

# Demetri G Bouris

## List of Publications by Year in descending order

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32  
papers

840  
citations

516710

16  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

739  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D numerical simulation of flow and conjugate heat transfer through a pore scale model of high porosity open cell metal foam. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2539-2550.	4.8	170
2	2D LES of vortex shedding from a square cylinder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1999, 80, 31-46.	3.9	91
3	Comparative design study of a diesel exhaust gas heat exchanger for truck applications with conventional and state of the art heat transfer enhancements. <i>Applied Thermal Engineering</i> , 2010, 30, 935-947.	6.0	71
4	Design of a novel, intensified heat exchanger for reduced fouling rates. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 3817-3832.	4.8	64
5	Numerical evaluation of alternate tube configurations for particle deposition rate reduction in heat exchanger tube bundles. <i>International Journal of Heat and Fluid Flow</i> , 2001, 22, 525-536.	2.4	57
6	Numerical evaluation of a heat exchanger with inline tubes of different size for reduced fouling rates. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5185-5195.	4.8	47
7	Two dimensional time dependent simulation of the subcritical flow in a staggered tube bundle using a subgrid scale model. <i>International Journal of Heat and Fluid Flow</i> , 1999, 20, 105-114.	2.4	31
8	Vortex synchronization in the cylinder wake due to harmonic and non-harmonic perturbations. <i>Journal of Fluid Mechanics</i> , 2016, 804, 248-277.	3.4	29
9	Pore scale 3D modelling of heat and mass transfer in the gas diffusion layer and cathode channel of a PEM fuel cell. <i>International Journal of Thermal Sciences</i> , 2011, 50, 456-467.	4.9	27
10	Calculation of the distribution of incoming solar radiation in enclosures. <i>Applied Thermal Engineering</i> , 2009, 29, 1096-1105.	6.0	26
11	Numerical calculation of the effect of deposit formation on heat-exchanger efficiency. <i>International Journal of Heat and Mass Transfer</i> , 1997, 40, 4073-4084.	4.8	22
12	Modelling of internal and near-nozzle flow of a pintle-type outwards-opening gasoline piezo-injector. <i>International Journal of Engine Research</i> , 2006, 7, 381-397.	2.3	21
13	Laminar flow and heat transfer in U-bends: The effect of secondary flows in ducts with partial and full curvature. <i>International Journal of Thermal Sciences</i> , 2018, 130, 70-93.	4.9	21
14	Effects of fouling on the efficiency of heat exchangers in lignite utility boilers. <i>Applied Thermal Engineering</i> , 1997, 17, 739-749.	6.0	19
15	Impact of Urban Morphology on Infiltration-Induced Building Energy Consumption. <i>Energies</i> , 2016, 9, 177.	3.1	17
16	3D conjugate heat transfer with thermal radiation in a hollow cube exposed to external flow. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 6157-6168.	4.8	16
17	Experimental evaluation of pairs of inline tubes of different size as components for heat exchanger tube bundles. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 280-290.	4.8	16
18	Effect of nonharmonic forcing on bluff-body vortex dynamics. <i>Physical Review E</i> , 2009, 79, 045303.	2.1	12

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19	The effect of nonharmonic forcing on bluff-body aerodynamics at a low Reynolds number. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010, 98, 245-252.	3.9	11
20	Drag and inertia coefficients for a circular cylinder in steady plus low-amplitude oscillatory flows. <i>Applied Ocean Research</i> , 2017, 65, 219-228.	4.1	11
21	Thermographic measurement and numerical weather forecast along a highway road surface. <i>Meteorological Applications</i> , 2010, 17, 474-484.	2.1	10
22	3D Numerical Simulation of the Transient Thermal Behavior of a Simplified Building Envelope Under External Flow. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2009, 131, .	1.8	9
23	Experimental investigation of the atmospheric boundary layer flow past a building model with openings. <i>Building and Environment</i> , 2018, 141, 166-181.	6.9	9
24	Urban-Scale Computational Fluid Dynamics Simulations with Boundary Conditions from Similarity Theory and a Mesoscale Model. <i>Energies</i> , 2021, 14, 5624.	3.1	7
25	An approach to characterization and after-treatment of particulate emissions from gasoline engines. <i>International Journal of Engine Research</i> , 2000, 1, 291-300.	2.3	6
26	Numerical Comparative Study of Compressor Rotor and Stator Blade Deposition Rates. <i>Journal of Engineering for Gas Turbines and Power</i> , 2002, 124, 608-616.	1.1	5
27	Evaluation of an atmospheric model with surface and ABL meteorological data for energy applications in structured areas. <i>Theoretical and Applied Climatology</i> , 2019, 135, 1227-1242.	2.8	5
28	Experimental evaluation of flat-plate heat absorbers for medium-temperature linear-focus solar systems: Composite U-bends vs straight rectangular-multi-channels. <i>Applied Thermal Engineering</i> , 2020, 175, 115364.	6.0	4
29	Effects of Building Energy Efficiency Measures on Air Quality at the Neighborhood Level in Athens, Greece. <i>Energies</i> , 2020, 13, 5689.	3.1	2
30	Effects of Improved Energy Performance of Buildings on Air Quality over the Greater Athens Area. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 410, 012002.	0.3	2
31	Calculation of the Pressure Field for Turbulent Flow around a Surface-Mounted Cube Using the SIMPLE Algorithm and PIV Data. <i>Fluids</i> , 2022, 7, 140.	1.7	2
32	Controlling Unsteady Separation from a Cylinder by Non-Harmonic Perturbations. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2016, , 349-361.	0.3	0