

# Hyung Jin Sung

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4631907/hyung-jin-sung-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

365  
papers

10,689  
citations

52  
h-index

85  
g-index

382  
ext. papers

12,284  
ext. citations

4  
avg, IF

6.77  
L-index

#	Paper	IF	Citations
365	Hydrodynamic benefits of pectoral fins in a self-propelled flexible plate. <i>Physics of Fluids</i> , <b>2022</b> , 34, 021909	4.4	3
364	Effects of aspect ratio on the hydrodynamics of a self-propelled flexible plate near the ground. <i>Physics of Fluids</i> , <b>2022</b> , 34, 021908	4.4	
363	Scaling of rough-wall turbulence in a transitionally rough regime. <i>Physics of Fluids</i> , <b>2022</b> , 34, 031701	4.4	0
362	Acoustofluidic Stimulation of Functional Immune Cells in a Microreactor.. <i>Advanced Science</i> , <b>2022</b> , e2105800	8.9	0
361	Acoustofluidic Stimulation of Functional Immune Cells in a Microreactor (Adv. Sci. 16/2022). <i>Advanced Science</i> , <b>2022</b> , 9, 2270102	13.6	
360	Hydrodynamic benefit of impulsive bursting in a self-propelled flexible plate. <i>Physics of Fluids</i> , <b>2021</b> , 33, 111904	4.4	1
359	Manipulation of cancer cells in a sessile droplet travelling surface acoustic waves. <i>Lab on A Chip</i> , <b>2021</b> ,	7.2	3
358	Wall-attached structures over a traveling wavy boundary: Scalar transport. <i>Physics of Fluids</i> , <b>2021</b> , 33, 105115	4.4	3
357	Wall-attached structures over a traveling wavy boundary: Turbulent velocity fluctuations. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	3
356	A self-propelled flexible plate with a keel-like structure. <i>Physics of Fluids</i> , <b>2021</b> , 33, 031902	4.4	5
355	Acoustofluidic Separation of Proteins Using Aptamer-Functionalized Microparticles. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8309-8317	7.8	1
354	Antibiotic susceptibility test under a linear concentration gradient using travelling surface acoustic waves. <i>Lab on A Chip</i> , <b>2021</b> , 21, 3449-3457	7.2	3
353	Depletion of lubricant impregnated in a cavity of lubricant-infused surface. <i>Physics of Fluids</i> , <b>2021</b> , 33, 022005	4.4	2
352	High-performance simulations of turbulent boundary layer flow using Intel Xeon Phi many-core processors. <i>Journal of Supercomputing</i> , <b>2021</b> , 77, 9597-9614	2.5	1
351	Hydrodynamic benefit of cephalic fins in a self-propelled flexible manta ray. <i>Physics of Fluids</i> , <b>2021</b> , 33, 081906	4.4	5
350	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> , <b>2021</b> , 12, 5008	17.4	21
349	Hydrodynamic benefits of protruding eyes and mouth in a self-propelled flexible stingray. <i>Physics of Fluids</i> , <b>2021</b> , 33, 081915	4.4	1

348	Drag reduction by a flexible afterbody. <i>Physics of Fluids</i> , <b>2021</b> , 33, 122009	4.4	2
347	Vertically clamped flexible flags in a Poiseuille flow. <i>Physics of Fluids</i> , <b>2020</b> , 32, 031902	4.4	1
346	The reduction of noise induced by flow over an open cavity. <i>International Journal of Heat and Fluid Flow</i> , <b>2020</b> , 82, 108560	2.4	1
345	A self-propelled flexible plate with a Navier slip surface. <i>Physics of Fluids</i> , <b>2020</b> , 32, 021906	4.4	5
344	Phase-mediated locomotion of two self-propelled flexible plates in a tandem arrangement. <i>Physics of Fluids</i> , <b>2020</b> , 32, 041901	4.4	11
343	Control of solutal Marangoni-driven vortical flows and enhancement of mixing efficiency. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 561, 408-415	9.3	17
342	Wall-attached structures of streamwise velocity fluctuations in an adverse-pressure-gradient turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 885,	3.7	13
341	Statistical behaviour of self-similar structures in canonical wall turbulence. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 905,	3.7	6
340	Acoustofluidic generation of droplets with tunable chemical concentrations. <i>Lab on A Chip</i> , <b>2020</b> , 20, 3922-3929	7.2	11
339	Flapping dynamics of vertically clamped three-dimensional flexible flags in a Poiseuille flow. <i>Physics of Fluids</i> , <b>2020</b> , 32, 071905	4.4	4
338	Specialization of tuna: A numerical study on the function of caudal keels. <i>Physics of Fluids</i> , <b>2020</b> , 32, 111902	4.4	13
337	Scaling of rough-wall turbulence by the roughness height and steepness. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 900,	3.7	2
336	The turbulent/non-turbulent interface in an adverse pressure gradient turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , <b>2020</b> , 86, 108704	2.4	1
335	Heat transfer enhancement in a poiseuille channel flow by using multiple wall-mounted flexible flags. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 163, 120447	4.9	4
334	A lubricant-infused slip surface for drag reduction. <i>Physics of Fluids</i> , <b>2020</b> , 32, 091901	4.4	13
333	Flapping dynamics of a flexible plate with Navier slip. <i>Physics of Fluids</i> , <b>2019</b> , 31, 091901	4.4	12
332	Hydrodynamics of a three-dimensional self-propelled flexible plate. <i>Physics of Fluids</i> , <b>2019</b> , 31, 021902	4.4	24
331	Investigation of DPD transport properties in modeling bioparticle motion under the effect of external forces: Low Reynolds number and high Schmidt scenarios. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 054901	3.9	5

