John Kim

List of Publications by Year in descending order

200 papers	24,698 citations	36203 51 h-index	24915 109 g-index
205 all docs	205 docs citations	205 times ranked	7746 citing authors

#	Article	IF	Citations
1	Superhydrophobic drag reduction in high-speed towing tank. Journal of Fluid Mechanics, 2021, 908, .	1.4	39
2	Navigator: Dynamic Multi-kernel Scheduling to Improve GPU Performance. , 2020, , .		4
3	Griffin: Hardware-Software Support for Efficient Page Migration in Multi-GPU Systems. , 2020, , .		19
4	Valkyrie. , 2020, , .		11
5	Bandwidth Bottleneck in Network-on-Chip for High-Throughput Processors. , 2020, , .		0
6	NeuMMU. , 2020, , .		20
7	MGPUSim. , 2019, , .		49
8	Predictions of the effective slip length and drag reduction with a lubricated micro-groove surface in a turbulent channel flow. Journal of Fluid Mechanics, 2019, 874, 797-820.	1.4	40
9	Ghost routers. , 2019, , .		0
10	Towards Interpersonal Assistants: Next-Generation Conversational Agents. IEEE Pervasive Computing, 2019, 18, 21-31.	1.1	19
11	DeepHiR. , 2019, , .		3
12	A Novel Covert Channel Attack Using Memory Encryption Engine Cache. , 2019, , .		3
13	A Case for Software-Based Adaptive Routing in NUMA Systems. , 2019, , .		2
14	Enforcing Last-Level Cache Partitioning through Memory Virtual Channels. , 2019, , .		3
15	Practical and efficient incremental adaptive routing for HyperX networks. , 2019, , .		9
16	Multi-dimensional Parallel Training of Winograd Layer on Memory-Centric Architecture. , 2018, , .		10
17	Profiling DNN Workloads on a Volta-based DGX-1 System. , 2018, , .		22
18	SuperSim: Extensible Flit-Level Simulation of Large-Scale Interconnection Networks. , 2018, , .		7

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19	BebeCODE. , 2018, , .		10
20	TCEP: Traffic Consolidation for Energy-Proportional High-Radix Networks. , 2018, , .		4
21	PlayBetter. , 2017, , .		2
22	Footprint. , 2017, , .		14
23	Evaluation of Performance Unfairness in NUMA System Architecture. IEEE Computer Architecture Letters, 2017, 16, 26-29.	1.0	7
24	History-Based Arbitration for Fairness in Processor-Interconnect of NUMA Servers. , 2017, , .		3
25	Itchtector. , 2017, , .		13
26	Adaptive and flexible key-value stores through soft data partitioning. , 2016, , .		2
27	UMH. Transactions on Architecture and Code Optimization, 2016, 13, 1-25.	1.6	16
28	Contention-based congestion management in large-scale networks. , 2016, , .		17
29	Automatically Exploiting Implicit Pipeline Parallelism from Multiple Dependent Kernels for GPUs. , 2016, , .		10
30	Large-scale motions in a turbulent channel flow with the slip boundary condition. International Journal of Heat and Fluid Flow, 2016, 61, 96-107.	1.1	21
31	iPAWS: Instruction-issue pattern-based adaptive warp scheduling for GPGPUs. , 2016, , .		19
32	Effects of the air layer of an idealized superhydrophobic surface on the slip length and skin-friction drag. Journal of Fluid Mechanics, 2016, 790, .	1.4	35
33	A high-order multi-zone cut-stencil method for numerical simulations of high-speed flows over complex geometries. Journal of Computational Physics, 2016, 316, 652-681.	1.9	5
34	Accelerating Linked-list Traversal Through Near-Data Processing. , 2016, , .		26
35	TalkLIME. , 2016, , .		18
36	The 2015 FranÃ§ois Naftali Frenkiel Award for Fluid Mechanics. Physics of Fluids, 2016, 28, 010201.	1.6	0

