Hyung Jin Sung

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 365
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 ext. citations
 avg, IF
 L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 365 | Nanoforest of hydrothermally grown hierarchical ZnO nanowires for a high efficiency dye-sensitized solar cell. <i>Nano Letters</i> , 2011 , 11, 666-71 | 11.5 | 886 |
| 364 | Annealing-free, flexible silver nanowire-polymer composite electrodes via a continuous two-step spray-coating method. <i>Nanoscale</i> , 2013 , 5, 977-83 | 7.7 | 268 |
| 363 | Simulation of flexible filaments in a uniform flow by the immersed boundary method. <i>Journal of Computational Physics</i> , 2007 , 226, 2206-2228 | 4.1 | 236 |
| 362 | Highly Stretchable, Hysteresis-Free Ionic Liquid-Based Strain Sensor for Precise Human Motion Monitoring. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 1770-1780 | 9.5 | 225 |
| 361 | An implicit velocity decoupling procedure for the incompressible Navier Itokes equations. <i>International Journal for Numerical Methods in Fluids</i> , 2002 , 38, 125-138 | 1.9 | 220 |
| 360 | Recent advances in microfluidic actuation and micro-object manipulation via surface acoustic waves. <i>Lab on A Chip</i> , 2015 , 15, 2722-38 | 7.2 | 219 |
| 359 | Control of turbulent separated flow over a backward-facing step by local forcing. <i>Experiments in Fluids</i> , 1996 , 21, 417-426 | 2.5 | 192 |
| 358 | Continuous separation of particles in a PDMS microfluidic channel via travelling surface acoustic waves (TSAW). <i>Lab on A Chip</i> , 2013 , 13, 4210-6 | 7.2 | 142 |
| 357 | Dynamic mode decomposition of turbulent cavity flows for self-sustained oscillations. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 1098-1110 | 2.4 | 128 |
| 356 | Three-dimensional simulation of a flapping flag in a uniform flow. <i>Journal of Fluid Mechanics</i> , 2010 , 653, 301-336 | 3.7 | 124 |
| 355 | Very-large-scale motions in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2011 , 673, 80-120 | 3.7 | 118 |
| 354 | Flexible supercapacitor fabrication by room temperature rapid laser processing of roll-to-roll printed metal nanoparticle ink for wearable electronics application. <i>Journal of Power Sources</i> , 2014 , 246, 562-568 | 8.9 | 114 |
| 353 | An immersed boundary method for fluidflexible structure interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 2650-2661 | 5.7 | 109 |
| 352 | Drag Reduction by Spanwise Wall Oscillation in Wall-Bounded Turbulent Flows. <i>AIAA Journal</i> , 2002 , 40, 842-850 | 2.1 | 108 |
| 351 | Microchannel anechoic corner for size-selective separation and medium exchange via traveling surface acoustic waves. <i>Analytical Chemistry</i> , 2015 , 87, 4627-32 | 7.8 | 100 |
| 350 | Effects of channel geometrical configuration and shoulder width on PEMFC performance at high current density. <i>Journal of Power Sources</i> , 2006 , 162, 327-339 | 8.9 | 100 |
| 349 | Numerical simulation of the flow behind a rotary oscillating circular cylinder. <i>Physics of Fluids</i> , 1998 , 10, 869-876 | 4.4 | 99 |

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| 348 | Acoustofluidic particle manipulation inside a sessile droplet: four distinct regimes of particle concentration. <i>Lab on A Chip</i> , 2016 , 16, 660-7 | 7.2 | 98 | |
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| 347 | Two-fluid mixing in a microchannel. International Journal of Heat and Fluid Flow, 2004, 25, 986-995 | 2.4 | 98 | |
| 346 | Multiple-arrayed pressure measurement for investigation of the unsteady flow structure of a reattaching shear layer. <i>Journal of Fluid Mechanics</i> , 2002 , 463, 377-402 | 3.7 | 92 | |