330	Surface acoustic wave-based micromixing enhancement using a single interdigital transducer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 043702	3-4	19
329	Azimuthal organization of large-scale motions in a turbulent minimal pipe flow. <i>Physics of Fluids</i> , <b>2019</b> , 31, 055113	4-4	5
328	Wall-attached clusters for the logarithmic velocity law in turbulent pipe flow. <i>Physics of Fluids</i> , <b>2019</b> , 31, 055109	4-4	14
327	Microparticle self-assembly induced by travelling surface acoustic waves.. <i>RSC Advances</i> , <b>2019</b> , 9, 7916-7921	3-7	17
326	Design of the centrifugal fan of a belt-driven starter generator with reduced flow noise. <i>International Journal of Heat and Fluid Flow</i> , <b>2019</b> , 76, 72-84	2-4	6
325	Space-time formation of very-large-scale motions in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 881, 1010-1047	3-7	11
324	Acoustomicrofluidic separation of tardigrades from raw cultures for sample preparation. <i>Zoological Journal of the Linnean Society</i> , <b>2019</b> ,	2-4	2
323	The Scale Characteristics and Formation Mechanism of Aeolian Sand Streamers Based on Large Eddy Simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 11372-11388	4-4	17
322	Intermittent locomotion of a self-propelled plate. <i>Physics of Fluids</i> , <b>2019</b> , 31, 111902	4-4	9
321	Influence of wall-attached structures on the boundary of the quiescent core region in turbulent pipe flow. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2-8	4
320	Logarithmic Behavior of Wall-Attached Structures in Wall-Bounded Turbulent Flows. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 55-61	0-2	
319	Effects of the shape of an inverted flag on its flapping dynamics. <i>Physics of Fluids</i> , <b>2019</b> , 31, 021904	4-4	17
318	Undulatory topographical waves for flow-induced foulant sweeping. <i>Science Advances</i> , <b>2019</b> , 5, eaax8935	4-3	15
317	Characterization of microchannel anechoic corners formed by surface acoustic waves. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 083501	3-4	5
316	Flapping dynamics of inverted flags in a side-by-side arrangement. <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 70, 131-140	2-4	19
315	Schooling behavior of rigid and flexible heaving airfoils. <i>International Journal of Heat and Fluid Flow</i> , <b>2018</b> , 69, 224-233	2-4	5
314	Microfluidic flow switching localized acoustic streaming controlled by surface acoustic waves.. <i>RSC Advances</i> , <b>2018</b> , 8, 3206-3212	3-7	9
313	Hydrodynamics of flexible fins propelled in tandem, diagonal, triangular and diamond configurations. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 840, 154-189	3-7	42

312	Vertical Hydrodynamic Focusing and Continuous Acoustofluidic Separation of Particles via Upward Migration. <i>Advanced Science</i> , <b>2018</b> , 5, 1700285	13.6	28
311	Hydrodynamics of a self-propelled flexible fin in perturbed flows. <i>Mechanical Engineering Reviews</i> , <b>2018</b> , 5, 17-00286-17-00286	4.7	8
310	Heat transfer enhancement by asymmetrically clamped flexible flags in a channel flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 116, 1003-1015	4.9	23
309	Design of the Solenoid Valve of an Antilock Braking System With Reduced Flow Noise. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	2.1	2
308	Spontaneous Additive Nanopatterning from Solution Route Using Selective Wetting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26501-26509	9.5	7
307	In-droplet microparticle washing and enrichment using surface acoustic wave-driven acoustic radiation force. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2936-2945	7.2	33
306	Contribution of large-scale motions to the skin friction in a moderate adverse pressure gradient turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 848, 288-311	3.7	13
305	Influence of backflow on skin friction in turbulent pipe flow. <i>Physics of Fluids</i> , <b>2018</b> , 30, 065104	4.4	11
304	Sheathless Focusing and Separation of Microparticles Using Tilted-Angle Traveling Surface Acoustic Waves. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8546-8552	7.8	26
303	On-demand acoustic droplet splitting and steering in a disposable microfluidic chip. <i>Lab on A Chip</i> , <b>2018</b> , 18, 422-432	7.2	39
302	Wall-attached structures of velocity fluctuations in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 856, 958-983	3.7	50
301	On-Demand Droplet Capture and Release Using Microwell-Assisted Surface Acoustic Waves. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2211-2215	7.8	29
300	Acoustothermal tweezer for droplet sorting in a disposable microfluidic chip. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1031-1040	7.2	35
299	The isothermal-fluidic field of a secondary moderator jet in a $\frac{1}{4}$ scale CANDU-6 reactor model. <i>Nuclear Engineering and Design</i> , <b>2017</b> , 323, 394-406	1.8	1
298	Signature of large-scale motions on turbulent/non-turbulent interface in boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 819, 165-187	3.7	39
297	Heat transfer enhancement by flexible flags clamped vertically in a Poiseuille channel flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 107, 391-402	4.9	23
296	Influence of a large-eddy breakup device on the frictional drag in a turbulent boundary layer. <i>Physics of Fluids</i> , <b>2017</b> , 29, 065103	4.4	16
295	Deterministic bead-in-droplet ejection utilizing an integrated plug-in bead dispenser for single bead-based applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 46260	4.9	6

294	Acoustic impedance-based manipulation of elastic microspheres using travelling surface acoustic waves. <i>RSC Advances</i> , <b>2017</b> , 7, 22524-22530	3-7	27
293	Hydrodynamics of a self-propelled flexible fin near the ground. <i>Physics of Fluids</i> , <b>2017</b> , 29, 051902	4-4	32
292	Turbulent structures in an optimal Taylor-Couette flow between concentric counter-rotating cylinders. <i>Journal of Turbulence</i> , <b>2017</b> , 18, 480-496	2-1	6
291	Simulation of fluid-flexible body interaction with heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 110, 20-33	4-9	12
290	Cavitation instabilities of an inducer in a cryogenic pump. <i>Acta Astronautica</i> , <b>2017</b> , 132, 19-24	2-9	18
289	Highly Stretchable, Hysteresis-Free Ionic Liquid-Based Strain Sensor for Precise Human Motion Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1770-1780	9-5	225
288	Streak instability in turbulent channel flow: the seeding mechanism of large-scale motions. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 832, 483-513	3-7	25
287	An autonomous flexible propulsor in a quiescent flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2017</b> , 68, 151-157	2-4	7
286	Influence of large-scale motions on the frictional drag in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 829, 751-779	3-7	28
285	Comparison of Accuracy of One-Use Methods for Calculating Fractional Flow Reserve by Intravascular Optical Coherence Tomography to That Determined by the Pressure-Wire Method. <i>American Journal of Cardiology</i> , <b>2017</b> , 120, 1920-1925	3	7
284	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. <i>Scientific Reports</i> , <b>2017</b> , 7, 11220	4-9	14
283	Turbulent boundary layer over a divergent convergent superhydrophobic surface. <i>Physics of Fluids</i> , <b>2017</b> , 29, 085112	4-4	6
282	Acoustic Wave-Driven Functionalized Particles for Aptamer-Based Target Biomolecule Separation. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 13313-13319	7-8	22
281	A Pumpless Acoustofluidic Platform for Size-Selective Concentration and Separation of Microparticles. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 13575-13581	7-8	22
280	Contribution of large-scale motions to the Reynolds shear stress in turbulent pipe flows. <i>International Journal of Heat and Fluid Flow</i> , <b>2017</b> , 66, 209-216	2-4	11
279	Cavitation Instabilities During the Development Testing of a Liquid Oxygen Pump. <i>Journal of Propulsion and Power</i> , <b>2017</b> , 33, 187-192	1-8	9
278	Particle Separation inside a Sessile Droplet with Variable Contact Angle Using Surface Acoustic Waves. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 736-744	7-8	41
277	In-droplet microparticle separation using travelling surface acoustic wave. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 064112	3-2	20