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37	Design and Analysis of Hybrid Flow Control for Hierarchical Ring Network-on-Chip. IEEE Transactions on Computers, 2016, 65, 480-494.	2.4	8
38	Optimal disturbances in the near-wall region of turbulent channel flows. Physical Review Fluids, 2016, 1, .	1.0	3
39	Effects of Robot and Computer-based Intervention on Learning Action Word Symbols of AAC for Children with Autism Spectrum Disorder. Communication Sciences and Disorders, 2016, 21, 744-759.	0.1	4
40	Overcoming far-end congestion in large-scale networks. , 2015, , .		43
41	Energy-Efficient Dynamic Packet Downloading for Medical IoT Platforms. IEEE Transactions on Industrial Informatics, 2015, 11, 1653-1659.	7.2	55
42	Controller Synthesis for Periodic, Linear-Distributed Parameter Systems: A Channel Flow Application. , 2015, , .		0
43	Controller Synthesis for Periodic, Linear-Distributed Parameter Systems: Channel Flow Application. Journal of Guidance, Control, and Dynamics, 2015, 38, 993-1000.	1.6	0
44	Lexical Representation of Emotions for High Functioning Autism(HFA) via Emotional Story Intervention using Smart Media. , 2015, , .		1
45	Mobile System Design for Scratch Recognition. , 2015, , .		9
46	Robot-based augmentative and alternative communication for nonverbal children with communication disorders. , 2014, , .		13
47	Multi-GPU System Design with Memory Networks. , 2014, , .		40
48	TalkBetter. , 2014, , .		46
49	Security Vulnerability in Processor-Interconnect Router Design. , 2014, , .		5
50	Microbank: Architecting Through-Silicon Interposer-Based Main Memory Systems. , 2014, , .		17
51	Low-Overhead Network-on-Chip Support for Location-Oblivious Task Placement. IEEE Transactions on Computers, 2014, 63, 1487-1500.	2.4	13
52	Announcement: Changes in the Editorial Organization of Physics of Fluids. Physics of Fluids, 2014, 26, 070201.	1.6	0
53	Extending bufferless on-chip networks to high-throughput workloads. , 2014, , .		8
54	Transportation-network-inspired network-on-chip. , 2014, , .		13

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55	Improving GPGPU resource utilization through alternative thread block scheduling. , 2014, , .		131
56	Mutually Aware Prefetcher and On-Chip Network Designs for Multi-Cores. IEEE Transactions on Computers, 2014, 63, 2316-2329.	2.4	4
57	Energy-efficient scheduling for memory-intensive GPGPU workloads. , 2014, , .		3
58	Galaxy. , 2014, , .		42
59	Numerical Simulation of High-Speed Flows Over Complex Geometries with a High-Order Multi-Zone Cut-Cell Method. , 2014, , .		1
60	LOX Framework: Designing Human Computation Games to Update Street Views. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 233-251.	0.2	2
61	A detailed and flexible cycle-accurate Network-on-Chip simulator. , 2013, , .		504
62	Clumsy Flow Control for High-Throughput Bufferless On-Chip Networks. IEEE Computer Architecture Letters, 2013, 12, 47-50.	1.0	22
63	A numerical study of the effects of superhydrophobic surface on skin-friction drag in turbulent channel flow. Physics of Fluids, 2013, 25, .	1.6	148
64	Preface to Special Topic: Directions in computational physicsâ€"Selected papers from a symposium honoring Parviz Moin upon his 60th birthday. Physics of Fluids, 2013, 25, 110701.	1.6	0
65	Memory-centric system interconnect design with Hybrid Memory Cubes. , 2013, , .		9
66	SpotMe effective co-optimization of design and defect inspection for fast yield ramp. , 2013, , .		2
67	Scalable high-radix router microarchitecture using a network switch organization. Transactions on Architecture and Code Optimization, 2013, 10, 1-25.	1.6	7
68	Scheduling in Heterogeneous Computing Environments for Proximity Queries. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1513-1525.	2.9	7
69	Designing on-chip networks for throughput accelerators. Transactions on Architecture and Code Optimization, 2013, 10, 1-35.	1.6	8
70	Announcement: New Format for Physics of Fluids. Physics of Fluids, 2012, 24, .	1.6	0
71	Reduced Balancing Transformations for Large Nonnormal State-Space Systems. Journal of Guidance, Control, and Dynamics, 2012, 35, 129-137.	1.6	9
72	Guest Editorial New Interconnect Technologies in On-Chip Communication. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2012, 2, 121-123.	2.7	0

