

# Yohei Sato

## List of Publications by Year in descending order

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25  
papers

223  
citations

1163117

8  
h-index

996975

15  
g-index

25  
all docs

25  
docs citations

25  
times ranked

245  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Precise near-wall pH measurement in pressure-driven and electrically-driven flows using nanoscale laser-induced fluorescence imaging. Measurement Science and Technology, 2019, 30, 115204.   | 2.6  | 1         |
| 2  | Design of powder nozzle for high resource efficiency in directed energy deposition based on computational fluid dynamics simulation. International Journal of Advanced Manufacturing Technology, 2019, 105, 4107-4121.  | 3.0  | 28        |
| 3  | Origin of the blueshift of water molecules at interfaces of hydrophilic cyclic compounds. Science Advances, 2017, 3, e1701400.  | 10.3 | 22        |
| 4  | Combined Laser-Based Measurements for Micro- and Nanoscale Transport Phenomena. Heat Transfer Engineering, 2014, 35, 125-141.   | 1.9  | 2         |
| 5  | An investigation of measurement condition for non-intrusive velocity determination based on thermal tracing by Raman imaging. Journal of Thermal Science and Technology, 2014, 9, JTST0014-JTST0014.  | 1.1  | 1         |
| 6  | Non-intrusive measurement of microscale temperature distribution by spontaneous Raman imaging. Microfluidics and Nanofluidics, 2013, 14, 1031-1037.   | 2.2  | 3         |
| 7  | Velocity Measurement of Sub-Millimeter-Scale Gas Flow by Spark Tracing Method. Journal of Thermal Science and Technology, 2013, 8, 517-532.   | 1.1  | 0         |
| 8  | Effects of Micromachining Processes on Electro-Osmotic Flow Mobility of Glass Surfaces. Micromachines, 2013, 4, 67-79.  | 2.9  | 14        |
| 9  | Non-Intrusive Velocity Measurement of Millichannel Flow by Spontaneous Raman Imaging. Journal of Thermal Science and Technology, 2012, 7, 406-413.  | 1.1  | 5         |
| 10 | Effect of bubbles on turbulent kinetic energy transport in downward flow measured by time-resolved PTV. Experiments in Fluids, 2011, 50, 813-823.   | 2.4  | 14        |
| 11 | Near-Wall Motion of Caged Fluorescent Dye in Microchannel Flows Obtained from Evanescent Wave Molecular Tagging. Journal of Fluid Science and Technology, 2010, 5, 192-206.   | 0.6  | 5         |
| 12 | Time-Series Velocity Measurements of Electroosmotic Flows with Nonuniform Zeta-Potential Using Evanescent Wave and Volume Illumination(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 1455-1463. | 0.2  | 1         |
| 13 | Refractive index difference sensing illuminated by evanescent wave for noninvasive diagnosis of cell's pathological state. , 2010, , .  |      | 0         |
| 14 | Fluorescence imaging technique of surface electrostatic potential using evanescent wave illumination. Applied Physics Letters, 2009, 95, .  | 3.3  | 12        |
| 15 | Waterâ€vapor permeability control of PDMS by the dispersion of collagen powder. IEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 442-449.  | 1.4  | 34        |
| 16 | Phase Separation Technique for Suspended Particles in Microchannel Utilizing Bilayered Acoustic Fields. Journal of Fluid Science and Technology, 2009, 4, 1-12.   | 0.6  | 2         |
| 17 | Turbulence Structure of Bubbly Upward Pipe Flow : High Spatial and Temporal Resolution Measurements Using High Speed Time Series PTV(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 1446-1453.   | 0.2  | 4         |
| 18 | Measurement of Zeta-Potential at Microchannel Wall by a Nanoscale Laser Induced Fluorescence Imaging. Journal of Fluid Science and Technology, 2007, 2, 429-440.  | 0.6  | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Effect of Ion Motion on Zeta-Potential Distribution at Microchannel Wall Obtained from Nanoscale Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2007, 79, 6727-6733.   | 6.5 | 28        |
| 20 | Optically sliced measurement of velocity and pH distribution in microchannel. <i>Experiments in Fluids</i> , 2007, 43, 425-435.   | 2.4 | 28        |
| 21 | Measurement of Zeta-Potential at Microchannel Wall by a Nanoscale Laser Induced Fluorescence Imaging. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 2457-2464.           | 0.2 | 2         |
| 22 | Continuous Separation Technique of Suspended Particles by Utilizing Acoustic Radiation and Electrostatic Force. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 2473-2480. | 0.2 | 3         |
| 23 | Evaluation of Electroosmotic Velocity and Zeta-Potential in Microchannel Using Submicron Fluorescent Particles. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 2316-2323. | 0.2 | 6         |
| 24 | Transport Mechanisms of Turbulence Energy in Particle-Laden Channel Flow(PIV Measurements of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 1534-1541.                                   | 0.2 | 0         |
| 25 | Separation Technique of Sub-Micron Particles Using Electrokinetically Driven Flow. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 2378-2385.                              | 0.2 | 4         |