| 345 | Submicron separation of microspheres via travelling surface acoustic waves. <i>Lab on A Chip</i> , 2014 , 14, 4665-72 | 7.2 | 90 | |
| 344 | Assessment of regularized delta functions and feedback forcing schemes for an immersed boundary method. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 58, 263-286 | 1.9 | 89 | |
| 343 | Direct numerical simulation of the turbulent boundary layer over a rod-roughened wall. <i>Journal of Fluid Mechanics</i> , 2007 , 584, 125-146 | 3.7 | 88 | |
| 342 | Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11435-11441 | 3.8 | 84 | |
| 341 | Direct numerical simulation of the turbulent boundary layer over a cube-roughened wall. <i>Journal of Fluid Mechanics</i> , 2011 , 669, 397-431 | 3.7 | 84 | |
| 340 | Constructive and destructive interaction modes between two tandem flexible flags in viscous flow. <i>Journal of Fluid Mechanics</i> , 2010 , 661, 511-521 | 3.7 | 84 | |
| 339 | Characteristics of wall pressure fluctuations in separated and reattaching flows over a backward-facing step: Part I. Time-mean statistics and cross-spectral analyses. <i>Experiments in Fluids</i> , 2001 , 30, 262-272 | 2.5 | 84 | |
| 338 | Karhunen∐o⊠e expansion of Burgers⊡model of turbulence. <i>Physics of Fluids</i> , 1988 , 31, 2573-2582 | | 83 | |
| 337 | Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. <i>Advanced Functional Materials</i> , 2013 , 23, 3316-3323 | 15.6 | 80 | |
| 336 | Direct numerical simulation of turbulent concentric annular pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 2002 , 23, 426-440 | 2.4 | 80 | |
| 335 | Effect of wall heating on turbulent boundary layers with temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 2013 , 726, 196-225 | 3.7 | 73 | |
| 334 | Adjustable, rapidly switching microfluidic gradient generation using focused travelling surface acoustic waves. <i>Applied Physics Letters</i> , 2014 , 104, 023506 | 3.4 | 72 | |
| 333 | Liquid transfer between two separating plates for micro-gravure-offset printing. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 015025 | 2 | 72 | |
| 332 | On-demand droplet splitting using surface acoustic waves. <i>Lab on A Chip</i> , 2016 , 16, 3235-43 | 7.2 | 71 | |
| 331 | Cross-type optical particle separation in a microchannel. <i>Analytical Chemistry</i> , 2008 , 80, 2628-30 | 7.8 | 70 | |
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| 330 | Flapping dynamics of an inverted flag in a uniform flow. Journal of Fluids and Structures, 2015, 57, 159-1 | 69 1 | 69 |
|-----|---|-------------|----|
| 329 | Effects of an adverse pressure gradient on a turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 568-578 | 2.4 | 69 |
| 328 | Structures in turbulent boundary layers subjected to adverse pressure gradients. <i>Journal of Fluid Mechanics</i> , 2009 , 639, 101-131 | 3.7 | 67 |
| 327 | Direct numerical simulation of a 30R long turbulent pipe flow at Re 3008. <i>Physics of Fluids</i> , 2015 , 27, 065110 | 4.4 | 66 |
| 326 | A nonlinear low-Reynolds-number thmodel for turbulent separated and reattaching flows Flow field computations. <i>International Journal of Heat and Mass Transfer</i> , 1995 , 38, 2657-2666 | 4.9 | 65 |
| 325 | Three-dimensional simulation of elastic capsules in shear flow by the penalty immersed boundary method. <i>Journal of Computational Physics</i> , 2012 , 231, 3340-3364 | 4.1 | 63 |
| 324 | Analysis of the Nusselt number in pulsating pipe flow. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 2486-2489 | 4.9 | 63 |
| 323 | Development of an array of pressure sensors with PVDF film. Experiments in Fluids, 1999, 26, 27-35 | 2.5 | 63 |
