John A Ekaterinaris

List of Publications by Year
in descending order

54 papers	1,334 citations	516710 16 h-index	361022 35 g-index
54 all docs	54 docs citations	54 times ranked	940 citing authors

#	Article	IF	Citations
1	Computational prediction of airfoil dynamic stall. Progress in Aerospace Sciences, 1998, 33, 759-846.	12.1	268
2	High-order accurate, low numerical diffusion methods for aerodynamics. Progress in Aerospace Sciences, 2005, 41, 192-300.	12.1	219
3	Implicit, High-Resolution, Compact Schemes for Gas Dynamics and Aeroacoustics. Journal of Computational Physics, 1999, 156, 272-299.	3.8	101
4	A decoupled fluid structure approach for estimating wall stress in abdominal aortic aneurysms. Journal of Biomechanics, 2007, 40, 367-377.	2.1	101
5	Design, performance evaluation and optimization of a UAV. Aerospace Science and Technology, 2013, 29, 339-350.	4.8	92
6	A staggered grid, high-order accurate method for the incompressible Navierâ€“Stokes equations. Journal of Computational Physics, 2006, 215, 589-613.	3.8	39
7	Transonic flutter computations for the NLR 7301 supercritical airfoil. Aerospace Science and Technology, 2001, 5, 293-304.	4.8	37
8	Numerical Investigations of Dynamic Stall Active Control for Incompressible and Compressible Flows. Journal of Aircraft, 2002, 39, 71-78.	2.4	35
9	Flow Dynamics in Expansions Characterizing Abdominal Aorta Aneurysms. Annals of Vascular Surgery, 2006, 20, 351-359.	0.9	35
10	High-Order Discontinuous Galerkin Discretizations for Computational Aeroacoustics in Complex Domains. AIAA Journal, 2006, 44, 502-511.	2.6	30
11	Acceleration of a Finite-Difference WENO Scheme for Large-Scale Simulations on Many-Core Architectures. , 2010, , .		26
12	Robotic underwater propulsion inspired by the octopus multi-arm swimming. , 2012, , .		25
13	Prediction of active flow control performance on airfoils and wings. Aerospace Science and Technology, 2004, 8, 401-410.	4.8	24
14	CFD study of aquatic thrust generation by an octopus-like arm under intense prescribed deformations. Computers and Fluids, 2015, 115, 54-65.	2.5	19
15	Numerical Simulation of Incompressible Two-Blade Rotor Flowfields. Journal of Propulsion and Power, 1998, 14, 367-374.	2.2	18
16	High order discontinuous Galerkin discretizations with a new limiting approach and positivity preservation for strong moving shocks. Computers and Fluids, 2013, 71, 98-112.	2.5	18
17	High order accurate simulation of compressible flows on GPU clusters over Software Distributed Shared Memory. Computers and Fluids, 2014, 93, 18-29.	2.5	18
18	High-order accurate numerical solutions of incompressible flows with the artificial compressibility method. International Journal for Numerical Methods in Fluids, 2004, 45, 1187-1207.	1.6	17