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73	Exploiting New Interconnect Technologies in On-Chip Communication. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2012, 2, 124-136.	2.7	30
74	Providing cost-effective on-chip network bandwidth in GPGPUs. , 2012, , .		30
75	Scalable on-chip network in power constrained manycore processors. , 2012, , .		2
76	Network within a network approach to create a scalable high-radix router microarchitecture. , 2012, , .		19
77	Progress in pipe and channel flow turbulence, 1961â€“2011. Journal of Turbulence, 2012, 13, N45.	0.5	23
78	The 14th biennial Center for Turbulence Research Summer Program. Physics of Fluids, 2012, 24, 100501.	1.6	0
79	Leveraging torus topology with deadlock recovery for cost-efficient on-chip network. , 2011, , .		7
80	Numerical Study of Hypersonic Flow Over an Isolated Roughness with a High-Order Cut-Cell Method. , 2011, , .		5
81	An Alternative Memory Access Scheduling in Manycore Accelerators. , 2011, , .		5
82	Physics and control of wall turbulence for drag reduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1396-1411.	1.6	103
83	FeatherWeight. , 2011, , .		22
84	Exploiting Mutual Awareness between Prefetchers and On-chip Networks in Multi-cores. , 2011, , .		3
85	Near-wall dynamics of compressible boundary layers. Physics of Fluids, 2011, 23, .	1.6	18
86	High Performance Datacenter Networks: Architectures, Algorithms, and Opportunities. Synthesis Lectures on Computer Architecture, 2011, 6, 1-115.	1.3	22
87	A numerical study of compressible turbulent boundary layers. Physics of Fluids, 2011, 23, .	1.6	94
88	Announcement: New Format for Physics of Fluids. Physics of Fluids, 2011, 23, 120201.	1.6	0
89	State-Space Approximations of the Orr-Sommerfeld System with Boundary Inputs and Outputs. , 2010, , .		0
90	Efficient Topologies for Large-scale Cluster Networks. , 2010, , .		3

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91	A Hybrid-Filter Approach to Turbulence Simulation. Flow, Turbulence and Combustion, 2010, 85, 421-441.	1.4	32
92	On-Chip Network Evaluation Framework. , 2010, , .		9
93	State-Space Approximations of the Orr-Sommerfeld System with Boundary Inputs and Outputs. Journal of Guidance, Control, and Dynamics, 2010, 33, 794-802.	1.6	5
94	On-chip network design considerations for compute accelerators. , 2010, , .		4
95	Approximating age-based arbitration in on-chip networks. , 2010, , .		2
96	Probabilistic Distance-Based Arbitration: Providing Equality of Service for Many-Core CMPs. , 2010, , .		37
97	Numerical Study of Hypersonic Receptivity with Thermochemical Non-Equilibrium on a Blunt Cone. , 2010, , .		11
98	FlexiShare: Channel sharing for an energy-efficient nanophotonic crossbar. , 2010, , .		144
99	Throughput-Effective On-Chip Networks for Manycore Accelerators. , 2010, , .		111
100	Exploring concentration and channel slicing in on-chip network router. , 2009, , .		46
101	Router microarchitecture and scalability of ring topology in on-chip networks. , 2009, , .		32
102	HPCCD: Hybrid Parallel Continuous Collision Detection using CPUs and GPUs. Computer Graphics Forum, 2009, 28, 1791-1800.	1.8	57
103	Low-cost router microarchitecture for on-chip networks. , 2009, , .		127
104	A Numerical Study of Purdue's Mach 6 Tunnel with a Roughness Element. , 2009, , .		8
105	Indirect adaptive routing on large scale interconnection networks. , 2009, , .		79
106	Firefly. , 2009, , .		259
107	Analyzing the impact of on-chip network traffic on program phases for CMPs. , 2009, , .		5
108	Cost-Efficient Dragonfly Topology for Large-Scale Systems. IEEE Micro, 2009, 29, 33-40.	1.8	55