| 322 | Forced convection from an isolated heat source in a channel with porous medium. <i>International Journal of Heat and Fluid Flow</i> , 1995 , 16, 527-535 | 2.4 | 63 |
| 321 | Spatial organization of large- and very-large-scale motions in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2014 , 749, 818-840 | 3.7 | 62 |
| 320 | Simulation of liquid transfer between separating walls for modeling micro-gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 1436-1446 | 2.4 | 59 |
| 319 | Pulsating flow and heat transfer in a pipe partially filled with a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 4209-4218 | 4.9 | 57 |
| 318 | Development of a near-wall turbulence model and application to jet impingement heat transfer. <i>International Journal of Heat and Fluid Flow</i> , 2001 , 22, 10-18 | 2.4 | 55 |
| 317 | Acoustothermal heating of polydimethylsiloxane microfluidic system. <i>Scientific Reports</i> , 2015 , 5, 11851 | 4.9 | 54 |
| 316 | Experimental Investigation of Uniform-Shear Flow Past a Circular Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1992 , 114, 457-460 | 2.1 | 54 |
| 315 | Mixed convection from multiple-layered boards with cross-streamwise periodic boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 1992 , 35, 2941-2952 | 4.9 | 54 |
| 314 | Comparison of very-large-scale motions of turbulent pipe and boundary layer simulations. <i>Physics of Fluids</i> , 2013 , 25, 045103 | 4.4 | 52 |
| 313 | InnerButer interactions of large-scale structures in turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2016 , 790, 128-157 | 3.7 | 52 |

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| 312 | Wall-attached structures of velocity fluctuations in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2018 , 856, 958-983 | 3.7 | 50 | |
|-----|--|------------------------------|----|--|
| 311 | Visualization of a locally-forced separated flow over a backward-facing step. <i>Experiments in Fluids</i> , 1998 , 25, 133-142 | 2.5 | 49 | |
| 310 | An improved penalty immersed boundary method for fluidflexible body interaction. <i>Journal of Computational Physics</i> , 2011 , 230, 5061-5079 | 4.1 | 48 | |
| 309 | Vortex shedding from a circular cylinder near a moving wall. <i>Journal of Fluids and Structures</i> , 2007 , 23, 1064-1076 | 3.1 | 46 | |
| 308 | Assessment of the organization of a turbulent separated and reattaching flow by measuring wall pressure fluctuations. <i>Experiments in Fluids</i> , 2005 , 38, 485-493 | 2.5 | 44 | |
| 307 | Quasi-periodicity in the wake of a rotationally oscillating cylinder. <i>Journal of Fluid Mechanics</i> , 2000 , 408, 275-300 | 3.7 | 43 | |
| 306 | Lamb Wave-Based Acoustic Radiation Force-Driven Particle Ring Formation Inside a Sessile Droplet. <i>Analytical Chemistry</i> , 2016 , 88, 3976-81 | 7.8 | 43 | |
| 305 | Hydrodynamics of flexible fins propelled in tandem, diagonal, triangular and diamond configurations. <i>Journal of Fluid Mechanics</i> , 2018 , 840, 154-189 | 3.7 | 42 | |
| 304 | Interaction modes of multiple flexible flags in a uniform flow. Journal of Fluid Mechanics, 2013, 729, 56 | 3- <u>5</u> . 8 3 | 42 | |
| 303 | Particle Separation inside a Sessile Droplet with Variable Contact Angle Using Surface Acoustic Waves. <i>Analytical Chemistry</i> , 2017 , 89, 736-744 | 7.8 | 41 | |
| 302 | Effect of GDL permeability on water and thermal management in PEMFCsII. Clamping force. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 3786-3800 | 6.7 | 41 | |
| 301 | Unsteady separated and reattaching turbulent flow over a two-dimensional square rib. <i>Journal of Fluids and Structures</i> , 2008 , 24, 366-381 | 3.1 | 41 | |