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19	Assessment of an unstructured mesh approach for CFD predictions of the NH90 fuselage rotor. Aerospace Science and Technology, 2012, 19, 77-85.	4.8	15
20	Performance of High-Order-Accurate, Low-Diffusion Numerical Schemes for Compressible Flow. AIAA Journal, 2004, 42, 493-500.	2.6	13
21	Design and Analysis of a Light Cargo UAV Prototype. Journal of Aerospace Engineering, 2012, 25, 228-237.	1.4	13
22	A discontinuous Galerkin approach for high-resolution simulations of three-dimensional flows. Computer Methods in Applied Mechanics and Engineering, 2016, 299, 245-282.	6.6	12
23	Viscous-inviscid interaction method for unsteady low-speed airfoil flows. AIAA Journal, 1995, 33, 151-153.	2.6	11
24	Highâ€resolution pâ€adaptive DG simulations of flows with moving shocks. International Journal for Numerical Methods in Fluids, 2014, 75, 205-230.	1.6	11
25	Generation of primitive behaviors for non-linear hyperelastic octopus-inspired robotic arm. , 2012, , .		10
26	A nonlinear filter for high order discontinuous Galerkin discretizations with discontinuity resolution within the cell. Journal of Computational Physics, 2016, 326, 234-257.	3.8	10
27	Discontinuous-Galerkin Discretizations for Viscous Flow Problems in Complex Domains. , 2005, , .		9
28	A limiting approach for DG discretizations on mixed type meshes. Computer Methods in Applied Mechanics and Engineering, 2015, 285, 587-620.	6.6	9
29	High-Order Numerical Method for Magnetohydrodynamic Control of Shock-Induced Separation. AIAA Journal, 2010, 48, 2781-2792.	2.6	8
30	Artificial boundary conditions for the numerical solution of the Euler equations by the discontinuous galerkin method. Journal of Computational Physics, 2011, 230, 5974-5995.	3.8	8
31	Optimized diagonally implicit Runge-Kutta schemes for time-dependent wave propagation problems. Aerospace Science and Technology, 2019, 93, 105343.	4.8	7
32	A Limiting Approach for Three-Dimensional DG Discetizations in Arbitrary-Type Meshes. , 2011, , .		6
33	Accelerating the simulation of brain tumor proliferation with many-core GPUs. Journal of Computational Science, 2012, 3, 306-313.	2.9	6
34	Normal shock wave attenuation during propagation in ducts with grooves. Shock Waves, 2020, 30, 91-113.	1.9	6
35	HIGH-ORDER ACCURATE NUMERICAL SCHEMES FOR THE PARABOLIC EQUATION. Journal of Computational Acoustics, 2005, 13, 613-639.	1.0	5
36	Implicit High-Order Time Marching Schemes for the Linearized Euler Equations. AIAA Journal, 2007, 45, 1819-1826.	2.6	5

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37	Numerical solution of the Maxwell Equations With A High-Order Divergence Free Preserving DG Method. , 2012, , .		5
38	A Computational Fluid Dynamic Study of Intense Cephalopod-like Motions. , 2014, , .		5
39	A fully implicit scheme for simulating ionized gas flows using the gas dynamics electrodynamics coupled system. International Journal for Numerical Methods in Fluids, 2014, 76, 909-937.	1.6	5
40	Impact of Arm Morphology on the Hydrodynamic Behavior of a Two-arm Robotic Marine Vehicle * *This work was supported in part by the Programmatic Agreements between Research Centres - GSRT 2015-2017 in the Framework of the Hellenic Republic - Siemens Agreement.. IFAC-PapersOnLine, 2017, 50, 2304-2309.	0.9	5
41	Time-marching schemes for spatially high order accurate discretizations of the Euler and Navierâ€“Stokes equations. Progress in Aerospace Sciences, 2022, 130, 100795.	12.1	5
42	Multigrid cell-centered techniques for high-order incompressible flow numerical solutions. Aerospace Science and Technology, 2017, 64, 85-101.	4.8	4
43	Limiters for Discontinuous Galerkin Discretizations for Mixed Type Meshes with p-type adaptivity. , 2011, , .		3
44	Discontinuous Galerkin Discretization of Chemically Reacting Flows. , 2014, , .		3
45	A pâ€adaptive method for electromagnetic wave propagation. International Journal for Numerical Methods in Engineering, 2017, 112, 1687-1711.	2.8	3
46	Propulsive efficiency in drag-based locomotion of a reduced-size swimmer with various types of appendages. Computers and Fluids, 2018, 167, 241-248.	2.5	3
47	Implicit high-order-accurate-in-space algorithms for the Navier-Stokes equations. AIAA Journal, 2000, 38, 1594-1602.	2.6	2
48	New formulation of Hardin-Pope equations for aeroacoustics. AIAA Journal, 1999, 37, 1033-1039.	2.6	2
49	Towards the Implementation of Wind Turbine Simulations on Many-Core Systems. , 2015, , .		1
50	Three-Dimensional Discontinuous Galerkin h/p Adaptive Numerical Solutions for Compressible Flows. , 2015, , .		1
51	Upwind scheme for acoustic disturbances generated by low-speed flows. AIAA Journal, 1997, 35, 1448-1455.	2.6	1
52	A dissipative Filter for the Discontinuous Galerkin method. , 2015, , .		0
53	A dissipative lter for DG discretizations with subcell discontinuity resolution. , 2016, , .		0
54	A Numerical Investigation of Shock Wave Propagation in Ducts with Grooves.. , 2019, , .		0