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109	Achieving predictable performance through better memory controller placement in many-core CMPs. , 2009, , .		105
110	Cost-Efficient Dragonfly Topology for Large-Scale Systems. , 2009, , .		7
111	Control and system identification of a separated flow. Physics of Fluids, 2008, 20, .	1.6	39
112	Technology-Driven, Highly-Scalable Dragonfly Topology. , 2008, , .		380
113	Stability of a channel flow subject to wall blowing and suction in the form of a traveling wave. Physics of Fluids, 2008, 20, .	1.6	34
114	Editorial: Fifty years of Physics of Fluids. Physics of Fluids, 2008, 20, .	1.6	1
115	Effect of roughness on pressure fluctuations in a turbulent channel flow. Physics of Fluids, 2007, 19, 028103.	1.6	20
116	Flattened butterfly. , 2007, , .		273
117	Flattened Butterfly Topology for On-Chip Networks. , 2007, , .		203
118	Flattened Butterfly Topology for On-Chip Networks. IEEE Computer Architecture Letters, 2007, 6, 37-40.	1.0	61
119	A Linear Systems Approach to Flow Control. Annual Review of Fluid Mechanics, 2007, 39, 383-417.	10.8	338
120	Sustained sub-laminar drag in a fully developed channel flow. Journal of Fluid Mechanics, 2006, 558, 309.	1.4	124
121	Interconnect routing and scheduling---Adaptive routing in high-radix clos network. , 2006, , .		37
122	Analysis and Control of Boundary Layers: A Linear System Perspective. Solid Mechanics and Its Applications, 2006, , 301-312.	0.1	0
123	Physics and Control of Wall Turbulence. , 2006, , 59-68.		0
124	Effects of hydrophobic surface on stability and transition. Physics of Fluids, 2005, 17, 108106.	1.6	77
125	A singular value analysis of boundary layer control. Physics of Fluids, 2004, 16, 1980-1988.	1.6	40
126	Effects of hydrophobic surface on skin-friction drag. Physics of Fluids, 2004, 16, L55-L58.	1.6	294

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127	Effect of Roughness on Wall-Bounded Turbulence. Flow, Turbulence and Combustion, 2004, 72, 463-492.	1.4	154
128	Direct numerical simulation of a decelerated wall-bounded turbulent shear flow. Journal of Fluid Mechanics, 2003, 495, 1-18.	1.4	27
129	Control of turbulent boundary layers. Physics of Fluids, 2003, 15, 1093-1105.	1.6	172
130	Control of the viscous sublayer for drag reduction. Physics of Fluids, 2002, 14, 2523.	1.6	55
131	Application of the Ggoore Scheme to turbulence control for drag reduction (I). Journal of Mechanical Science and Technology, 2001, 15, 1572-1579.	0.4	1
132	Application of the Goore Scheme to turbulence control for drag reduction (II). Journal of Mechanical Science and Technology, 2001, 15, 1580-1587.	0.4	1
133	Application of reduced-order controller to turbulent flows for drag reduction. Physics of Fluids, 2001, 13, 1321-1330.	1.6	79
134	A linear process in wall-bounded turbulent shear flows. Physics of Fluids, 2000, 12, 1885-1888.	1.6	113
135	A numerical study of strained three-dimensional wall-bounded turbulence. Journal of Fluid Mechanics, 2000, 416, 75-116.	1.4	43
136	Near-wall turbulence structures in three-dimensional boundary layers. International Journal of Heat and Fluid Flow, 2000, 21, 480-488.	1.1	24
137	Turbulent boundary layer control utilizing the Lorentz force. Physics of Fluids, 2000, 12, 631-649.	1.6	201
138	Finite Dimensional Optimal Control of Poiseuille Flow. Journal of Guidance, Control, and Dynamics, 1999, 22, 340-348.	1.6	49
139	Direct numerical simulation of turbulent channel flow up to Reï„=590. Physics of Fluids, 1999, 11, 943-945.	1.6	2,184
140	Active control of turbulent boundary layers for drag reduction. , 1999, , 142-152.		5
141	Active Control of Turbulent Boundary Layers for Drag Reduction. Fluid Mechanics and Its Applications, 1999, , 329-336.	0.1	1
142	Skin-friction Drag ReductionViaRobust Reduced-order Linear Feedback Control. International Journal of Computational Fluid Dynamics, 1998, 11, 79-92.	0.5	50
143	Control of streamwise vortices with uniform magnetic fluxes. Physics of Fluids, 1998, 10, 1997-2005.	1.6	19
144	Suboptimal control of turbulent channel flow for drag reduction. Journal of Fluid Mechanics, 1998, 358, 245-258.	1.4	184