| 300 | Enhancement of heat transfer by a self-oscillating inverted flag in a Poiseuille channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 96, 362-370 | 4.9 | 40 | |
| 299 | Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. <i>Nanoscale</i> , 2014 , 6, 2895-901 | 7.7 | 40 | |
| 298 | Signature of large-scale motions on turbulent/non-turbulent interface in boundary layers. <i>Journal of Fluid Mechanics</i> , 2017 , 819, 165-187 | 3.7 | 39 | |
| 297 | Comparative Study of Inflow Conditions for Spatially Evolving Simulation. AIAA Journal, 1997 , 35, 269-2 | 27 <u>4</u> 1 | 39 | |
| 296 | On-demand acoustic droplet splitting and steering in a disposable microfluidic chip. <i>Lab on A Chip</i> , 2018 , 18, 422-432 | 7.2 | 39 | |
| 295 | Effect of GDL permeability on water and thermal management in PEMFCsII Isotropic and anisotropic permeability. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 3767-3785 | 6.7 | 37 | |

| 294 | Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. <i>Nanoscale</i> , 2013 , 5, 3698-703 | 7.7 | 36 |
|-----|--|---------------|----|
| 293 | Enhancement by optical force of separation in pinched flow fractionation. <i>Lab on A Chip</i> , 2011 , 11, 354- | 77.2 | 36 |
| 292 | Acoustothermal tweezer for droplet sorting in a disposable microfluidic chip. <i>Lab on A Chip</i> , 2017 , 17, 1031-1040 | 7.2 | 35 |
| 291 | A dye-sensitized solar cell based on a boron-doped ZnO (BZO) film with double light-scattering-layers structured photoanode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5408 | 13 | 35 |
| 290 | Simulation of non-Newtonian ink transfer between two separating plates for gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 298-307 | 2.4 | 35 |
| 289 | Optimum geometrical design for improved fuel utilization in membraneless micro fuel cell. <i>Journal of Power Sources</i> , 2008 , 185, 143-152 | 8.9 | 35 |
| 288 | A further assessment of interpolation schemes for window deformation in PIV. <i>Experiments in Fluids</i> , 2006 , 41, 499-511 | 2.5 | 35 |
| 287 | Analysis of heat transfer in a pipe carrying two-phase gas-particle suspension. <i>International Journal of Heat and Mass Transfer</i> , 1991 , 34, 69-78 | 4.9 | 35 |
| 286 | Self-sustained oscillations of turbulent flows over an open cavity. Experiments in Fluids, 2008, 45, 693-70 | 0 2 .5 | 34 |
| 285 | Relationship between wall pressure fluctuations and streamwise vortices in a turbulent boundary layer. <i>Physics of Fluids</i> , 2002 , 14, 898-901 | 4.4 | 34 |
| 284 | In-droplet microparticle washing and enrichment using surface acoustic wave-driven acoustic radiation force. <i>Lab on A Chip</i> , 2018 , 18, 2936-2945 | 7.2 | 33 |
| 283 | Actively flapping tandem flexible flags in a viscous flow. <i>Journal of Fluid Mechanics</i> , 2015 , 780, 120-142 | 3.7 | 33 |
| 282 | Comparison of large- and very-large-scale motions in turbulent pipe and channel flows. <i>Physics of Fluids</i> , 2015 , 27, 025101 | 4.4 | 33 |
| 281 | An H-shaped design for membraneless micro fuel cells. <i>Electrochimica Acta</i> , 2009 , 54, 4416-4425 | 6.7 | 33 |
| 280 | Hydrodynamics of a self-propelled flexible fin near the ground. <i>Physics of Fluids</i> , 2017 , 29, 051902 | 4.4 | 32 |
| 279 | Hydrothermally grown upright-standing nanoporous nanosheets of iodine-doped ZnO (ZnO:I) nanocrystallites for a high-efficiency dye-sensitized solar cell. <i>ACS Applied Materials & Discrete Materials </i> | 9.5 | 32 |
| 278 | Direct numerical simulations of fully developed turbulent pipe flows for Re 180, 544 and 934. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 44, 222-228 | 2.4 | 31 |
