David A Johnson

List of Publications by Year
in descending order

51 papers	1,154 citations	394421 19 h-index	395702 33 g-index
52 all docs	52 docs citations	52 times ranked	781 citing authors

#	Article	IF	Citations
1	Dynamic stall simulation of a pitching airfoil under unsteady freestream velocity. Journal of Fluids and Structures, 2013, 42, 228-244.	3.4	152
2	The humping phenomenon during high speed gas metal arc welding. Science and Technology of Welding and Joining, 2005, 10, 447-459.	3.1	111
3	High speed fusion weld bead defects. Science and Technology of Welding and Joining, 2006, 11, 618-633.	3.1	98
4	Numerical modeling of an S809 airfoil under dynamic stall, erosion and high reduced frequencies. Applied Energy, 2012, 93, 45-52.	10.1	98
5	Experimental heat transfer and flow analysis of a vented brake rotor. International Journal of Thermal Sciences, 2008, 47, 458-467.	4.9	78
6	Experimental and computational studies of the fluid mechanics in an opposed jet mixing head. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1362-1368.	1.6	71
7	Analysis of the Flow Through a Vented Automotive Brake Rotor. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 979-986.	1.5	43
8	Selfâ€sustained oscillations in opposed impinging jets in an enclosure. Canadian Journal of Chemical Engineering, 2000, 78, 867-875.	1.7	41
9	The effect of geometrical parameters on the flow field of an opposed jet rim mix head: Equal flow and matched fluids. Canadian Journal of Chemical Engineering, 1996, 74, 40-48.	1.7	32
10	Experimental and Numerical Analysis of Turbulent Opposed Impinging Jets. AIAA Journal, 2001, 39, 1901-1908.	2.6	31
11	Experimental and numerical examination of confined laminar opposed jets part I. Momentum imbalance. International Communications in Heat and Mass Transfer, 2000, 27, 443-454.	5.6	29
12	Experimental study of the effect of tower shadow on anemometer readings. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 1-6.	3.9	26
13	Cubical-cavity natural-convection benchmark experiments: an extension. International Journal of Heat and Mass Transfer, 2003, 46, 3655-3660.	4.8	25
14	Predicting onset of high speed gas metal arc weld bead defects using dimensional analysis techniques. Science and Technology of Welding and Joining, 2007, 12, 634-648.	3.1	24
15	A Y-channel design for improving zeta potential and surface conductivity measurements using the current monitoring method. Microfluidics and Nanofluidics, 2009, 6, 241-251.	2.2	24
16	Experimental and numerical examination of confined laminar opposed jets part II. Momentum balancing. International Communications in Heat and Mass Transfer, 2000, 27, 455-463.	5.6	23
17	PIV-based load investigation in dynamic stall for different reduced frequencies. Experiments in Fluids, 2014, 55, 1.	2.4	23
18	Effects of nonuniform incident velocity on a dynamic wind turbine airfoil. Wind Energy, 2015, 18, 237-251.	4.2	22

