Christian Klein

List of Publications by Year
in descending order

25 papers	521 citations	759233 12 h-index	752698 20 g-index
26 all docs	26 docs citations	26 times ranked	199 citing authors

#	Article	IF	Citations
1	Application of pressure-sensitive paint for determination of the pressure field and calculation of the forces and moments of models in a wind tunnel. Experiments in Fluids, 2005, 39, 475-483.	2.4	110
2	Pressure and Temperature Sensitive Paints. Experimental Fluid Mechanics, 2021, , .	1.5	65
3	Europium 1,3-di(thienyl)propane-1,3-diones with outstanding properties for temperature sensing. Sensors and Actuators A: Physical, 2015, 233, 434-441.	4.1	59
4	Global and local skin friction diagnostics from TSP surface patterns on an underwater cylinder in crossflow. Physics of Fluids, 2016, 28, .	4.0	36
5	Nonadiabatic Surface Effects on Transition Measurements Using Temperature-Sensitive Paints. AIAA Journal, 2015, 53, 1172-1187.	2.6	35
6	Single-shot pressure-sensitive paint lifetime measurements on fast rotating blades using an optimized double-shutter technique. Experiments in Fluids, 2017, 58, 1.	2.4	30
7	Pressure Gradient and Nonadiabatic Surface Effects on Boundary Layer Transition. AIAA Journal, 2016, 54, 3465-3480.	2.6	24
8	Combination of Temperature Sensitive Paint and Carbon Nanotubes for Transition Detection. , 2015, , .		22
9	Successful Application of Cryogenic Pressure Sensitive Paint Technique at ETW. , 2018, , .		16
10	Taylor hypothesis applied to direct measurement of skin friction using data from Temperature Sensitive Paint. Experimental Thermal and Fluid Science, 2020, 110, 109913.	2.7	15
11	Feasibility of skin-friction field measurements in a transonic wind tunnel using a global luminescent oil film. Experiments in Fluids, 2021, 62, 1.	2.4	15
12	A robust method for reliable transition detection in temperature-sensitive paint data. Aerospace Science and Technology, 2021, 113, 106702.	4.8	15
13	Boundary-layer transition measurements on Mach-scaled helicopter rotor blades in climb. CEAS Aeronautical Journal, 2017, 8, 613-623.	1.7	14
14	Unit Reynolds number, Mach number and pressure gradient effects on laminarâ€“turbulent transition in two-dimensional boundary layers. Experiments in Fluids, 2018, 59, 1.	2.4	14
15	Fast-response underwater TSP investigation of subcritical instabilities of a cylinder in crossflow. Experiments in Fluids, 2015, 56, 1.	2.4	9
16	Detection of Lambda- and Omega-vortices with the temperature-sensitive paint method in the late stage of controlled laminarâ€“turbulent transition. Experiments in Fluids, 2019, 60, 1.	2.4	9
17	Experimental Analysis of a Wind-Turbine Rotor Blade Airfoil by means of Temperature-Sensitive Paint. , 2019, , .		6
18	Incipient stall characterization from skin-friction maps. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 674-693.	2.8	6

#	Article	IF	Citations
19	Dynamic-stall measurements using time-resolved pressure-sensitive paint on double-swept rotor blades. Experiments in Fluids, 2022, 63, 1.	2.4	5
20	Experimental Analysis of the Performance of a Wind-Turbine Airfoil Using Temperature-Sensitive Paint. AIAA Journal, 2021, 59, 4449-4464.	2.6	4
21	An Ultra-Fast TSP on a CNT Heating Layer for Unsteady Temperature and Heat Flux Measurements in Subsonic Flows. Sensors, 2022, 22, 657.	3.8	4
22	Skin-Friction-Based Identification of the Critical Lines in a Transonic, High Reynolds Number Flow via Temperature-Sensitive Paint. Sensors, 2021, 21, 5106.	3.8	3
23	Comparison of LED and LASER based Lifetime Pressure-Sensitive Paint Measurement Techniques. , 2018, , .		2
24	Application of Temperature Sensitive Paint for time resolved investigations of laminar-to-turbulent transition on oscillating airfoils. , 2022, , .		2
25	Application of the temperature-sensitive paint method for quantitative measurements in water. Measurement Science and Technology, 2021, 32, 105301.	2.6	1