276	Relationship between streamwise and azimuthal length scales in a turbulent pipe flow. <i>Physics of Fluids</i> , <b>2017</b> , 29, 105112	4.4	7
275	Direct patterning of ZnO thin film transistor using physical vapor jet printing. <i>Materials Letters</i> , <b>2016</b> , 163, 165-170	3.3	7
274	Structural organization of the quiescent core region in a turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 62, 455-463	2.4	6
273	On-demand droplet splitting using surface acoustic waves. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3235-43	7.2	71
272	Flow structure and flow-induced noise in an axisymmetric cavity with lids. <i>Journal of Mechanical Science and Technology</i> , <b>2016</b> , 30, 3229-3241	1.6	2
271	PIV measurements of the flow patterns in a CANDU-6 model. <i>Annals of Nuclear Energy</i> , <b>2016</b> , 98, 1-11	1.7	7
270	Self-propelled heaving and pitching flexible fin in a quiescent flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 62, 273-281	2.4	27
269	Flapping dynamics of a flexible propulsor near ground. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2016</b> , 32, 991-1000	2	17
268	Photosynthesis of cyanobacteria in a miniaturized optofluidic waveguide platform. <i>RSC Advances</i> , <b>2016</b> , 6, 11081-11087	3.7	5
267	Enhancement of heat transfer by a self-oscillating inverted flag in a Poiseuille channel flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 96, 362-370	4.9	40
266	Acoustofluidic particle manipulation inside a sessile droplet: four distinct regimes of particle concentration. <i>Lab on A Chip</i> , <b>2016</b> , 16, 660-7	7.2	98
265	Self-propelled flexible fin in the wake of a circular cylinder. <i>Physics of Fluids</i> , <b>2016</b> , 28, 111902	4.4	18
264	Contribution of velocity-vorticity correlations to the frictional drag in wall-bounded turbulent flows. <i>Physics of Fluids</i> , <b>2016</b> , 28, 081702	4.4	31
263	Influence of large-scale accelerating motions on turbulent pipe and channel flows. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 804, 420-441	3.7	17
262	Lamb Wave-Based Acoustic Radiation Force-Driven Particle Ring Formation Inside a Sessile Droplet. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3976-81	7.8	43
261	Large-scale motions in a turbulent channel flow with the slip boundary condition. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 61, 96-107	2.4	20
260	Vortex interaction between two tandem flexible propulsors with a paddling-based locomotion. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 793, 612-632	3.7	10
259	Inner-outer interactions of large-scale structures in turbulent channel flow. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 790, 128-157	3.7	52

258	Transfer of Microparticles across Laminar Streams from Non-Newtonian to Newtonian Fluid. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4205-10	7.8	28
257	Spatiotemporally controllable acoustothermal heating and its application to disposable thermochromic displays. <i>RSC Advances</i> , <b>2016</b> , 6, 33937-33944	3.7	17
256	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10937-45	9.5	18
255	High frequency travelling surface acoustic waves for microparticle separation. <i>Journal of Mechanical Science and Technology</i> , <b>2016</b> , 30, 3945-3952	1.6	10
254	In situ seriate droplet coalescence under an optical force. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 1247-1254	12.4	17
253	Flapping dynamics of an inverted flag in a uniform flow. <i>Journal of Fluids and Structures</i> , <b>2015</b> , 57, 159-169	16.1	69
252	Acoustothermal heating of polydimethylsiloxane microfluidic system. <i>Scientific Reports</i> , <b>2015</b> , 5, 11851	4.9	54
251	Dynamics of prolate jellyfish with a jet-based locomotion. <i>Journal of Fluids and Structures</i> , <b>2015</b> , 57, 331-343	3.43	25
250	Turbulent boundary layers over sparsely-spaced rod-roughened walls. <i>International Journal of Heat and Fluid Flow</i> , <b>2015</b> , 56, 16-27	2.4	24
249	Recent advances in microfluidic actuation and micro-object manipulation via surface acoustic waves. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2722-38	7.2	219
248	Microchannel anechoic corner for size-selective separation and medium exchange via traveling surface acoustic waves. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4627-32	7.8	100
247	PIV measurements of flow around an arbitrarily moving free surface. <i>Experiments in Fluids</i> , <b>2015</b> , 56, 1	2.5	18
246	Tomo-PIV measurement of flow around an arbitrarily moving body with surface reconstruction. <i>Experiments in Fluids</i> , <b>2015</b> , 56, 1	2.5	3
245	Model for tracing the path of microparticles in continuous flow microfluidic devices for 2D focusing via standing acoustic waves. <i>Separation and Purification Technology</i> , <b>2015</b> , 153, 99-107	8.3	16
244	Generation of Dynamic Free-Form Temperature Gradients in a Disposable Microchip. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 11568-74	7.8	19
243	Seriate microfluidic droplet coalescence under optical forces in a channel flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2015</b> , 56, 324-334	2.4	3
242	Cross-type optical separation of elastic oblate capsules in a uniform flow. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 034701	2.5	3
241	Inertial migration of a 3D elastic capsule in a plane Poiseuille flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2015</b> , 54, 87-96	2.4	12



240	Photoinduced synthesis of Ag nanoparticles on ZnO nanowires for real-time SERS systems. <i>RSC Advances</i> , <b>2015</b> , 5, 51-57	3.7	15
239	Actively flapping tandem flexible flags in a viscous flow. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 780, 120-142	3.7	33
238	Travelling Surface Acoustic Waves Microfluidics. <i>Physics Procedia</i> , <b>2015</b> , 70, 34-37		25
237	Dynamic manipulation of particles via transformative optofluidic waveguides. <i>Scientific Reports</i> , <b>2015</b> , 5, 15170	4.9	4
236	Direct numerical simulation of a 30R long turbulent pipe flow at $Re_{\tau} \approx 3008$ . <i>Physics of Fluids</i> , <b>2015</b> , 27, 065110	4.4	66
235	Migration of Elastic Capsules by an Optical Force in a Uniform flow. <i>Procedia IUTAM</i> , <b>2015</b> , 16, 50-59		1
234	Microchannel Anechoic Corner for Microparticle Manipulation via Travelling Surface Acoustic Waves. <i>Physics Procedia</i> , <b>2015</b> , 70, 30-33		5
233	Highly Conductive, Bendable, Embedded Ag Nanoparticle Wire Arrays Via Convective Self-Assembly: Hybridization into Ag Nanowire Transparent Conductors. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3888-3898	15.6	27
232	Effect of printing parameters on gravure patterning with conductive silver ink. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 045004	2	14
231	Comparison of large- and very-large-scale motions in turbulent pipe and channel flows. <i>Physics of Fluids</i> , <b>2015</b> , 27, 025101	4.4	33
230	Integrated real-time optofluidic SERS via a liquid-core/liquid-cladding waveguide. <i>RSC Advances</i> , <b>2015</b> , 5, 922-927	3.7	11
229	Three-dimensional hydrodynamic flow and particle focusing using four vortices Dean flow. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 17, 647-655	2.8	16
228	Optical separation of droplets on a microfluidic platform. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 635-644	4.8	30
227	Continuous synthesis of zinc oxide nanoparticles in a microfluidic system for photovoltaic application. <i>Nanoscale</i> , <b>2014</b> , 6, 2840-6	7.7	29
226	Simulation of swimming oblate jellyfish with a paddling-based locomotion. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 748, 731-755	3.7	30
225	Tomographic PIV measurements of flow patterns in a nasal cavity with geometry acquisition. <i>Experiments in Fluids</i> , <b>2014</b> , 55, 1	2.5	11
224	Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. <i>Nanoscale</i> , <b>2014</b> , 6, 2895-901	7.7	40
223	Optical separation of ellipsoidal particles in a uniform flow. <i>Physics of Fluids</i> , <b>2014</b> , 26, 062001	4.4	7

