et al
2021
- **Motility-induced fracture reveals a ductile-to-brittle crossover in a simple animal's epithelia** *NATURE PHYSICS*
Prakash, V. N., Bull, M. S., Prakash, M.
2021
- **Modified full-face snorkel masks as reusable personal protective equipment for hospital personnel.** *PloS one*
Kroo, L., Kothari, A., Hannebelle, M., Herring, G., Pollina, T., Chang, R., Peralta, D., Banavar, S. P., Flaum, E., Soto-Montoya, H., Li, H., Combes, K., Pan, et al
2021; 16 (1): e0244422

- **Applying heat and humidity using stove boiled water for decontamination of N95 respirators in low resource settings.** *PloS one*
Doshi, S., Banavar, S. P., Flaum, E., Kulkarni, S., Vaidya, U., Kumar, S., Chen, T., Bhattacharya, A., Prakash, M.
2021; 16 (9): e0255338
- **Sensory Discrimination of Blood and Floral Nectar by Aedes aegypti Mosquitoes.** *Neuron*
Jove, V., Gong, Z., Hol, F. J., Zhao, Z., Sorrells, T. R., Carroll, T. S., Prakash, M., McBride, C. S., Vosshall, L. B.
2020
- **BiteScope, an open platform to study mosquito biting behavior.** *eLife*
Hol, F. J., Lambrechts, L., Prakash, M.
2020; 9
- **Multi-scale spatial heterogeneity enhances particle clearance in airway ciliary arrays.** *Nature physics*
Juan, G. R., Mathijssen, A. J., He, M., Jan, L., Marshall, W., Prakash, M.
2020; 16 (9): 958-964
- **Scale-free vertical tracking microscopy.** *Nature methods*
Krishnamurthy, D., Li, H., Benoit du Rey, F., Cambournac, P., Larson, A. G., Li, E., Prakash, M.
2020
- **Multi-scale spatial heterogeneity enhances particle clearance in airway ciliary arrays** *NATURE PHYSICS*
Ramirez-San Juan, G. R., Mathijssen, A. M., He, M., Jan, L., Marshall, W., Prakash, M.
2020
- **The multiscale physics of cilia and flagella** *Nature Physics Review*
Gilpin, W., Bull, M. S., Prakash, M.
2020; 2: 74-88
- **An investigation of Dirofilaria immitis infection and its effects on mosquito wingbeat frequencies.** *Veterinary parasitology*
Park, D. n., Bowles, J. n., McKenzie, B. n., Narayanan, H. V., Prakash, M. n., Blagburn, B. n., Starkey, L. n., Zohdy, S. n.
2020; 283: 109112
- **Coupled Active Systems Encode an Emergent Hunting Behavior in the Unicellular Predator Lacrymaria olor.** *Current biology : CB*
Coyle, S. M., Flaum, E. M., Li, H., Krishnamurthy, D., Prakash, M.
2019
- **Collective intercellular communication through ultra-fast hydrodynamic trigger waves.** *Nature*
Mathijssen, A. J., Culver, J., Bhamla, M. S., Prakash, M.
2019
- **BITES, BLOOD AND BEHAVIOR: BIOPHYSICAL APPROACHES TO UNDERSTANDING MOSQUITO BLOOD-FEEDING BEHAVIOR**
Hol, F. J., Lambrechts, L., Prakash, M.
AMER SOC TROP MED & HYGIENE.2019: 444
- **Frugal Science in the Age of Curiosity** Manu Prakash, Jim Cybulski, Rebecca Konte, Team Foldscope and the global Foldscope community
Prakash, M., Cybulski, J., Konte, R., Team Foldscope Global Foldscope Co, Boucher, M. P., Helmreich, S., Kinney, L. W., Tibbits, S., Uchill, R., Ziporyn, E.
MIT PRESS.2019: 26-29
- **VECTOR CHIP: A MINIATURIZED PLATFORM FOR HIGH-THROUGHPUT INTERROGATION OF MOSQUITO-PATHOGEN DYNAMICS**
Kumar, S., Hol, F., Prakash, M.
AMER SOC TROP MED & HYGIENE.2019: 421-22
- **OPENMM - A LOW-COST, MODULAR, AND AUTONOMOUS MICROSCOPE FOR MALARIA DIAGNOSIS AND BEYOND**
Li, H., Soto-Montoya, H., Valenzuela, L. F., Voisin, M., Prakash, M.
AMER SOC TROP MED & HYGIENE.2019: 484
- **ABUZZ : A MOBILE PHONE BASED CITIZEN SCIENCE PLATFORM FOR CROWDSOURCING ECOLOGICAL DATA FOR MOSQUITO SURVEILLANCE**
Mukundarajan, H., Konte, R., Hol, F. J., Soto-Montoya, H., Murphy, A., McKenzie, B., Abernethy, S., Park, D., Zohdy, S., Prakash, M.
AMER SOC TROP MED & HYGIENE.2019: 448

