Keh-Chin Chang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Design and Investigation of an Effective Solar Still Applicable to Remote Islands. Water (Switzerland), 2022, 14, 703.	2.7	4
2	Energy Sustainability on an Offshore Island: A Case Study in Taiwan. Energies, 2022, 15, 2258.	3.1	1
3	The Effect of Vortex Generators on Shock-Induced Boundary Layer Separation in a Transonic Convex-Corner Flow. Aerospace, 2021, 8, 157.	2.2	12
4	Micro-Vortex Generators on Transonic Convex-Corner Flow. Aerospace, 2021, 8, 268.	2.2	2
5	Solar energy-based water treatment system applicable to the remote areas: Case of Indonesia. Journal of Water Sanitation and Hygiene for Development, 2020, 10, 347-356.	1.8	4
6	Development of PIV measurement technique in turbulent flow laden with binary-size particle groups. Journal of Mechanics, 2020, 37, 161-171.	1.4	2
7	Investigation of Sheltering Effect on Global Solar Radiation Data Measured by Weather Stations. E3S Web of Conferences, 2019, 93, 02002.	0.5	0
8	Improved design of dust test chamber for uniform distribution of dust sedimentation rate. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2019, 42, 236-243.	1.1	0
9	Computational Studies of Near-Wall Behaviors of Low-Reynolds-Number Reynolds-Stress Models. AIAA Journal, 2019, 57, 279-296.	2.6	9
10	The Impact of Subsidy Programs for Solar Thermal Applications: A Case Study for a Remote Island. Energies, 2019, 12, 3944.	3.1	5
11	Multi-block adaptive mesh refinement (AMR) for a lattice Boltzmann solver using GPUs. Computers and Fluids, 2018, 175, 48-52.	2.5	5
12	Solar water heaters as a pre-heating system for industrial processes. Energy Efficiency, 2018, 11, 755-760.	2.8	4
13	Monitoring investigation of solar diffuse fraction in Taiwan. Optical and Quantum Electronics, 2018, 50, 1.	3.3	3
14	Effect of diffuse solar radiation on the thermal performance of solar collectors. Case Studies in Thermal Engineering, 2018, 12, 759-764.	5.7	9
15	A lesson learned from the long-term subsidy program for solar water heaters in Taiwan. Sustainable Cities and Society, 2018, 41, 810-815.	10.4	13
16	Pitting corrosion behaviour of 2101 duplex stainless steel in chloride solutions. Corrosion Engineering Science and Technology, 2018, 53, 9-15.	1.4	16
17	Self-sustained oscillation for compressible cylindrical cavity flows. Chinese Journal of Aeronautics, 2017, 30, 1294-1299.	5.3	3
18	The Effect of Yaw Angle on a Compressible Rectangular Cavity Flow. International Journal of Aerospace Engineering, 2017, 2017, 1-13,	0.9	1

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19	The Impact of Water Quality on the Use of Solar Water Heaters in Remote Islands of Taiwan. Water (Switzerland), 2016, 8, 530.	2.7	7
20	SHOCK EXCURSION IN TRANSONIC CONVEX-CORNER FLOWS. International Journal of Modern Physics Conference Series, 2016, 42, 1660180.	0.7	0
21	VELOCITY MEASUREMENTS OF TURBULENT WAKE FLOW OVER A CIRCULAR CYLINDER. International Journal of Modern Physics Conference Series, 2016, 42, 1660182.	0.7	0
22	Perspectives for solar thermal applications in Taiwan. Energy Policy, 2016, 94, 25-28.	8.8	11
23	Economic aspects for solar thermal application in Taiwan. Sustainable Cities and Society, 2016, 26, 354-363.	10.4	11
24	Sustainable Development for Solar Heating Systems in Taiwan. Sustainability, 2015, 7, 1970-1984.	3.2	9
25	Energy Usage of Residents on Offshore Islands in Taiwan. Sustainability, 2015, 7, 6652-6664.	3.2	3
26	In-situ measurements of solar diffuse fraction in southern Taiwan. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2015, 38, 723-730.	1.1	6
27	Solar thermal application for the livestock industry in Taiwan. Case Studies in Thermal Engineering, 2015, 6, 251-257.	5.7	11
28	Incentives to using solar thermal energy in Taiwan. Renewables: Wind, Water, and Solar, 2015, 2, .	3.7	0