222	Effect of a shielded slot on a planar solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 12913-12923	6.7	3
221	Submicron separation of microspheres via travelling surface acoustic waves. <i>Lab on A Chip</i> , <b>2014</b> , 14, 4665-72	7.2	90
220	Flapping dynamics of a flexible flag in a uniform flow. <i>Fluid Dynamics Research</i> , <b>2014</b> , 46, 055517	1.2	11
219	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> , <b>2014</b> , 246, 562-568	8.9	114
218	Breakup behavior of a molten metal jet. <i>International Journal of Heat and Fluid Flow</i> , <b>2014</b> , 50, 27-37	2.4	7
217	Lateral migration of a microdroplet under optical forces in a uniform flow. <i>Physics of Fluids</i> , <b>2014</b> , 26, 122001	4.4	2
216	Optofluidic debubbling via a negative optical gradient force. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 071908	3.4	1
215	Adjustable, rapidly switching microfluidic gradient generation using focused travelling surface acoustic waves. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 023506	3.4	72
214	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> , <b>2014</b> , 2, 5408	13	35
213	Spatial organization of large- and very-large-scale motions in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 749, 818-840	3.7	62
212	Turbulent thermal boundary layers with temperature-dependent viscosity. <i>International Journal of Heat and Fluid Flow</i> , <b>2014</b> , 49, 43-52	2.4	8
211	Permeability of microscale fibrous porous media using the lattice Boltzmann method. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 44, 435-443	2.4	27
210	Nanowires: Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth (Adv. Funct. Mater. 26/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3315-3315	15.6	
209	Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3316-3323	15.6	80
208	Comparison of very-large-scale motions of turbulent pipe and boundary layer simulations. <i>Physics of Fluids</i> , <b>2013</b> , 25, 045103	4.4	52
207	Continuous separation of particles in a PDMS microfluidic channel via travelling surface acoustic waves (TSAW). <i>Lab on A Chip</i> , <b>2013</b> , 13, 4210-6	7.2	142
206	Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. <i>Nanoscale</i> , <b>2013</b> , 5, 3698-703	7.7	36
205	Spatiotemporal representation of the dynamic modes in turbulent cavity flows. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 44, 1-13	2.4	15

204	Multiphysics Analysis of a Linear Control Solenoid Valve. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2013</b> , 135,	2.1	12
203	Interaction modes of multiple flexible flags in a uniform flow. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 729, 563-583	3.7	42
202	Effect of wall heating on turbulent boundary layers with temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 726, 196-225	3.7	73
201	Direct numerical simulations of fully developed turbulent pipe flows for $Re_{\tau} = 180, 544$ and 934. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 44, 222-228	2.4	31
200	Vacuum-assisted microcontact printing ( $\mu$ CP) for aligned patterning of nano and biochemical materials. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 268-274	7.1	15
199	An atmospheric pressure-based electrospinning route to fabricate the multi-applications bilayer (AZO/ITO) TCO films. <i>RSC Advances</i> , <b>2013</b> , 3, 25741	3.7	10
198	A dual-functional double-layer film with indium-doped ZnO nanosheets/nanoparticles structured photoanodes for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2013</b> , 3, 25136	3.7	20
197	Performance of H-shaped membraneless micro fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 226, 266-271	8.9	24
196	Annealing-free, flexible silver nanowire-polymer composite electrodes via a continuous two-step spray-coating method. <i>Nanoscale</i> , <b>2013</b> , 5, 977-83	7.7	268
195	Statistics of the turbulent boundary layers over 3D cube-roughened walls. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 44, 394-402	2.4	11
194	Optical mobility of blood cells for label-free cell separation applications. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 141911	3.4	18
193	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 &amp; Interfaces</i> , <b>2013</b> , 5, 3075-84	9.5	32
192	Fabrication of tantalum and nitrogen codoped ZnO (Ta, N-ZnO) thin films using the electrospinning: twin applications as an excellent transparent electrode and a field emitter. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3722-30	9.5	10
191	Refractive-index-based optofluidic particle manipulation. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 073701	3.4	6
190	Pattern analysis of aligned nanowires in a microchannel. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 035303	2	4
189	Simulation of Valveless Pump Using Pumping Chamber Connected to Elastic Tube. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2013</b> , 37, 111-117	0.5	
188	Three-dimensional simulation of elastic capsules in shear flow by the penalty immersed boundary method. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 3340-3364	4.1	63
187	Lateral migration of an elastic capsule by optical force in a uniform flow. <i>Physical Review E</i> , <b>2012</b> , 86, 066306	2.4	8

186	Structures of turbulent open-channel flow in the presence of an air-water interface. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N18	2.1	6
185	Optofluidic particle manipulation in a liquid-core/liquid-cladding waveguide. <i>Optics Express</i> , <b>2012</b> , 20, 17348-58	3.3	13
184	Behavior of double emulsions in a cross-type optical separation system. <i>Langmuir</i> , <b>2012</b> , 28, 7343-9	4	4
183	Effect of carrier gas temperature on pentacene thin film formation by organic vapor-jet printing techniques. <i>Thermochimica Acta</i> , <b>2012</b> , 542, 74-79	2.9	2
182	Dynamics of an elastic capsule in moderate Reynolds number Poiseuille flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2012</b> , 36, 167-177	2.4	11
181	Simulation of a valveless pump with an elastic tube. <i>International Journal of Heat and Fluid Flow</i> , <b>2012</b> , 38, 13-23	2.4	8
180	Three-dimensional PIV measurement of flow around an arbitrarily moving body. <i>Experiments in Fluids</i> , <b>2012</b> , 53, 1057-1071	2.5	13
179	Simulation of flow-flexible body interactions with large deformation. <i>International Journal for Numerical Methods in Fluids</i> , <b>2012</b> , 70, 1089-1102	1.9	3
178	Direct Micro/Nano Patterning of Multiple Colored Quantum Dots by Large Area and Multilayer Imprinting. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11728-11733	3.8	19
177	Digital-mode organic vapor-jet printing (D-OVJP): advanced jet-on-demand control of organic thin-film deposition. <i>Advanced Materials</i> , <b>2012</b> , 24, 2857-62	2.4	14
176	Assessment of cross-type optical particle separation system. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 13, 9-17	2.8	6
175	Simulation of small swimmer motions driven by tail/flagellum beating. <i>Computers and Fluids</i> , <b>2012</b> , 55, 109-117	2.8	17
174	Characterization of a Microscale Cascade Impactor. <i>Aerosol Science and Technology</i> , <b>2012</b> , 46, 966-972	3.4	14
173	Radiation forces on a microsphere in an arbitrary refractive index profile. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 407	1.7	7
172	Optical levitation of a non-spherical particle in a loosely focused Gaussian beam. <i>Optics Express</i> , <b>2012</b> , 20, 24068-84	3.3	15
171	Optical force on a pair of concentric spheres in a focused laser beam: ray-optics regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 2531	1.7	3
170	Optical Trapping Forces on Non-Spherical Particles in Fluid Flows. <i>International Journal of Optomechatronics</i> , <b>2012</b> , 6, 146-162	3.5	1
169	Turbulent boundary layers over rod- and cube-roughened walls. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N40	2.1	14