- **Ultrafast epithelial contractions provide insights into contraction speed limits and tissue integrity.** *Proceedings of the National Academy of Sciences of the United States of America*
Armon, S., Bull, M. S., Aranda-Diaz, A., Prakash, M.
2018
- **Two-component marangoni-contracted droplets: friction and shape** *SOFT MATTER*
Benusiglio, A., Cira, N. J., Prakash, M.
2018; 14 (37): 7724–30
- **Two-component marangoni-contracted droplets: friction and shape.** *Soft matter*
Benusiglio, A., Cira, N. J., Prakash, M.
2018
- **The principles of cascading power limits in small, fast biological and engineered systems** *SCIENCE*
Ilton, M., Bhamla, M., Ma, X., Cox, S. M., Fitchett, L. L., Kim, Y., Koh, J., Krishnamurthy, D., Kuo, C., Temel, F., Crosby, A. J., Prakash, M., Sutton, et al
2018; 360 (6387): 397–+
- **Synchronous magnetic control of water droplets in bulk ferrofluid** *SOFT MATTER*
Katsikis, G., Breant, A., Rinberg, A., Prakash, M.
2018; 14 (5): 681–92
- **Ultra Fast Contractions and Emergent Dynamics in a Living Active Solid - The Epithelium of the Primitive Animal *Trichoplax adhaerens***
Armon, S., Prakash, M.
CELL PRESS.2018: 649A
- **Local Epithelial Fracture and Healing Mechanics Dictate Morphogenesis and Asexual Reproduction in *Trichoplax adhaerens***
Prakash, V. N., Bhargava, A., Prakash, M.
CELL PRESS.2018: 651A–652A
- **Using mobile phones as acoustic sensors for high-throughput mosquito surveillance** *ELIFE*
Mukundarajan, H., Hol, F., Castillo, E., Newby, C., Prakash, M.
2017; 6
- **Flowtrace: simple visualization of coherent structures in biological fluid flows** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Gilpin, W., Prakash, V. N., Prakash, M.
2017; 220 (19): 3411–18
- **Generation of droplet arrays with rational number spacing patterns driven by a periodic energy landscape** *PHYSICAL REVIEW E*
Rinberg, A., Katsikis, G., Prakash, M.
2017; 96 (3): 033108
- **Mapping Load-Bearing in the Mammalian Spindle Reveals Local Kinetochore Fiber Anchorage that Provides Mechanical Isolation and Redundancy.** *Current biology : CB*
Elting, M. W., Prakash, M., Udy, D. B., Dumont, S.
2017; 27 (14): 2112-2122.e5
- **Vortex arrays and ciliary tangles underlie the feeding-swimming trade-off in starfish larvae** *NATURE PHYSICS*
Gilpin, W., Prakash, V. N., Prakash, M.
2017; 13 (4): 380-386
- **Schistosoma mansoni cercariae swim efficiently by exploiting an elasto-hydrodynamic coupling** *NATURE PHYSICS*
Krishnamurthy, D., Katsikis, G., Bhargava, A., Prakash, M.
2017; 13 (3): 266-271
- **Hand-powered ultralow-cost paper centrifuge** *NATURE BIOMEDICAL ENGINEERING*
Bhamla, M., Benson, B., Chai, C., Katsikis, G., Johri, A., Prakash, M.
2017; 1 (1)
- **USING MOBILE PHONES AS ACOUSTIC SENSORS FOR HIGH-THROUGHPUT SURVEILLANCE OF MOSQUITO ECOLOGY**
Mukundarajan, H., Hol, F., Castillo, E., Newby, C., Prakash, M.