| 277 | Effect of local forcing on a turbulent boundary layer. <i>Experiments in Fluids</i> , 2001 , 31, 384-393 | 2.5 | 31 |

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| 276 | Contribution of velocity-vorticity correlations to the frictional drag in wall-bounded turbulent flows. <i>Physics of Fluids</i> , 2016 , 28, 081702 | 4.4 | 31 | |
|-----|---|--------------|----|--|
| 275 | Optical separation of droplets on a microfluidic platform. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 635-6 | 544 8 | 30 | |
| 274 | Simulation of swimming oblate jellyfish with a paddling-based locomotion. <i>Journal of Fluid Mechanics</i> , 2014 , 748, 731-755 | 3.7 | 30 | |
| 273 | Micro PIV measurement of two-fluid flow with different refractive indices. <i>Measurement Science and Technology</i> , 2004 , 15, 1097-1103 | 2 | 30 | |
| 272 | Wall pressure fluctuations of a turbulent separated and reattaching flow affected by an unsteady wake. <i>Experiments in Fluids</i> , 2004 , 37, 531-546 | 2.5 | 30 | |
| 271 | On-Demand Droplet Capture and Release Using Microwell-Assisted Surface Acoustic Waves. <i>Analytical Chemistry</i> , 2017 , 89, 2211-2215 | 7.8 | 29 | |
| 270 | Continuous synthesis of zinc oxide nanoparticles in a microfluidic system for photovoltaic application. <i>Nanoscale</i> , 2014 , 6, 2840-6 | 7.7 | 29 | |
| 269 | Effects of unsteady blowing through a spanwise slot on a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2006 , 557, 423 | 3.7 | 29 | |
| 268 | Direct numerical simulation of turbulent concentric annular pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 2003 , 24, 399-411 | 2.4 | 29 | |
| 267 | Experimental study on mass transfer from a circular cylinder in pulsating flow. <i>International Journal of Heat and Mass Transfer</i> , 1994 , 37, 2203-2210 | 4.9 | 29 | |
| 266 | Influence of large-scale motions on the frictional drag in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2017 , 829, 751-779 | 3.7 | 28 | |
| 265 | Vertical Hydrodynamic Focusing and Continuous Acoustofluidic Separation of Particles via Upward Migration. <i>Advanced Science</i> , 2018 , 5, 1700285 | 13.6 | 28 | |
| 264 | Inertial migration of an elastic capsule in a Poiseuille flow. <i>Physical Review E</i> , 2011 , 83, 046321 | 2.4 | 28 | |
| 263 | Development of a nonlinear near-wall turbulence model for turbulent flow and heat transfer. <i>International Journal of Heat and Fluid Flow</i> , 2003 , 24, 29-40 | 2.4 | 28 | |
| 262 | Large-eddy simulation of turbulent flow in a concentric annulus with rotation of an inner cylinder. <i>International Journal of Heat and Fluid Flow</i> , 2005 , 26, 191-203 | 2.4 | 28 | |
| 261 | Transfer of Microparticles across Laminar Streams from Non-Newtonian to Newtonian Fluid. <i>Analytical Chemistry</i> , 2016 , 88, 4205-10 | 7.8 | 28 | |
| 260 | Acoustic impedance-based manipulation of elastic microspheres using travelling surface acoustic waves. <i>RSC Advances</i> , 2017 , 7, 22524-22530 | 3.7 | 27 | |
| 259 | Self-propelled heaving and pitching flexible fin in a quiescent flow. <i>International Journal of Heat and Fluid Flow</i> , 2016 , 62, 273-281 | 2.4 | 27 | |

| 258 | Permeability of microscale fibrous porous media using the lattice Boltzmann method. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 44, 435-443 | 2.4 | 27 |
|-----|---|----------------|----|
| 257 | Highly Conductive, Bendable, Embedded Ag Nanoparticle Wire Arrays Via Convective Self-Assembly: Hybridization into Ag Nanowire Transparent Conductors. <i>Advanced Functional Materials</i> , 2015 , 25, 3888-3898 | 15.6 | 27 |