29	Payback period for residential solar water heaters in Taiwan. Renewable and Sustainable Energy Reviews, 2015, 41, 901-906.	16.4	39
30	Wind Loads of Solar Water Heaters: Wind Incidence Effect. Journal of Aerodynamics, 2014, 2014, 1-10.	0.1	7
31	Solar Heating in Taiwan. Energy Procedia, 2014, 57, 834-839.	1.8	0
32	Blockage effects on surface pressures: the case of an inclined flat plate with and without a guide plate. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2014, 37, 915-922.	1.1	0
33	Heat transfer simulation of a solar test stand. Applied Thermal Engineering, 2014, 72, 143-150.	6.0	0
34	Investigation of transonic bi-convex corner flows. Aerospace Science and Technology, 2014, 39, 22-30.	4.8	2
35	Modeling the hourly solar diffuse fraction in Taiwan. Renewable Energy, 2014, 66, 56-61.	8.9	24
36	Investigation on transonic round convex-corner flows. Aerospace Science and Technology, 2014, 37, 20-25.	4.8	3

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37	Re-evaluating wake width in turbulent shear flow behind an axisymmetric cylinder by means of higher order turbulence statistics. Journal of Fluid Science and Technology, 2014, 9, JFST0035-JFST0035.	0.6	5
38	A Modeling Study on Particle Dispersion in Wall-Bounded Turbulent Flows. Advances in Applied Mathematics and Mechanics, 2014, 6, 764-782.	1.2	2
39	Tunnel Background Noise on Compressible Convex-Corner Flows. Journal of Aircraft, 2013, 50, 1011-1015.	2.4	5
40	Wind loads on a residential solar water heater. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2013, 36, 870-877.	1.1	6
41	Solar thermal market in Taiwan. Energy Policy, 2013, 55, 477-482.	8.8	11
42	Dissemination of Solar Water Heaters in Taiwan: The Case of Remote Islands. Energies, 2013, 6, 5101-5113.	3.1	3
43	Inviscid and Viscous Interactions in Subsonic Corner Flows. Scientific World Journal, The, 2013, 2013, 1-6.	2.1	2
44	Effect of a vertical guide plate on the wind loading of an inclined flat plate. Wind and Structures, an International Journal, 2013, 17, 537-552.	0.8	5
45	Problems and methods of numerical and experimental investigation of high rise constructions' aerodynamics in the coastal region "sea-land". Magazine of Civil Engineering, 2013, 37, 54-61.	1.9	21
46	Field Surveys of Non-Residential Solar Water Heating Systems in Taiwan. Energies, 2012, 5, 258-269.	3.1	28
47	RE-EVALUATING MIXING LENGTH IN TURBULENT MIXING LAYER BY MEANS OF HIGH-ORDER STATISTICS OF VELOCITY FIELD. International Journal of Modern Physics Conference Series, 2012, 19, 154-165.	0.7	2
48	Flow Visualization and Wind Uplift Analysis of a Suspended Solar Water Heater. Procedia Engineering, 2012, 31, 3-8.	1.2	1
49	Performance of Thermosyphon Solar Water Heaters in Series. Energies, 2012, 5, 3266-3278.	3.1	27
50	Flow Similarity in Compressible Convex-Corner Flows. AIAA Journal, 2012, 50, 985-988.	2.6	12
51	Redefining Mixing Length in Turbulent Mixing Layer in Terms of Shear-Induced Vorticity. Journal of Fluid Science and Technology, 2011, 6, 662-673.	0.6	4
52	Wind loads on residential and large-scale solar collector models. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 59-64.	3.9	33
53	Subsidy programs on diffusion of solar water heaters: Taiwan's experience. Energy Policy, 2011, 39, 563-567.	8.8	39
54	Dissemination of solar water heaters in South Africa. Journal of Energy in Southern Africa, 2011, 22, 2-7.	0.8	7

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55	Experimental study on evolution of joint velocity PDF in planar mixing layer. Experimental Thermal and Fluid Science, 2010, 34, 1122-1132.	2.7	8
56	EXPERIMENTAL INVESTIGATION OF VELOCITY AUTOCORRELATION FUNCTIONS IN TURBULENT PLANAR MIXING LAYER. Modern Physics Letters B, 2010, 24, 1361-1364.	1.9	0
57	TURBULENCE MODULATION MEASUREMENTS IN A CHARGED MONODISPERSED DROPLET STREAM. Chemical Engineering Communications, 2009, 197, 158-168.	2.6	0