AMER SOC TROP MED & HYGIENE.2017: 21

- **Wetting: Bumps lead the way.** *Nature materials*
Prakash, M.
2016; 15 (4): 378-379
- **Surface tension dominates insect flight on fluid interfaces.** *journal of experimental biology*
Mukundarajan, H., Bardon, T. C., Kim, D. H., Prakash, M.
2016; 219: 752-766
- **Synchronous universal droplet logic and control** *NATURE PHYSICS*
Katsikis, G., Cybulski, J. S., Prakash, M.
2015; 11 (7): 588-596
- **Diagnosis of Schistosoma haematobium Infection with a Mobile Phone-Mounted Foldscope and a Reversed-Lens CellScope in Ghana** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*
Ephraim, R. K., Duah, E., Cybulski, J. S., Prakash, M., D'Ambrosio, M. V., Fletcher, D. A., Keiser, J., Andrews, J. R., Bogoch, I. I.
2015; 92 (6): 1253-1256
- **Vapour-mediated sensing and motility in two-component droplets.** *Nature*
Cira, N. J., Benusiglio, A., PRAKASH, M.
2015; 519 (7544): 446-450
- **Vapour-mediated sensing and motility in two-component droplets** *NATURE*
Cira, N. J., Benusiglio, A., Prakash, M.
2015; 519 (7544): 446-?
- **Punch card programmable microfluidics.** *PloS one*
Korir, G., Prakash, M.
2015; 10 (3)
- **Punch card programmable microfluidics.** *PloS one*
Korir, G., Prakash, M.
2015; 10 (3)
- **Emergent mechanics of biological structures** *MOLECULAR BIOLOGY OF THE CELL*
Dumont, S., Prakash, M.
2014; 25 (22): 3461-3465
- **Emergent mechanics of biological structures.** *Molecular biology of the cell*
Dumont, S., Prakash, M.
2014; 25 (22): 3461-3465
- **Foldscope: Origami-Based Paper Microscope** *PLOS ONE*
Cybulski, J. S., Clements, J., Prakash, M.
2014; 9 (6)
- **Probing the Mechanical Coupling of the Cell Membrane to the Nucleus with Vertical Nanopillar Arrays** *57th Annual Meeting of the Biophysical-Society*
Hanson, L., Urzay, J., Lin, Z., Zhao, W., Prakash, M., Cui, B.
CELL PRESS.2013: 546A-546A
- **Hydraulic stress induced bubble nucleation and growth during pupal metamorphosis** *Annual Meeting of the Society-for-Integrative-and-Comparative-Biology (SICB)/Symposium on New Frontiers from Marine Snakes to Marine Ecosystems*
Prakash, M.
OXFORD UNIV PRESS INC.2012: E140-E140
- **Flying in two dimensions** *Annual Meeting of the Society-for-Integrative-and-Comparative-Biology (SICB)/Symposium on New Frontiers from Marine Snakes to Marine Ecosystems*
Prakash, M., Donald, K.
OXFORD UNIV PRESS INC.2012: E141-E141

- **The hungry fly: Hydrodynamics of feeding in the common house fly** *PHYSICS OF FLUIDS*
Prakash, M., Steele, M.
2011; 23 (9)
- **Face-selective electrostatic control of hydrothermal zinc oxide nanowire synthesis** *NATURE MATERIALS*
Joo, J., Chow, B. Y., Prakash, M., Boyden, E. S., Jacobson, J. M.
2011; 10 (8): 596-601
- **Hydraulic stress induced bubble nucleation and growth during pupal metamorphosis** *Annual Meeting of the American-Society-for-Cell-Biology (ASCB)*
PRAKASH, M.
AMER SOC CELL BIOLOGY.2011
- **Face-selective electrostatic control of nanowire synthesis** *Nature Materials*
Joo, J., Chow, B., Prakash, M., Boyden, E., Jacobson, J.
2011; 10: 596-601
- **Interfacial Propulsion by Directional Adhesion** *International Journal of Non-Linear Mechanics*
Manu Prakash, John W. M. Bush
2011; 46 (4): 607-615
- **On a tweezer for droplets** *Advances in Colloid and Interface Science*
Bush, J., Peaudecerf, F., Prakash, M., Quere, D.
2010; 161: 10-14
- **Drop propulsion in tapered tubes** *Euro Physics Letters*,
Renoise, P., Bush, J., Prakash, M., Quere, D.
2009; 86: 1-5
- **Surface tension transport of prey by feeding shorebirds: The capillary ratchet** *SCIENCE*
Prakash, M., Quere, D., Bush, J. W.
2008; 320 (5878): 931-934
- **Microfluidic bubble logic** *SCIENCE*
Prakash, M., Gershenfeld, N.
2007; 315 (5813): 832-835
- **The Integument of Water-walking Arthropods: Form and Function** *Advances in Insect Physiology*
John W. M. Bush, David L. Hu, Manu Prakash
2007; 34: 117-192
- **Water walking devices** *Experiments in Fluids*
Hu, D., Prakash, M., Chan, B., Bush, J.
2007; 43: 769-778
- **Microfluidic Bubble Logic** *Science*
Prakash, M., Gershenfeld, N.
2007; 315: 832-835
- **Personal fabrication** *Teletronikk*
Gershenfeld, N., Prakash, M.
2004; 3: 22-26