| 256 | Response of a circular cylinder wake to superharmonic excitation. <i>Journal of Fluid Mechanics</i> , 2001 , 442, 67-88 | 3.7 | 27 |
| 255 | Sheathless Focusing and Separation of Microparticles Using Tilted-Angle Traveling Surface Acoustic Waves. <i>Analytical Chemistry</i> , 2018 , 90, 8546-8552 | 7.8 | 26 |
| 254 | Non-Newtonian ink transfer in gravureBffset printing. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 308-317 | 2.4 | 26 |
| 253 | Development of a microfluidic device for simultaneous mixing and pumping. <i>Experiments in Fluids</i> , 2009 , 46, 85-95 | 2.5 | 26 |
| 252 | Streak instability in turbulent channel flow: the seeding mechanism of large-scale motions. <i>Journal of Fluid Mechanics</i> , 2017 , 832, 483-513 | 3.7 | 25 |
| 251 | Dynamics of prolate jellyfish with a jet-based locomotion. <i>Journal of Fluids and Structures</i> , 2015 , 57, 331 | - <u>3</u> .43 | 25 |
| 250 | Travelling Surface Acoustic Waves Microfluidics. <i>Physics Procedia</i> , 2015 , 70, 34-37 | | 25 |
| 249 | Effects of background noise on generating coherent packets of hairpin vortices. <i>Physics of Fluids</i> , 2008 , 20, 105107 | 4.4 | 25 |
| 248 | Improvement of mass source/sink for an immersed boundary method. <i>International Journal for Numerical Methods in Fluids</i> , 2007 , 53, 1659-1671 | 1.9 | 25 |
| 247 | Modulation of Near-Wall Turbulence Structure with Wall Blowing and Suction. <i>AIAA Journal</i> , 2002 , 40, 1529-1535 | 2.1 | 25 |
| 246 | Local convective mass transfer on circular cylinder with transverse annular fins in crossflow. <i>International Journal of Heat and Mass Transfer</i> , 1996 , 39, 1093-1101 | 4.9 | 25 |
| 245 | Hydrodynamics of a three-dimensional self-propelled flexible plate. <i>Physics of Fluids</i> , 2019 , 31, 021902 | 4.4 | 24 |
| 244 | Turbulent boundary layers over sparsely-spaced rod-roughened walls. <i>International Journal of Heat and Fluid Flow</i> , 2015 , 56, 16-27 | 2.4 | 24 |
| 243 | Performance of H-shaped membraneless micro fuel cells. <i>Journal of Power Sources</i> , 2013 , 226, 266-271 | 8.9 | 24 |
| 242 | Effect of spanwise-varying local forcing on turbulent separated flow over a backward-facing step. <i>Experiments in Fluids</i> , 1999 , 26, 437-440 | 2.5 | 24 |
| 241 | Heat transfer enhancement by flexible flags clamped vertically in a Poiseuille channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 107, 391-402 | 4.9 | 23 |

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| 240 | Heat transfer enhancement by asymmetrically clamped flexible flags in a channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 1003-1015 | 4.9 | 23 | |
|-----|---|------|----|--|
| 239 | Effects of Periodic Blowing from Spanwise Slot on a Turbulent Boundary Layer. <i>AIAA Journal</i> , 2003 , 41, 1916-1924 | 2.1 | 23 | |
| 238 | Acoustic Wave-Driven Functionalized Particles for Aptamer-Based Target Biomolecule Separation. Analytical Chemistry, 2017 , 89, 13313-13319 | 7.8 | 22 | |
| 237 | A Pumpless Acoustofluidic Platform for Size-Selective Concentration and Separation of Microparticles. <i>Analytical Chemistry</i> , 2017 , 89, 13575-13581 | 7.8 | 22 | |
| 236 | PIV measurement of flow around an arbitrarily moving body. Experiments in Fluids, 2011, 50, 787-798 | 2.5 | 22 | |
| 235 | Direct numerical simulation of a turbulent boundary layer up to Re 2500. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 1-10 | 2.4 | 22 | |
| 234 | Three-dimensional microfluidic liquid-core/liquid-cladding waveguide. <i>Applied Physics Letters</i> , 2010 , 97, 021109 | 3.4 | 22 | |
| 233 | Flow Force Analysis of a Variable Force Solenoid Valve for Automatic Transmissions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2010 , 132, | 2.1 | 22 | |