58	ESTIMATION OF CONVECTION SPEED THROUGH PIV MEASUREMENTS IN TURBULENT PLANAR MIXING LAYER. Modern Physics Letters B, 2009, 23, 353-356.	1.9	0
59	Local market of solar water heaters in Taiwan: Review and perspectives. Renewable and Sustainable Energy Reviews, 2009, 13, 2605-2612.	16.4	41
60	PIV measurements of turbulent flow in planar mixing layer. Experimental Thermal and Fluid Science, 2009, 33, 527-537.	2.7	23
61	Evaluation of Mixing Length in a Planar Mixing Layer Based on Shear-Induced Vortex Quantity. , 2009, , .		0
62	Analytical and numerical modeling of a spherical diffusion microflame. Combustion, Explosion and Shock Waves, 2008, 44, 1-8.	0.8	2
63	Specific features of combustion in a variable-section narrow channel with a periodically changing gas flow. Combustion, Explosion and Shock Waves, 2008, 44, 509-516.	0.8	3
64	Reduction of wind uplift of a solar collector model. Journal of Wind Engineering and Industrial Aerodynamics, 2008, 96, 1294-1306.	3.9	37
65	Outlook for solar water heaters in Taiwan. Energy Policy, 2008, 36, 66-72.	8.8	40
66	Volume fraction flux approximation in a two-fluid flow. Thermophysics and Aeromechanics, 2008, 15, 169-186.	0.5	10
67	Applicability Limit of Binary Collision Model in Dense Particle Flow. , 2008, , .		0
68	Performance Examination of Geometry-Independent Near-Wall Second-Moment Closures in Simple and Backstep Flows. Numerical Heat Transfer, Part B: Fundamentals, 2007, 51, 179-204.	0.9	6
69	A Lagrangian modeling approach with the direct simulation Monte-Carlo method for inter-particle collisions in turbulent flow. Advanced Powder Technology, 2007, 18, 395-426.	4.1	7
70	Large Eddy Simulation of Turbulent Flow Laden With Binary Mixture of Particles. , 2007, , .		0
71	Solar water heaters in Taiwan. Renewable Energy, 2006, 31, 1299-1308.	8.9	31
72	A STUDY ON FLOW REGIME NEAR CRITICAL RAYLEIGH NUMBER FOR BUOYANCY-DRIVEN CAVITY FLOW. Modern Physics Letters B, 2005, 19, 1635-1638.	1.9	0

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73	Grid-Averaged Lagrangian Equations of Dispersed Phase in Dilute Two-Phase Flow. AIAA Journal, 2003, 41, 1292-1303.	2.6	3
74	Coefficients of Time and Length Scales of Turbulent Eddies. Journal of Mechanics, 2002, 18, 193-197.	1.4	0
75	Revisiting heat transfer analysis for rapid solidification of metal droplets. International Journal of Heat and Mass Transfer, 2001, 44, 1573-1583.	4.8	10
76	Inflow Conditions in Stochastic Eulerian-Lagrangian Calculations of Two-Phase Turbulent Flow. AIAA Journal, 2001, 39, 2100-2110.	2.6	2
77	Revisiting the Reynolds-averaged energy equation in near-wall turbulence models. International Journal of Heat and Mass Transfer, 2000, 43, 665-676.	4.8	11
78	Enhancement of Natural Convection by Eccentricity of Power Cable Inside Underground Conduit. Journal of Thermophysics and Heat Transfer, 2000, 14, 604-606.	1.6	1
79	Natural Convection Simulation Inside the Underground Conduit of an Electrical Power Cable. Journal of Thermophysics and Heat Transfer, 2000, 14, 557-565.	1.6	3
80	Two-Layer Approach Combining Reynolds Stress and Low-Reynolds-Number k-e Models. AIAA Journal, 1999, 37, 283-287.	2.6	1
81	Unsteady Drag Consideration in Stochastic Eulerian-Lagrangian Formulation of Two-Phase Flow. AIAA Journal, 1999, 37, 434-442.	2.6	5
82	Lagrangian Transport Equation of Fluctuating Kinetic Energy in the Dispersed Phase. International Journal of Fluid Mechanics Research, 1997, 24, 808-817.	0.4	1
83	TURBULENT FLOW CALCULATION WITH ORTHODOX QUICK SCHEME. Numerical Heat Transfer; Part A: Applications, 1996, 30, 589-604.	2.1	6
84	Calculation of wall heat transfer in pipeexpansion turbulent flows. International Journal of Heat and Mass Transfer, 1996, 39, 3813-3822.	4.8	25
85	LIMITATIONS OF THE STOCHASTIC APPROACH IN TWO-PHASE TURBULENT FLOW CALCULATIONS. Atomization and Sprays, 1996, 6, 211-225.	0.8	5