168	Direct numerical simulations of turbulent flow in a conical diffuser. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N30	2.1	6
167	Flexible ring flapping in a uniform flow. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 707, 129-149	3.7	7
166	Nanoforest of hydrothermally grown hierarchical ZnO nanowires for a high efficiency dye-sensitized solar cell. <i>Nano Letters</i> , <b>2011</b> , 11, 666-71	11.5	886
165	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11435-11441	3.8	84
164	Enhancement by optical force of separation in pinched flow fractionation. <i>Lab on A Chip</i> , <b>2011</b> , 11, 354-77.2		36
163	Spatial features of the wall-normal structures in a turbulent boundary layer. <i>Journal of Turbulence</i> , <b>2011</b> , 12, N46	2.1	4
162	Wavelet spatial scaling for educing dynamic structures in turbulent open cavity flows. <i>Journal of Fluids and Structures</i> , <b>2011</b> , 27, 962-975	3.1	6
161	Dynamic mode decomposition of turbulent cavity flows for self-sustained oscillations. <i>International Journal of Heat and Fluid Flow</i> , <b>2011</b> , 32, 1098-1110	2.4	128
160	Very-large-scale motions in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 673, 80-120	3.7	118
159	Direct numerical simulation of the turbulent boundary layer over a cube-roughened wall. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 669, 397-431	3.7	84
158	PIV measurement of flow around an arbitrarily moving body. <i>Experiments in Fluids</i> , <b>2011</b> , 50, 787-798	2.5	22
157	Dynamic fluid-structure interaction of an elastic capsule in a viscous shear flow at moderate Reynolds number. <i>Journal of Fluids and Structures</i> , <b>2011</b> , 27, 438-455	3.1	19
156	Simulation of non-Newtonian ink transfer between two separating plates for gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , <b>2011</b> , 32, 298-307	2.4	35
155	Non-Newtonian ink transfer in gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , <b>2011</b> , 32, 308-317	2.4	26
154	Direct numerical simulation of a turbulent boundary layer up to $Re_{\tau} = 2500$ . <i>International Journal of Heat and Fluid Flow</i> , <b>2011</b> , 32, 1-10	2.4	22
153	An improved penalty immersed boundary method for fluid-flexible body interaction. <i>Journal of Computational Physics</i> , <b>2011</b> , 230, 5061-5079	4.1	48
152	Performance of sub-cooled PEMFCs. <i>International Journal of Energy Research</i> , <b>2011</b> , 35, 365-375	4.5	
151	Optical Forces on Non-Spherical Nanoparticles Trapped by Optical Waveguides. <i>International Journal of Optomechatronics</i> , <b>2011</b> , 5, 217-233	3.5	1

150	Simulation of an ac electro-osmotic pump with step microelectrodes. <i>Physical Review E</i> , <b>2011</b> , 83, 056302.4	2.4	1
149	Inertial migration of an elastic capsule in a Poiseuille flow. <i>Physical Review E</i> , <b>2011</b> , 83, 046321	2.4	28
148	Effects of an axisymmetric contraction on a turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 687, 376-403	3.7	16
147	Effect of hydrophobic microstructured surfaces on conductive ink printing. <i>Journal of Micromechanics and Microengineering</i> , <b>2011</b> , 21, 095026	2	7
146	Three-dimensional microfluidic liquid-core/liquid-cladding waveguide. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 021109	3.4	22
145	Self-Sustained Oscillations of Turbulent Flow in an Open Cavity. <i>Journal of Aircraft</i> , <b>2010</b> , 47, 820-834	1.6	18
144	Constructive and destructive interaction modes between two tandem flexible flags in viscous flow. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 661, 511-521	3.7	84
143	Flow Force Analysis of a Variable Force Solenoid Valve for Automatic Transmissions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	2.1	22
142	Coherent structures in turbulent boundary layers with adverse pressure gradients. <i>Journal of Turbulence</i> , <b>2010</b> , 11, N28	2.1	6
141	High-Performance Pentacene Thin-Film Transistors Fabricated by Organic Vapor-Jet Printing. <i>IEEE Electron Device Letters</i> , <b>2010</b> ,	4.4	4
140	Three-dimensional simulation of a flapping flag in a uniform flow. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 653, 301-336	3.7	124
139	On the wake with and without vortex shedding suppression behind a two-dimensional square cylinder in proximity to a plane wall. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2010</b> , 98, 492-503	3.7	15
138	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> , <b>2010</b> , 41, 121-130	2.5	21
137	The geometrical design of membraneless micro fuel cells: Failure and success. <i>International Journal of Energy Research</i> , <b>2010</b> , 34, 878-896	4.5	11
136	Effects of inflow pulsation on a turbulent coaxial jet. <i>International Journal of Heat and Fluid Flow</i> , <b>2010</b> , 31, 351-367	2.4	3
135	Three-dimensional simulation of a valveless pump. <i>International Journal of Heat and Fluid Flow</i> , <b>2010</b> , 31, 942-951	2.4	16
134	Direct Numerical Simulation and PIV Measurement of Turbulent Boundary Layer over a Rod-Roughened Wall. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2010</b> , 1-11	0.3	1
133	Nonlinear particle behavior during cross-type optical particle separation. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 264101	3.4	8