| 232 | Large-scale structures of turbulent flows over an open cavity. <i>Journal of Fluids and Structures</i> , 2009 , 25, 1318-1333 | 3.1 | 22 | |
| 231 | Pumping and mixing in a microchannel using AC asymmetric electrode arrays. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 269-280 | 2.4 | 22 | |
| 230 | Initial Relaxation of Spatially Evolving Turbulent Channel Flow with Blowing and Suction. <i>AIAA Journal</i> , 2001 , 39, 2091-2099 | 2.1 | 22 | |
| 229 | Four-equation turbulence model for prediction of the turbulent boundary layer affected by buoyancy force over a flat plate. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 2387-2395 | 4.9 | 22 | |
| 228 | Flow Oscillations and Meniscus Fluctuations in a Funnel-Type Water Mold Model. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010 , 41, 121-130 | 2.5 | 21 | |
| 227 | A new low-Reynolds-numberk-?-f ^[] model for predictions involving multiple surfaces. <i>Fluid Dynamics Research</i> , 1997 , 20, 97-113 | 1.2 | 21 | |
| 226 | Wall pressure fluctuations and flow-induced noise in a turbulent boundary layer over a bump. <i>Journal of Fluid Mechanics</i> , 2006 , 558, 79 | 3.7 | 21 | |
| 225 | A nonlinear low-Reynolds-number k-Imodel for turbulent separated and reattaching flowsII. Thermal field computations. <i>International Journal of Heat and Mass Transfer</i> , 1996 , 39, 3465-3474 | 4.9 | 21 | |
| 224 | Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021 , 12, 5008 | 17.4 | 21 | |
| 223 | A dual-functional double-layer film with indium-doped ZnO nanosheets/nanoparticles structured photoanodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 25136 | 3.7 | 20 | |

| 222 | In-droplet microparticle separation using travelling surface acoustic wave. <i>Biomicrofluidics</i> , 2017 , 11, 064112 | 3.2 | 20 |
|-----|--|-----|----|
| 221 | Structure of the turbulent boundary layer over a rod-roughened wall. <i>International Journal of Heat and Fluid Flow</i> , 2009 , 30, 1087-1098 | 2.4 | 20 |
| 220 | Characteristics of wall pressure fluctuations in separated flows over a backward-facing step: Part II. Unsteady wavelet analysis. <i>Experiments in Fluids</i> , 2001 , 30, 273-282 | 2.5 | 20 |
| 219 | Prediction of transient oscillating flow in Czochralski convection. <i>International Journal of Heat and Mass Transfer</i> , 1995 , 38, 1627-1636 | 4.9 | 20 |
| 218 | Large-scale motions in a turbulent channel flow with the slip boundary condition. <i>International Journal of Heat and Fluid Flow</i> , 2016 , 61, 96-107 | 2.4 | 20 |
| 217 | Surface acoustic wave-based micromixing enhancement using a single interdigital transducer. <i>Applied Physics Letters</i> , 2019 , 114, 043702 | 3.4 | 19 |
| 216 | Generation of Dynamic Free-Form Temperature Gradients in a Disposable Microchip. <i>Analytical Chemistry</i> , 2015 , 87, 11568-74 | 7.8 | 19 |
| 215 | Flapping dynamics of inverted flags in a side-by-side arrangement. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 70, 131-140 | 2.4 | 19 |
| 214 | Direct Micro/Nano Patterning of Multiple Colored Quantum Dots by Large Area and Multilayer Imprinting. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11728-11733 | 3.8 | 19 |
| 213 | Dynamic fluidEtructure interaction of an elastic capsule in a viscous shear flow at moderate Reynolds number. <i>Journal of Fluids and Structures</i> , 2011 , 27, 438-455 | 3.1 | 19 |
| 212 | Wall Pressure Fluctuations in a Turbulent Boundary Layer After Blowing or Suction. <i>AIAA Journal</i> , 2003 , 41, 1697-1704 | 2.1 | 19 |
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