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145	How streamwise rolls and streaks self-sustain in a shear flow. II. , 1998, , .		11
146	TAMING TURBULENCE. , 1998, , 907-913.		0
147	On the effects of nonequilibrium on the subgrid-scale stresses. Physics of Fluids, 1997, 9, 2740-2748.	1.6	18
148	Coherent structures near the wall in a turbulent channel flow. Journal of Fluid Mechanics, 1997, 332, 185-214.	1.4	565
149	A systems theory approach to the feedback stabilization of infinitesimal and finite-amplitude disturbances in plane Poiseuille flow. Journal of Fluid Mechanics, 1997, 332, 157-184.	1.4	190
150	Application of neural networks to turbulence control for drag reduction. Physics of Fluids, 1997, 9, 1740-1747.	1.6	258
151	Direct numerical simulation of turbulent flow over a backward-facing step. Journal of Fluid Mechanics, 1997, 330, 349-374.	1.4	897
152	Tackling Turbulence with Supercomputers. Scientific American, 1997, 276, 62-68.	1.0	117
153	Direct numerical simulation of strained three-dimensional wall-bounded flows. , 1996, , .		1
154	A numerical study of three-dimensional wall-bounded flows. International Journal of Heat and Fluid Flow, 1996, 17, 333-342.	1.1	40
155	Direct numerical simulation of strained three-dimensional wall-bounded flows. Experimental Thermal and Fluid Science, 1996, 13, 239-251.	1.5	8
156	Twoâ€point velocity and vorticity correlations for axisymmetric turbulence. Physics of Fluids, 1996, 8, 838-840.	1.6	2
157	A numerical study of turbulent supersonic isothermal-wall channel flow. Journal of Fluid Mechanics, 1995, 305, 159-183.	1.4	410
158	Regeneration mechanisms of near-wall turbulence structures. Journal of Fluid Mechanics, 1995, 287, 317-348.	1.4	798
159	A numerical study of local isotropy of turbulence. Physics of Fluids, 1994, 6, 834-841.	1.6	41
160	Moderating effects of prior knowledge on the perceived diagnosticity of beliefs derived from implicit versus explicit product claims. Journal of Business Research, 1994, 29, 219-224.	5.8	47
161	Low-Reynolds-number effects on near-wall turbulence. Journal of Fluid Mechanics, 1994, 276, 61-80.	1.4	102
162	Active turbulence control for drag reduction in wall-bounded flows. Journal of Fluid Mechanics, 1994, 262, 75-110.	1.4	647

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163	Direct numerical simulation of turbulent flow over riblets. Journal of Fluid Mechanics, 1993, 255, 503.	1.4	585
164	Feedback control for unsteady flow and its application to the stochastic Burgers equation. Journal of Fluid Mechanics, 1993, 253, 509.	1.4	212
165	Isotropy of the small scales of turbulence at low Reynolds number. Journal of Fluid Mechanics, 1993, 251, 219-238.	1.4	78
166	Propagation velocity of perturbations in turbulent channel flow. Physics of Fluids A, Fluid Dynamics, 1993, 5, 695-706.	1.6	197
167	On the Origin of Streaks in Turbulent Shear Flows. , 1993, , 37-49.		27
168	Impact of consumers' confidence in judgements about missing information on product evaluations. Journal of Business Research, 1992, 25, 215-229.	5.8	22
169	The dimension of attractors underlying periodic turbulent Poiseuille flow. Journal of Fluid Mechanics, 1992, 242, 1-29.	1.4	111
170	Low-Reynolds-number effects in a fully developed turbulent channel flow. Journal of Fluid Mechanics, 1992, 236, 579-605.	1.4	216
171	On turbulent spots in plane Poiseuille flow. Journal of Fluid Mechanics Digital Archive, 1991, 228, 183.	0.6	21
172	Evolution and dynamics of shear-layer structures in near-wall turbulence. Journal of Fluid Mechanics, 1991, 224, 579-599.	1.4	141
173	Some characteristics of small-scale turbulence in a turbulent duct flow. Journal of Fluid Mechanics, 1991, 233, 369-388.	1.4	155
174	Numerical investigation of instability and transition in rotating plane Poiseuille flow. Physics of Fluids A, Fluid Dynamics, 1991, 3, 633-641.	1.6	24
175	On the effect of riblets in fully developed laminar channel flows. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1892-1896.	1.6	46
176	An Eddy Viscosity Calculation Method for a Turbulent Duct Flow. Journal of Fluids Engineering, Transactions of the ASME, 1991, 113, 616-619.	0.8	7
177	Similarity between turbulent kinetic energy and temperature spectra in the nearâ€wall region. Physics of Fluids A, Fluid Dynamics, 1991, 3, 989-991.	1.6	3
178	Turbulent Characteristics inside a Turbulent Spot in a Plane Poiseuille Flow. , 1991, , 155-165.		1
179	Structure of turbulence at high shear rate. Journal of Fluid Mechanics, 1990, 216, 561-583.	1.4	335
180	On the secondary instability in plane Poiseuille flow. Physics of Fluids A, Fluid Dynamics, 1989, 1, 775-777.	1.6	19