132	Feedback control of a circular cylinder wake with rotational oscillation. <i>Fluid Dynamics Research</i> , <b>2009</b> , 41, 011403	1.2	2
131	Structures in turbulent boundary layers subjected to adverse pressure gradients. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 639, 101-131	3.7	67
130	Effect of an Exit-Wedge Angle on Pinch-off and Mass Entrainment of Vortex Rings in Air. <i>Flow, Turbulence and Combustion</i> , <b>2009</b> , 82, 391-406	2.5	3
129	Propagation of orifice- and nozzle-generated vortex rings in air. <i>Journal of Visualization</i> , <b>2009</b> , 12, 139-156	6.6	11
128	Large-scale structures of turbulent flows over an open cavity. <i>Journal of Fluids and Structures</i> , <b>2009</b> , 25, 1318-1333	3.1	22
127	An H-shaped design for membraneless micro fuel cells. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 4416-4425	6.7	33
126	Development of a microfluidic device for simultaneous mixing and pumping. <i>Experiments in Fluids</i> , <b>2009</b> , 46, 85-95	2.5	26
125	Structure of the turbulent boundary layer over a rod-roughened wall. <i>International Journal of Heat and Fluid Flow</i> , <b>2009</b> , 30, 1087-1098	2.4	20
124	An immersed boundary method for fluid-flexible structure interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2009</b> , 198, 2650-2661	5.7	109
123	Nondimensional analysis of particle behavior during cross-type optical particle separation. <i>Applied Optics</i> , <b>2009</b> , 48, 4291-6	0.2	11
122	Liquid transfer between two separating plates for micro-gravure-offset printing. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 015025	2	72
121	Non-Newtonian effect on ink transfer for gravureoffset printing <b>2009</b> ,		1
120	Resolution of cross-type optical particle separation. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6023-8	7.8	10
119	Cross-type optical particle separation in a microchannel. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2628-30	7.8	70
118	Organized Self-Sustained Oscillations of Turbulent Flows over an Open Cavity. <i>AIAA Journal</i> , <b>2008</b> , 46, 2848-2856	2.1	18
117	Optical mobility in cross-type optical particle separation. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 044103	3.4	9
116	Effects of background noise on generating coherent packets of hairpin vortices. <i>Physics of Fluids</i> , <b>2008</b> , 20, 105107	4.4	25
115	Effects of an adverse pressure gradient on a turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 568-578	2.4	69

114	Effect of GDL permeability on water and thermal management in PEMFCs. Clamping force. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 3786-3800	6.7	41
113	Effect of GDL permeability on water and thermal management in PEMFCs. Isotropic and anisotropic permeability. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 3767-3785	6.7	37
112	Self-sustained oscillations of turbulent flows over an open cavity. <i>Experiments in Fluids</i> , <b>2008</b> , 45, 693-702.	5	34
111	Assessment of regularized delta functions and feedback forcing schemes for an immersed boundary method. <i>International Journal for Numerical Methods in Fluids</i> , <b>2008</b> , 58, 263-286	1.9	89
110	Optimum geometrical design for improved fuel utilization in membraneless micro fuel cell. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 143-152	8.9	35
109	Unsteady separated and reattaching turbulent flow over a two-dimensional square rib. <i>Journal of Fluids and Structures</i> , <b>2008</b> , 24, 366-381	3.1	41
108	Pumping and mixing in a microchannel using AC asymmetric electrode arrays. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 269-280	2.4	22
107	Simulation of liquid transfer between separating walls for modeling micro-gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 1436-1446	2.4	59
106	PIV measurements of turbulent boundary layer over a rod-roughened wall. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 1679-1687	2.4	18
105	Reactants flow behavior and water management for different current densities in PEMFC. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 2006-2019	4.9	17
104	Design of a deflected membrane electrode assembly for PEMFCs. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 5443-5453	4.9	13
103	Large-eddy simulation of turbulent mixed convection in a vertical annulus with a rotating inner cylinder. <i>Journal of Turbulence</i> , <b>2007</b> , 8, N5	2.1	1
102	Direct numerical simulation of the turbulent boundary layer over a rod-roughened wall. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 584, 125-146	3.7	88
101	Improvement of mass source/sink for an immersed boundary method. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 53, 1659-1671	1.9	25
100	Local current density and water management in PEMFCs. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 3376-3389	4.9	8
99	Multi-resolution analysis of the large-scale coherent structure in a turbulent separation bubble affected by an unsteady wake. <i>Journal of Fluids and Structures</i> , <b>2007</b> , 23, 85-100	3.1	4
98	Vortex shedding from a circular cylinder near a moving wall. <i>Journal of Fluids and Structures</i> , <b>2007</b> , 23, 1064-1076	3.1	46
97	Simulation of flexible filaments in a uniform flow by the immersed boundary method. <i>Journal of Computational Physics</i> , <b>2007</b> , 226, 2206-2228	4.1	236



96	Simultaneous mixing and pumping using asymmetric microelectrodes. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 074513	2.5	10
95	Multi-resolution Analysis of the Large-scale Coherent Structure in a Turbulent Separation Bubble Affected by Unsteady Wake <b>2007</b> , 113-116		
94	Characterization of the three-dimensional turbulent boundary layer in a concentric annulus with a rotating inner cylinder. <i>Physics of Fluids</i> , <b>2006</b> , 18, 115102	4.4	16
93	A wall-bounded turbulent mixing layer flow over an open step: I. Time-mean and spectral characteristics. <i>Journal of Turbulence</i> , <b>2006</b> , 7, N65	2.1	6
92	Wall Pressure Fluctuations in a Turbulent Boundary Layer over a Bump. <i>AIAA Journal</i> , <b>2006</b> , 44, 1393-1401	1.1	3
91	Wall pressure fluctuations and flow-induced noise in a turbulent boundary layer over a bump. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 558, 79	3.7	21
90	Effects of unsteady blowing through a spanwise slot on a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 557, 423	3.7	29
89	Breakdown of similarity between momentum and energy transfer in a stagnation-region with free-stream turbulence. <i>Progress in Computational Fluid Dynamics</i> , <b>2006</b> , 6, 21	0.7	1
88	Effects of local blowing from a slot on a laminar boundary layer. <i>Fluid Dynamics Research</i> , <b>2006</b> , 38, 539-549	1.4	3
87	Effects of channel geometrical configuration and shoulder width on PEMFC performance at high current density. <i>Journal of Power Sources</i> , <b>2006</b> , 162, 327-339	8.9	100
86	A further assessment of interpolation schemes for window deformation in PIV. <i>Experiments in Fluids</i> , <b>2006</b> , 41, 499-511	2.5	35
85	Response of a spatially developing turbulent boundary layer to a spanwise oscillating electromagnetic force. <i>Journal of Turbulence</i> , <b>2005</b> , 6, N39	2.1	10
84	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> , <b>2005</b> , 26, 191-203	2.4	28
83	Instability of streaky structure in a Blasius boundary layer. <i>Experiments in Fluids</i> , <b>2005</b> , 38, 363-371	2.5	12
82	Influence of local ultrasonic forcing on a turbulent boundary layer. <i>Experiments in Fluids</i> , <b>2005</b> , 39, 966-976	2.5	8
81	Assessment of the organization of a turbulent separated and reattaching flow by measuring wall pressure fluctuations. <i>Experiments in Fluids</i> , <b>2005</b> , 38, 485-493	2.5	44
80	Accuracy of correlation-based image registration for pressure-sensitive paint. <i>Experiments in Fluids</i> , <b>2005</b> , 39, 630-635	2.5	2
79	Tensorial time scale in turbulent gradient transport of Reynolds stresses. <i>Physics of Fluids</i> , <b>2005</b> , 17, 071701	1.1	4