86	Theoretical investigation of transient droplet combustion by considering flame radiation. International Journal of Heat and Mass Transfer, 1995, 38, 2611-2621.	4.8	29
87	A study on two-phase turbulent structure of evaporating spray. , 1995, , .		0
88	A Modified Low-Reynolds-Number Turbulence Model Applicable to Recirculating Flow in Pipe Expansion. Journal of Fluids Engineering, Transactions of the ASME, 1995, 117, 417-423.	1.5	102
89	MODIFICATION OF THE Î ^e -ε TURBULENCE MODEL FOR SWIRLING RECIRCULATING FLOW IN A PIPE EXPANSION. International Journal of Computational Fluid Dynamics, 1995, 5, 263-279.	1.2	2
90	SENSITIVITY STUDY ON MONTE CARLO SOLUTION PROCEDURE OF TWO-PHASE TURBULENT FLOW. Numerical Heat Transfer, Part B: Fundamentals, 1994, 25, 223-244.	0.9	19

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91	Application of a robust Î ² -pdf treatment to analysis of thermal NO formation in nonpremixed hydrogen-air flame. Combustion and Flame, 1994, 98, 375-390.	5.2	29
92	Development of a hybridk-É› turbulence model for swirling recirculating flows under moderate to strong swirl intensities. International Journal for Numerical Methods in Fluids, 1993, 16, 421-443.	1.6	26
93	MULTIGRID COMPUTATION FOR TURBULENT RECIRCULATING FLOWS IN COMPLEX GEOMETRIES. Numerical Heat Transfer; Part A: Applications, 1993, 23, 79-98.	2.1	14
94	Parametric Study on Reduction of SO2Emissions in a Coal-Fired Pulsating Combustor. Combustion Science and Technology, 1993, 90, 253-266.	2.3	0
95	Theoretical and Experimental Study on Two-Phase Structure of Planar Mixing Layer. AIAA Journal, 1993, 31, 68-74.	2.6	16
96	Experimental and theoretical study on hollow-cone spray. Journal of Propulsion and Power, 1993, 9, 28-34.	2.2	29
97	Effect of composition change on temperature measurements in a premixed flame by holographic interferometry. Optical Engineering, 1992, 31, 353.	1.0	16
98	Comparative numerical studies on Reynolds and Favre averagings of turbulent diffusion flame. Journal of Propulsion and Power, 1992, 8, 259-263.	2.2	3
99	NUMERICAL TREATMENT OF DIFFUSION COEFFICIENTS AT INTERFACES. Numerical Heat Transfer; Part A: Applications, 1992, 21, 363-376.	2.1	11
100	Application of laser holographic interferometry to temperature measurements in buoyant air jets. Journal of Thermophysics and Heat Transfer, 1992, 6, 377-379.	1.6	3
101	Numerical boundary conditions at the interface in a confined flow computation. Computers and Fluids, 1992, 21, 571-581.	2.5	0
102	A diffusion-type problem with variable diffusion coefficient in multi-layer slab. International Communications in Heat and Mass Transfer, 1992, 19, 841-849.	5.6	1
103	Analysis of finite laminar opposed-jets with and without rigid-body rotation. International Journal of Heat and Mass Transfer, 1992, 35, 945-956.	4.8	7
104	Analytical Solution for Heat Conduction in a Two-Material-Layer Slab With Linearly Temperature Dependent Conductivity. Journal of Heat Transfer, 1991, 113, 237-239.	2.1	14
105	Study on reduction of SO2 and NOX emissions in a pulsating combustor burning petroleum coke. Energy, 1991, 16, 849-858.	8.8	8
106	A hybridk-É› turbulence model of recirculating flow. International Journal for Numerical Methods in Fluids, 1991, 12, 369-382.	1.6	7
107	Analytical and numerical approaches for heat conduction in composite materials. Mathematical and Computer Modelling, 1990, 14, 899-904.	2.0	8
108	Sulfur Removal from Coal-Fired Rijke-Type Pulsating Combustor by Burning with Calcium Carbonate Particles. The JSME International Journal, Series 2: Fluids Engineering, Heat Transfer, Power, Combustionrmophysical Properties, 1990, 33, 384-388.	0.1	0

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109	Combustion of pulverized coal using waste carbon dioxide and oxygen. Combustion and Flame, 1988, 72, 301-310.	5.2	59