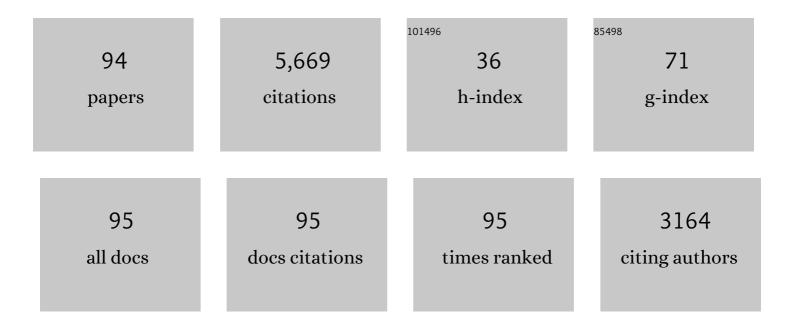
Mohamed Gad-el-Hak

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Slippery surfaces: A decade of progress. Physics of Fluids, 2021, 33, . | 1.6 | 43 |
| 2 | Activated carbon-doped polystyrene fibers for direct contact membrane desalination. Emergent Materials, 2020, 3, 807-814. | 3.2 | 13 |
| 3 | Academic Malaise: Bring Back the Groves of Academe. Academic Questions, 2019, 32, 384-391. | 0.0 | 2 |
| 4 | Aerodynamic heating in transitional hypersonic boundary layers: Role of second-mode instability. Physics of Fluids, 2018, 30, . | 1.6 | 103 |
| 5 | Newly identified principle for aerodynamic heating in hypersonic flows. Journal of Fluid Mechanics, 2018, 855, 152-180. | 1.4 | 66 |
| 6 | Editorial: In defense of science—What would John do?. Physics of Fluids, 2017, 29, 020602. | 1.6 | 2 |
| 7 | Flow Control. , 2016, , 32-1-32-21. | | 0 |
| 8 | Transition in Hypersonic Boundary Layers: Role of Dilatational Waves. AIAA Journal, 2016, 54, 3039-3049. | 1.5 | 85 |
| 9 | Book Review - Essentials of Micro- and Nanofluidics: With Applications to the Biological and Chemical Sciences. A. Terrence Conlisk. Cambridge University Press, 2013. 537 pages. ISBN 978-0-521-88168-5 Journal of Fluid Mechanics, 2015, 779, 859-860. | 1.4 | 2 |
| 10 | Transition in hypersonic boundary layers. AIP Advances, 2015, 5, . | 0.6 | 50 |
| 11 | Polymeric Slippery Coatings: Nature and Applications. Polymers, 2014, 6, 1266-1311. | 2.0 | 42 |
| 12 | Monologues of Learning. Academic Questions, 2014, 27, 310-312. | 0.0 | 1 |
| 13 | Bring back The Groves of Academe. Engineering Education Letters, 2014, 2015, . | 0.0 | 0 |
| 14 | Novel method to characterize superhydrophobic coatings. Journal of Colloid and Interface Science, 2013, 395, 315-321. | 5.0 | 17 |
| 15 | Comment on "Experimental study of skin friction drag reduction on superhydrophobic flat plates in high Reynolds number boundary layer flow―[Phys. Fluids 25, 025103 (2013)]. Physics of Fluids, 2013, 25, 079101. | 1.6 | 5 |
| 16 | Convective Mass Transfer From Submerged Superhydrophobic Surfaces. International Journal of Flow Control, 2013, 5, 79-88. | 0.4 | 10 |
| 17 | Convective Mass Transfer From Submerged Superhydrophobic Surfaces: Turbulent Flow. International Journal of Flow Control, 2013, 5, 143-152. | 0.4 | 6 |
| 18 | Salinity effects on the degree of hydrophobicity and longevity for superhydrophobic fibrous coatings. Journal of Applied Polymer Science, 2012, 124, 5021-5026. | 1.3 | 8 |

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| 19 | Sustainability of superhydrophobicity under pressure. Physics of Fluids, 2012, 24, . | 1.6 | 61 |
| 20 | Superhydrophobic surfaces: From the lotus leaf to the submarine. Comptes Rendus - Mecanique, 2012, 340, 18-34. | 2.1 | 167 |
| 21 | Scaling of statistics in wall-bounded turbulent flows. Comptes Rendus - Mecanique, 2012, 340, 420-433. | 2.1 | 8 |
| 22 | Influence of Flow on Longevity of Superhydrophobic Coatings. Langmuir, 2012, 28, 9759-9766. | 1.6 | 97 |