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19	An evaluation testbed for wind turbine blade tip designs-baseline case. International Journal of Energy Research, 2011, 35, 1360-1370.	4.5	21
20	An Evaluation Testbed for Wind Turbine Blade Tip Designs â€" Winglet Results. Wind Engineering, 2012, 36, 389-410.	1.9	21
21	A model-based validation framework for PIV and PTV. Experiments in Fluids, 2004, 36, 23-35.	2.4	16
22	Experimental and numerical characterization of the flowfield in the largeâ€scale UW live fire research facility. International Journal for Numerical Methods in Fluids, 2009, 60, 539-564.	1.6	15
23	Dynamic Stall on Pitching Cambered Airfoil with Phase Offset Trailing Edge Flap. AIAA Journal, 2020, 58, 2844-2856.	2.6	15
24	Velocity Measurement of Flow Around Model Vertical Axis Wind Turbines. International Journal of Green Energy, 2008, 5, 55-68.	3.8	14
25	Digital tuft analysis of stall on operational wind turbines. Wind Energy, 2016, 19, 703-715.	4.2	12
26	Deep dynamic stall and active aerodynamic modification on a S833 airfoil using pitching trailing edge flap. Wind Engineering, 2021, 45, 884-903.	1.9	12
27	Evaluation of FFT-based cross-correlation algorithms for PIV in a periodic grooved channel. Experiments in Fluids, 2003, 34, 473-483.	2.4	11
28	Measurements of Rotating Stall Inside a Centrifugal Pump Impeller. , 2005, , 1281.		9
29	PIV measurements of the flow field inside an enclosed cubical cavity in natural convection. Experiments in Fluids, 2008, 44, 647-659.	2.4	8
30	A 2D Blade Element Study of a Wind Turbine Rotor under Yaw Loads. Wind Engineering, 2015, 39, 557-567.	1.9	8
31	Experimental Indirect Determination of Wind Turbine Performance and Blade Element Theory Parameters in Controlled Conditions. Wind Engineering, 2012, 36, 717-737.	1.9	7
32	Development of a Wind Turbine Test Rig and Rotor for Trailing Edge Flap Investigation: Static Flap Angles Case. Journal of Physics: Conference Series, 2014, 524, 012059.	0.4	7
33	A method to anchor displacement vectors to reduce uncertainty and improve particle image velocimetry results. Measurement Science and Technology, 2004, 15, 9-20.	2.6	6
34	The Application of a MEMS Microphone Phased Array to Aeroacoustics of Small Wind Turbines. Wind Engineering, 2013, 37, 637-657.	1.9	5
35	A compact in-blade five hole pressure probe for local inflow study on a horizontal axis wind turbine. Wind Engineering, 2016, 40, 360-378.	1.9	4
36	Wind Turbine Performance in Controlled Conditions: BEM Modeling and Comparison with Experimental Results. International Journal of Rotating Machinery, 2016, 2016, 1-11.	0.8	3

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37	Wind turbine wake effect visualization and LiDAR measurement techniques. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 490-498.	0.8	3
38	Erratum to â€œCubical-cavity natural-convection benchmark experiments: an extentionâ€•[International Journal of Heat and Mass Transfer 46 (2003) 3655â€“3660]. International Journal of Heat and Mass Transfer, 2005, 48, 1224.	4.8	2
39	Experimental examination of welding nozzle jet flow at cold flow conditions. Science and Technology of Welding and Joining, 2006, 11, 681-687.	3.1	1
40	Examination of Welding Nozzle Jet Flow at Cold Flow Conditions. , 2002, , .		1
41	Vector Positioning for Cross Correlation PIV. , 2002, , .		1
42	Comparative Measurements of the Effect of a Winglet on a Wind Turbine. Research Topics in Wind Energy, 2014, , 121-126.	0.2	1
43	Analysis of the Immediate Boundary Conditions of an Axial Flow Impeller. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 771-779.	1.5	0
44	WALL JET DEVELOPMENT IN A TURBULENT RECIRCULATING CAVITY FLOW. Chemical Engineering Communications, 2004, 191, 625-640.	2.6	0
45	Pressure and Acceleration Determination Methods Using PIV Velocity Data. , 2008, , .		0
46	Effects of Hydrophobic Recovery of Plasma Treated PDMS Microchannels on Surface Tension Driven Flow. , 2010, , .		0
47	Novel Image Analysis Method for Blade Aerodynamic Performance on Operational Turbine. Journal of Physics: Conference Series, 2014, 524, 012016.	0.4	0
48	Computational aeroacoustic prediction of trailing edge noise for small wind turbines. Journal of Physics: Conference Series, 2020, 1618, 042010.	0.4	0
49	Quantifying Trailing Edge Flap Control Capability on Wind Turbines in a Controlled Environment. AIAA Journal, 0, , 1-11.	2.6	0
50	A Novel Y-Channel Design for Measuring the Zeta Potential Using the Current Monitoring Technique. , 2007, , .		0
51	Unsteady Flow Investigation around a Pitching Wind Turbine Blade Element. Research Topics in Wind Energy, 2014, , 115-120.	0.2	0