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181	On the structure of pressure fluctuations in simulated turbulent channel flow. Journal of Fluid Mechanics, 1989, 205, 421.	1.4	260
182	Near-wall k-epsilon turbulence modeling. AIAA Journal, 1989, 27, 1068-1073.	1.5	69
183	New approximate boundary conditions for large eddy simulations of wallâ€bounded flows. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1061-1068.	1.6	257
184	On the shape and dynamics of wall structures in turbulent channel flow. Physics of Fluids A, Fluid Dynamics, 1989, 1, 764-766.	1.6	61
185	Reynolds-stress and dissipation-rate budgets in a turbulent channel flow. Journal of Fluid Mechanics, 1988, 194, 15.	1.4	680
186	The Impact of Inferences on Product Evaluations: Replication and Extension. Journal of Marketing Research, 1988, 25, 308.	3.0	13
187	Evolution of a Vortical Structure Associated with the Bursting Event in a Channel Flow. , 1987, , 221-233.		14
188	Scaling of the bursting frequency in turbulent boundary layers at low Reynolds numbers. Physics of Fluids, 1987, 30, 3326.	1.4	28
189	Numerical simulations of turbulent spots in plane Poiseuille and boundary-layer flow. Physics of Fluids, 1987, 30, 2914.	1.4	69
190	Steady flow past sudden expansions at large Reynolds number. II. Navierâ€“Stokes solutions for the cascade expansion. Physics of Fluids, 1987, 30, 7.	1.4	22
191	Turbulence statistics in fully developed channel flow at low Reynolds number. Journal of Fluid Mechanics, 1987, 177, 133-166.	1.4	4,099
192	Evolution of a curved vortex filament into a vortex ring. Physics of Fluids, 1986, 29, 955.	1.4	95
193	The structure of the vorticity field in turbulent channel flow. Part 2. Study of ensemble-averaged fields. Journal of Fluid Mechanics, 1986, 162, 339.	1.4	146
194	Numerical Investigation of a Vortical Structure in a Wall-Bounded Shear Flow. , 1986, , 177-180.		0
195	Application of a fractional-step method to incompressible Navier-Stokes equations. Journal of Computational Physics, 1985, 59, 308-323.	1.9	2,545
196	Turbulence structures associated with the bursting event. Physics of Fluids, 1985, 28, 52-58.	1.4	55
197	The structure of the vorticity field in turbulent channel flow. Part 1. Analysis of instantaneous fields and statistical correlations. Journal of Fluid Mechanics, 1985, 155, 441.	1.4	220
198	On the structure of wall-bounded turbulent flows. Physics of Fluids, 1983, 26, 2088.	1.4	85

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199	Numerical investigation of turbulent channel flow. Journal of Fluid Mechanics, 1982, 118, 341.	1.4	1,027
200	On the numerical solution of time-dependent viscous incompressible fluid flows involving solid boundaries. Journal of Computational Physics, 1980, 35, 381-392.	1.9	132