| 23 | Effects of hydrostatic pressure on the drag reduction of submerged aerogel-particle coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 399, 62-70. | 2.3 | 32 |
| 24 | Fabrication of superhydrophobic fiber coatings by DCâ€biased ACâ€electrospinning. Journal of Applied Polymer Science, 2012, 123, 1112-1119. | 1.3 | 36 |
| 25 | <i>In situ</i> , noninvasive characterization of superhydrophobic coatings. Review of Scientific Instruments, 2011, 82, 045109. | 0.6 | 44 |
| 26 | Effects of Outer Scales on the Peaks of Near-Wall Reynolds Stresses. , 2011, , . | | 1 |
| 27 | Turbulent boundary layers: is the wall falling or merely wobbling?. Acta Mechanica, 2011, 218, 309-318. | 1.1 | 8 |
| 28 | Modeling drag reduction and meniscus stability of superhydrophobic surfaces comprised of random roughness. Physics of Fluids, 2011, 23, . | 1.6 | 84 |
| 29 | Normal and cross-flow Reynolds stresses: differences between confined and semi-confined flows. Experiments in Fluids, 2010, 49, 213-223. | 1.1 | 16 |
| 30 | Kolmogorov scaling of turbulent flow in the vicinity of the wall. Physica D: Nonlinear Phenomena, 2010, 239, 1288-1295. | 1.3 | 7 |
| 31 | The Clut of Academic Publishing: A Call for a New Culture. Academic Questions, 2010, 23, 276-286. | 0.0 | 8 |
| 32 | Facets and Scope of Large-Scale Disasters. Natural Hazards Review, 2010, 11, 1-6. | 0.8 | 4 |
| 33 | Suppression of absolute instabilities in the flow inside a compliant tube. Communications in Numerical Methods in Engineering, 2009, 25, 505-531. | 1.3 | 7 |
| 34 | Near-wall behavior of turbulent wall-bounded flows. International Journal of Heat and Fluid Flow, 2009, 30, 993-1006. | 1.1 | 42 |
| 35 | Evidence of Nonlogarithmic Behavior of Turbulent Channel and Pipe Flow. AIAA Journal, 2009, 47, 535-541. | 1.5 | 14 |
| 36 | Flow Control and the Energy Crisis. International Journal of Flow Control, 2009, 1, 175-178. | 0.4 | 0 |

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| 37 | Flow in Compliant Tubes: Control and Stabilization by Multilayered Coatings. International Journal of Flow Control, 2009, 1, 199-211. | 0.4 | 2 |
| 38 | Near-Wall Behavior of Turbulent Wall-Bounded Flows. , 2008, , . | | 2 |
| 39 | Challenges in Modeling Liquid and Gas Flows in Micro/Nano Devices. Computational and Experimental Methods in Structures, 2008, , 1-36. | 0.2 | 0 |
| 40 | Tsunamis: manifestation and aftermath. , 2008, , 258-292. | | 15 |
| 41 | Curvature Law of the Wall for Swirling Axial Flows in Rotating Machinery. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 169-178. | 0.8 | 0 |
| 42 | The Taming of the Shrew: Why Is It so Difficult to Control Turbulence?. , 2007, , 1-24. | | 6 |
| 43 | Recent developments in scaling of wall-bounded flows. Progress in Aerospace Sciences, 2006, 42, 419-467. | 6.3 | 49 |
| 44 | Gas and Liquid Transport at the Microscale. Heat Transfer Engineering, 2006, 27, 13-29. | 1.2 | 44 |
| 45 | Structure of the Canonical Turbulent Wall-Bounded Flow. AIAA Journal, 2006, 44, 2500-2504. | 1.5 | 5 |