78	Correlation-Based Image Registration for Applications Using Pressure-Sensitive Paint. <i>AIAA Journal</i> , <b>2005</b> , 43, 472-478	2.1	3
77	Micro PIV measurement of two-fluid flow with different refractive indices. <i>Measurement Science and Technology</i> , <b>2004</b> , 15, 1097-1103	2	30
76	Two-fluid mixing in a microchannel. <i>International Journal of Heat and Fluid Flow</i> , <b>2004</b> , 25, 986-995	2.4	98
75	Wall pressure fluctuations of a turbulent separated and reattaching flow affected by an unsteady wake. <i>Experiments in Fluids</i> , <b>2004</b> , 37, 531-546	2.5	30
74	A new flow controller for medical injection. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2004</b> , 36, 67-72	4.6	3
73	Wall Pressure Fluctuations in a Turbulent Boundary Layer After Blowing or Suction. <i>AIAA Journal</i> , <b>2003</b> , 41, 1697-1704	2.1	19
72	Identification and Control of Taylor-Görtler Vortices in Turbulent Curved Channel Flow. <i>AIAA Journal</i> , <b>2003</b> , 41, 2387-2393	2.1	2
71	Direct numerical simulation of stagnation region flow and heat transfer with free-stream turbulence. <i>Physics of Fluids</i> , <b>2003</b> , 15, 1462	4.4	8
70	Large-scale vortical structure of turbulent separation bubble affected by unsteady wake. <i>Experiments in Fluids</i> , <b>2003</b> , 34, 572-584	2.5	11
69	Measurement of local forcing on a turbulent boundary layer using PIV. <i>Experiments in Fluids</i> , <b>2003</b> , 34, 697-707	2.5	14
68	Development of a nonlinear near-wall turbulence model for turbulent flow and heat transfer. <i>International Journal of Heat and Fluid Flow</i> , <b>2003</b> , 24, 29-40	2.4	28
67	Direct numerical simulation of turbulent concentric annular pipe flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2003</b> , 24, 399-411	2.4	29
66	Effects of Periodic Blowing from Spanwise Slot on a Turbulent Boundary Layer. <i>AIAA Journal</i> , <b>2003</b> , 41, 1916-1924	2.1	23
65	An implicit velocity decoupling procedure for the incompressible Navier-Stokes equations. <i>International Journal for Numerical Methods in Fluids</i> , <b>2002</b> , 38, 125-138	1.9	220
64	Influence of unsteady wake on a turbulent separation bubble. <i>Experiments in Fluids</i> , <b>2002</b> , 32, 269-279	2.5	7
63	Suboptimal control for drag reduction in turbulent pipe flow. <i>Fluid Dynamics Research</i> , <b>2002</b> , 30, 217-231	1.2	8
62	Direct numerical simulation of turbulent concentric annular pipe flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2002</b> , 23, 426-440	2.4	80
61	Large-Scale Turbulent Vortical Structures inside a Sudden Expansion Cylinder Chamber. <i>Flow, Turbulence and Combustion</i> , <b>2002</b> , 68, 269-287	2.5	6

60	Assessment of suboptimal control for drag reduction in turbulent channel flow. <i>Journal of Turbulence</i> , <b>2002</b> , 3, N29	2.1	4
59	Modulation of Near-Wall Turbulence Structure with Wall Blowing and Suction. <i>AIAA Journal</i> , <b>2002</b> , 40, 1529-1535	2.1	25
58	Assessment of Local Blowing and Suction in a Turbulent Boundary Layer. <i>AIAA Journal</i> , <b>2002</b> , 40, 175-177	2.1	16
57	Relationship between wall pressure fluctuations and streamwise vortices in a turbulent boundary layer. <i>Physics of Fluids</i> , <b>2002</b> , 14, 898-901	4.4	34
56	Drag Reduction by Spanwise Wall Oscillation in Wall-Bounded Turbulent Flows. <i>AIAA Journal</i> , <b>2002</b> , 40, 842-850	2.1	108
55	Multiple-arrayed pressure measurement for investigation of the unsteady flow structure of a reattaching shear layer. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 463, 377-402	3.7	92
54	Large-eddy simulation of turbulent flow inside a sudden-expansion cylindrical chamber. <i>Journal of Turbulence</i> , <b>2002</b> , 3, N4	2.1	2
53	Breakdown of the Reynolds Analogy in a Stagnation Region Under Inflow Disturbances. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2001</b> , 14, 377-398	2.3	6
52	An experimental study of large-scale vortices over a blunt-faced flat plate in pulsating flow. <i>Experiments in Fluids</i> , <b>2001</b> , 30, 202-213	2.5	16
51	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> , <b>2001</b> , 30, 262-272	2.5	84
50	Characteristics of wall pressure fluctuations in separated flows over a backward-facing step: Part II. Unsteady wavelet analysis. <i>Experiments in Fluids</i> , <b>2001</b> , 30, 273-282	2.5	20
49	Effect of local forcing on a turbulent boundary layer. <i>Experiments in Fluids</i> , <b>2001</b> , 31, 384-393	2.5	31
48	Development of a near-wall turbulence model and application to jet impingement heat transfer. <i>International Journal of Heat and Fluid Flow</i> , <b>2001</b> , 22, 10-18	2.4	55
47	Numerical prediction of locally forced turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , <b>2001</b> , 22, 624-632	2.4	7
46	Initial Relaxation of Spatially Evolving Turbulent Channel Flow with Blowing and Suction. <i>AIAA Journal</i> , <b>2001</b> , 39, 2091-2099	2.1	22
45	Response of a circular cylinder wake to superharmonic excitation. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 442, 67-88	3.7	27
44	A nonlinear low-Reynolds number heat transfer model for turbulent separated and reattaching flows. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 1439-1448	4.9	11
43	Numerical prediction of locally forced turbulent separated and reattaching flow. <i>Fluid Dynamics Research</i> , <b>2000</b> , 26, 421-436	1.2	15