| 46 | Mean-Velocity Profile of Turbulent Boundary Layers Approaching Separation. AIAA Journal, 2006, 44, 2465-2474. | 1.5 | 18 |
| 47 | Liquids: The holy grail of microfluidic modeling. Physics of Fluids, 2005, 17, 100612. | 1.6 | 25 |
| 48 | Preface: Transport phenomena in micro- and nanodevices. Physics of Fluids, 2005, 17, 100501. | 1.6 | 1 |
| 49 | Structure of Turbulent Boundary Layers with Zero Pressure Gradient (invited). , 2005, , . | | 2 |
| 50 | COMPLIANT COATINGS: THE SIMPLER ALTERNATIVE. Lecture Notes Series, Institute for Mathematical Sciences, 2005, , 357-404. | 0.2 | 0 |
| 51 | Transport phenomena in microdevices. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2004, 84, 494-498. | 0.9 | 14 |
| 52 | Comments on "critical view on new results in micro-fluid mechanics― International Journal of Heat and Mass Transfer, 2003, 46, 3941-3945. | 2.5 | 36 |
| 53 | Debate Concerning the Mean-Velocity Profile of a Turbulent Boundary Layer. AIAA Journal, 2003, 41, 565-572. | 1.5 | 67 |
| 54 | Generalized Logarithmic Law and Its Consequences. AIAA Journal, 2003, 41, 40-48. | 1.5 | 63 |

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| 55 | Micropumps, microturbines, and flow physics in microdevices. , 2003, 5055, 242. | | 3 |
| 56 | Compliant coatings for drag reduction. Progress in Aerospace Sciences, 2002, 38, 77-99. | 6.3 | 79 |
| 57 | An analytical asymptotic solution to a conjugate heat transfer problem. International Journal of Heat and Mass Transfer, 2002, 45, 2485-2500. | 2.5 | 19 |
| 58 | Micro-Air-Vehicles: Can They be Controlled Better?. Journal of Aircraft, 2001, 38, 419-429. | 1.7 | 81 |
| 59 | Flow Control: The Future. Journal of Aircraft, 2001, 38, 402-418. | 1.7 | 121 |
| 60 | MEMS applications in turbulence and flow control. Progress in Aerospace Sciences, 1999, 35, 101-203. | 6.3 | 118 |
| 61 | The Fluid Mechanics of Microdevices—The Freeman Scholar Lecture. Journal of Fluids Engineering, Transactions of the ASME, 1999, 121, 5-33. | 0.8 | 1,111 |
| 62 | MEMS-based pressure and shear stress sensors for turbulent flows. Measurement Science and Technology, 1999, 10, 665-686. | 1.4 | 136 |
| 63 | Flow control: Current status and future prospects. Experimental Thermal and Fluid Science, 1998, 16, 157-164. | 1.5 | 1 |
| 64 | Compliant coatings: The simpler alternative. Experimental Thermal and Fluid Science, 1998, 16, 141-156. | 1.5 | 25 |
| 65 | New Approach to Constrained Shape Optimization Using Genetic Algorithms. AIAA Journal, 1998, 36, 51-61. | 1.5 | 21 |
| 66 | Frontiers of Flow Control. , 1998, , 109-153. | | 4 |
| 67 | Flow and load characteristics of microbearings with slip. Journal of Micromechanics and Microengineering, 1997, 7, 55-64. | 1.5 | 30 |
| 68 | Reflections on Fifty Years. Applied Mechanics Reviews, 1997, 50, T1-T2. | 4.5 | 1 |
| 69 | The Last Conundrum. Applied Mechanics Reviews, 1997, 50, i-ii. | 4.5 | 3 |
| 70 | Navier-Stokes Simulations of a Novel Viscous Pump. Journal of Fluids Engineering, Transactions of the ASME, 1997, 119, 372-382. | 0.8 | 54 |