42	Visualizations of large-scale vortices in flow about a blunt-faced flat plate. <i>Experiments in Fluids</i> , <b>2000</b> , 29, 198-201	2.5	5
41	Quasi-periodicity in the wake of a rotationally oscillating cylinder. <i>Journal of Fluid Mechanics</i> , <b>2000</b> , 408, 275-300	3.7	43
40	Generation of Inflow Conditions in a Reynolds-Averaged Navier-Stokes Closure. <i>AIAA Journal</i> , <b>2000</b> , 38, 545-547	2.1	5
39	Technical Note Conjugate heat and mass transfer in metal hydride beds in the hydriding process. <i>International Journal of Heat and Mass Transfer</i> , <b>1999</b> , 42, 379-382	4.9	16
38	Development of an array of pressure sensors with PVDF film. <i>Experiments in Fluids</i> , <b>1999</b> , 26, 27-35	2.5	63
37	Effect of spanwise-varying local forcing on turbulent separated flow over a backward-facing step. <i>Experiments in Fluids</i> , <b>1999</b> , 26, 437-440	2.5	24
36	Flow and mass transfer measurements for a flat plate of finite thickness in pulsating flow. <i>International Journal of Heat and Mass Transfer</i> , <b>1998</b> , 41, 2827-2836	4.9	7
35	Visualization of a locally-forced separated flow over a backward-facing step. <i>Experiments in Fluids</i> , <b>1998</b> , 25, 133-142	2.5	49
34	Numerical simulation of the flow behind a rotary oscillating circular cylinder. <i>Physics of Fluids</i> , <b>1998</b> , 10, 869-876	4.4	99
33	Spatial simulation of the instability of channel flow with local suction/blowing. <i>Physics of Fluids</i> , <b>1997</b> , 9, 3258-3266	4.4	15
32	Comparative Study of Inflow Conditions for Spatially Evolving Simulation. <i>AIAA Journal</i> , <b>1997</b> , 35, 269-274	4.1	39
31	Transition flow modes in Czocharlski convection. <i>Journal of Crystal Growth</i> , <b>1997</b> , 180, 305-314	1.6	11
30	PULSATING FLOW AND HEAT TRANSFER IN AN ANNULUS PARTIALLY FILLED WITH POROUS MEDIA. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>1997</b> , 31, 517-527	2.3	11
29	A new low-Reynolds-number $k-\epsilon$ model for predictions involving multiple surfaces. <i>Fluid Dynamics Research</i> , <b>1997</b> , 20, 97-113	1.2	21
28	Large-scale structure of a leading-edge separation bubble with local forcing. <i>Fluid Dynamics Research</i> , <b>1997</b> , 19, 363-378	1.2	1
27	Application of a near-wall turbulence model to the flows over a step with inclined wall. <i>International Journal of Heat and Fluid Flow</i> , <b>1997</b> , 18, 209-217	2.4	15
26	A low-Reynolds-number, four-equation heat transfer model for turbulent separated and reattaching flows. <i>International Journal of Heat and Fluid Flow</i> , <b>1997</b> , 18, 38-44	2.4	7
25	Analysis of the Nusselt number in pulsating pipe flow. <i>International Journal of Heat and Mass Transfer</i> , <b>1997</b> , 40, 2486-2489	4.9	63

24	Pulsating flow and heat transfer in a pipe partially filled with a porous medium. <i>International Journal of Heat and Mass Transfer</i> , <b>1997</b> , 40, 4209-4218	4.9	57
23	Local convective mass transfer on circular cylinder with transverse annular fins in crossflow. <i>International Journal of Heat and Mass Transfer</i> , <b>1996</b> , 39, 1093-1101	4.9	25
22	A nonlinear low-Reynolds-number $k-\mu$ model for turbulent separated and reattaching flows. Thermal field computations. <i>International Journal of Heat and Mass Transfer</i> , <b>1996</b> , 39, 3465-3474	4.9	21
21	Mass transfer measurements from a blunt-faced flat plate in a uniform flow. <i>International Journal of Heat and Fluid Flow</i> , <b>1996</b> , 17, 179-182	2.4	8
20	Vortex simulation of leading-edge separation bubble with local forcing. <i>Fluid Dynamics Research</i> , <b>1996</b> , 18, 99-115	1.2	3
19	Control of turbulent separated flow over a backward-facing step by local forcing. <i>Experiments in Fluids</i> , <b>1996</b> , 21, 417-426	2.5	192
18	Forced convection from an isolated heat source in a channel with porous medium. <i>International Journal of Heat and Fluid Flow</i> , <b>1995</b> , 16, 527-535	2.4	63
17	Experimental Study of Uniform-Shear Flow Past a Rotating Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1995</b> , 117, 62-67	2.1	13
16	Prediction of two-dimensional momentumless wake by $k$ - $\epsilon$ - $\gamma$ model. <i>AIAA Journal</i> , <b>1995</b> , 33, 611-617	2.1	12
15	Prediction of transient oscillating flow in Czocharlski convection. <i>International Journal of Heat and Mass Transfer</i> , <b>1995</b> , 38, 1627-1636	4.9	20
14	A nonlinear low-Reynolds-number $k-\mu$ model for turbulent separated and reattaching flows. Flow field computations. <i>International Journal of Heat and Mass Transfer</i> , <b>1995</b> , 38, 2657-2666	4.9	65
13	Experimental study on mass transfer from a circular cylinder in pulsating flow. <i>International Journal of Heat and Mass Transfer</i> , <b>1994</b> , 37, 2203-2210	4.9	29
12	Assessment of turbulent spectral bias in laser Doppler velocimetry. <i>Experiments in Fluids</i> , <b>1994</b> , 16-16, 223-235	2.5	5
11	Discrete Vortex Simulation of Pulsating Flow Behind a Normal Plate. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1994</b> , 116, 862-869	2.1	2
10	Double-diffusive convection in a rotating annulus with horizontal temperature and vertical solutal gradients. <i>International Journal of Heat and Mass Transfer</i> , <b>1993</b> , 36, 3773-3782	4.9	12
9	Experimental Investigation of Uniform-Shear Flow Past a Circular Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1992</b> , 114, 457-460	2.1	54
8	Mixed convection from multiple-layered boards with cross-streamwise periodic boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>1992</b> , 35, 2941-2952	4.9	54
7	Convergence of Galerkin solutions using Karhunen-Loève expansions of inhomogeneous 1-D turbulence. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1991</b> , 3, 1695-1697		

6	Local mass transfer from a circular cylinder in a uniform shear flow. <i>International Journal of Heat and Mass Transfer</i> , <b>1991</b> , 34, 59-67	4.9	4
5	Analysis of heat transfer in a pipe carrying two-phase gas-particle suspension. <i>International Journal of Heat and Mass Transfer</i> , <b>1991</b> , 34, 69-78	4.9	35
4	Application of Lumley's Drag Reduction Model to Two-Phase Gas-Particle Flow in a Pipe. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1991</b> , 113, 130-136	2.1	5
3	Karhunen's expansion of Burgers' model of turbulence. <i>Physics of Fluids</i> , <b>1988</b> , 31, 2573-2582		83
2	Computational Study of Turbulent Gas-Particle Flow in a Venturi. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1986</b> , 108, 248-253	2.1	6
1	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> , <b>1984</b> , 27, 2387-2395	4.9	22