| 71 | A Novel Pump for MEMS Applications. Journal of Fluids Engineering, Transactions of the ASME, 1996, 118, 624-627. | 0.8 | 109 |
| 72 | Fluid Mechanics in the Next Century. Applied Mechanics Reviews, 1996, 49, iii-iv. | 4.5 | 0 |

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| 73 | Compliant Coatings: A Decade of Progress. Applied Mechanics Reviews, 1996, 49, S147-S157. | 4.5 | 53 |
| 74 | Modern Developments in Flow Control. Applied Mechanics Reviews, 1996, 49, 365-379. | 4.5 | 245 |
| 75 | Questions in Fluid Mechanics: Stokes' Hypothesis for a Newtonian, Isotropic Fluid. Journal of Fluids Engineering, Transactions of the ASME, 1995, 117, 3-5. | 0.8 | 69 |
| 76 | Reynolds Number Effects in Wall-Bounded Turbulent Flows. Applied Mechanics Reviews, 1994, 47, 307-365. | 4.5 | 218 |
| 77 | Interactive control of turbulent boundary layers - A futuristic overview. AIAA Journal, 1994, 32, 1753-1765. | 1.5 | 105 |
| 78 | Splendor of fluids in motion. Progress in Aerospace Sciences, 1992, 29, 81-123. | 6.3 | 6 |
| 79 | Separation Control: Review. Journal of Fluids Engineering, Transactions of the ASME, 1991, 113, 5-30. | 0.8 | 310 |
| 80 | Flow Control by Suction. , 1990, , 357-360. | | 4 |
| 81 | Selective suction for controlling bursting events in a boundary layer. AIAA Journal, 1989, 27, 308-314. | 1.5 | 66 |
| 82 | The Art and Science of Flow Control. Lecture Notes in Engineering, 1989, , 211-290. | 0.1 | 5 |
| 83 | Visualization Techniques for Unsteady Flows: An Overview. Journal of Fluids Engineering, Transactions of the ASME, 1988, 110, 231-243. | 0.8 | 18 |
| 84 | Unsteady Separation on Lifting Surfaces. Applied Mechanics Reviews, 1987, 40, 441-453. | 4.5 | 23 |
| 85 | Simulation of large-eddy structures in a turbulent boundary layer. AIAA Journal, 1987, 25, 1207-1215. | 1.5 | 13 |
| 86 | A drag reduction method for turbulent boundary layers. , 1987, , . | | 10 |
| 87 | Boundary Layer Interactions With Compliant Coatings: An Overview. Applied Mechanics Reviews, 1986, 39, 511-524. | 4.5 | 62 |
| 88 | The Response of Elastic and Viscoelastic Surfaces to a Turbulent Boundary Layer. Journal of Applied Mechanics, Transactions ASME, 1986, 53, 206-212. | 1.1 | 57 |
| 89 | Coherent structures in a turbulent boundary layer. Part 1: Generation of â€~â€~artificial'' bursts. Physics of Fluids, 1986, 29, 2124. | 1.4 | 36 |
| 90 | The pitching delta wing. AIAA Journal, 1985, 23, 1660-1665. | 1.5 | 102 |

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| 91 | The Dynamics of Turbulent Spots. , 1985, , 123-155. | | 43 |
| 92 | On the interaction of compliant coatings with boundary-layer flows. Journal of Fluid Mechanics, 1984, 140, 257-280. | 1.4 | 123 |
| 93 | On the stability of the decelerating laminar boundary layer. Journal of Fluid Mechanics, 1984, 138, 297-323. | 1.4 | 27 |
| 94 | On the growth of turbulent regions in laminar boundary layers. Journal of Fluid Mechanics, 1981, 110, 73-95. | 1.4 | 205 |