

# Gary S Settles

## List of Publications by Year in descending order

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48  
papers

3,457  
citations

136950

32  
h-index

214800

47  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Schlieren and BOS velocimetry of a round turbulent helium jet in air. Optics and Lasers in Engineering, 2022, 156, 107104.	3.8	7
2	Qualitative and quantitative schlieren optical measurement of the human thermal plume. Indoor Air, 2020, 30, 757-766.	4.3	33
3	Smartphone schlieren and shadowgraph imaging. Optics and Lasers in Engineering, 2018, 104, 9-21.	3.8	16
4	Schlieren imaging: a powerful tool for atmospheric plasma diagnostic. EPJ Techniques and Instrumentation, 2018, 5, .	1.3	40
5	A review of recent developments in schlieren and shadowgraph techniques. Measurement Science and Technology, 2017, 28, 042001.	2.6	259
6	Design of a High-Throughput Chemical Trace Detection Portal That Samples the Aerodynamic Wake of a Walking Person. IEEE Sensors Journal, 2014, 14, 1852-1866.	4.7	5
7	Optical Diagnostics for Characterizing a Transitional Shear Layer over a Supersonic Cavity. AIAA Journal, 2013, 51, 2977-2982.	2.6	12
8	Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. IEEE Sensors Journal, 2013, 13, 1252-1258.	4.7	5
9	A comparison of three quantitative schlieren techniques. Optics and Lasers in Engineering, 2012, 50, 8-17.	3.8	172
10	The Internal Aerodynamics of Cargo Containers for Trace Chemical Sampling and Detection. IEEE Sensors Journal, 2011, 11, 1184-1193.	4.7	4
11	Seedless Velocimetry Measurements by Schlieren Image Velocimetry. AIAA Journal, 2011, 49, 611-620.	2.6	55
12	Schlieren imaging of loud sounds and weak shock waves in air near the limit of visibility. Shock Waves, 2010, 20, 9-17.	1.9	51
13	Natural-background-oriented schlieren imaging. Experiments in Fluids, 2010, 48, 59-68.	2.4	99
14	On the Use of Composite Charges to Determine Insensitive Explosive Material Properties at the Laboratory Scale. Propellants, Explosives, Pyrotechnics, 2010, 35, 452-460.	1.6	7
15	The fluid dynamics of canine olfaction: unique nasal airflow patterns as an explanation of macrosmia. Journal of the Royal Society Interface, 2010, 7, 933-943.	3.4	224
16	Can we reduce the spread of influenza in schools with face masks?. American Journal of Infection Control, 2010, 38, 676-677.	2.3	14
17	Development and Verification of a High-Fidelity Computational Fluid Dynamics Model of Canine Nasal Airflow. Journal of Biomechanical Engineering, 2009, 131, 091002.	1.3	45
18	A schlieren optical study of the human cough with and without wearing masks for aerosol infection control. Journal of the Royal Society Interface, 2009, 6, S727-36.	3.4	238

#	ARTICLE	IF	CITATIONS
19	Retroreflective shadowgraph technique for large-scale flow visualization. <i>Applied Optics</i> , 2009, 48, 4449.	2.1	57
20	Coughing and Aerosols. <i>New England Journal of Medicine</i> , 2008, 359, e19.	27.0	65
21	Reconstruction and Morphometric Analysis of the Nasal Airway of the Dog ( <i>Canis familiaris</i> ) and Implications Regarding Olfactory Airflow. <i>Anatomical Record</i> , 2007, 290, 1325-1340.	1.4	136
22	Optical measurement and scaling of blasts from gram-range explosive charges. <i>Shock Waves</i> , 2007, 17, 215-223.	1.9	68
23	FLUID MECHANICS AND HOMELAND SECURITY. <i>Annual Review of Fluid Mechanics</i> , 2006, 38, 87-110.	25.0	52
24	Schlieren "PIV" for turbulent flows. <i>Optics and Lasers in Engineering</i> , 2006, 44, 190-207.	3.8	99
25	A Computational and Experimental Investigation of the Human Thermal Plume. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 1251-1258.	1.5	140
26	Computational Study of the Wake and Contaminant Transport of a Walking Human. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 967-977.	1.5	56
27	Sniffers: Fluid-Dynamic Sampling for Olfactory Trace Detection in Nature and Homeland Security". <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 189-218.	1.5	94
28	Schlieren imaging of shock waves from a trumpet. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 3363-3367.	1.1	21
29	The Natural Sampling of Airborne Trace Signals from Explosives Concealed upon the Human Body. <i>Journal of Forensic Sciences</i> , 2001, 46, 1324-1331.	1.6	26
30	Effect of nozzle orientation on the gas dynamics of inert-gas laser cutting of mild steel. <i>Journal of Laser Applications</i> , 1997, 9, 269-277.	1.7	27
31	An experimental study of compressible turbulent mixing enhancement in swirling jets. <i>Journal of Fluid Mechanics</i> , 1997, 330, 271-305.	3.4	71
32	Surface pressure measurements in shock wave/boundary-layer interactions. <i>Journal of Mechanical Science and Technology</i> , 1997, 11, 164-172.	0.4	1
33	Effect of nozzle orientation on the gas dynamics of inert-gas laser cutting of mild steel. , 1996, , .		1
34	Supersonic and hypersonic shock/boundary-layer interaction database. <i>AIAA Journal</i> , 1994, 32, 1377-1383.	2.6	161
35	Inception length to a fully developed, fin-generated, shock-wave, boundary-layer interaction. <i>AIAA Journal</i> , 1991, 29, 758-762.	2.6	35
36	Upstream-influence scaling of sharp fin interactions. <i>AIAA Journal</i> , 1991, 29, 1180-1181.	2.6	12

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37	Skin friction measurements by laser interferometry in swept shock/boundary-layer interactions. AIAA Journal, 1990, 28, 133-139.	2.6	38
38	Modern developments in flow visualization. AIAA Journal, 1986, 24, 1313-1323.	2.6	44
39	Reply by Authors to S.M. Bogdonoff and S. Wang. AIAA Journal, 1986, 24, 541-542.	2.6	1
40	Similarity of quasiconical shock wave/turbulent boundary-layer interactions. AIAA Journal, 1986, 24, 47-53.	2.6	57
41	Conical similarity of shock/boundary-layer interactions generated by swept and unswept fins. AIAA Journal, 1985, 23, 1021-1027.	2.6	105
42	Cylindrical and conical flow regimes of three-dimensional shock/boundary-layer interactions. AIAA Journal, 1984, 22, 194-200.	2.6	78
43	Flow visualization methods for separated three-dimensional shock wave/turbulent boundary-layer interactions. AIAA Journal, 1983, 21, 390-397.	2.6	73
44	Scaling of Two- and Three-Dimensional Shock/Turbulent Boundary-Layer Interactions at Compression Corners. AIAA Journal, 1982, 20, 782-789.	2.6	71
45	Investigation of Three-Dimensional Shock/Boundary-Layer Interactions at Swept Compression Corners. AIAA Journal, 1980, 18, 779-785.	2.6	74
46	Detailed Study of Attached and Separated Compression Corner Flowfields in High Reynolds Number Supersonic Flow. AIAA Journal, 1979, 17, 579-585.	2.6	269
47	Details of a Shock-Separated Turbulent Boundary Layer at a Compression Corner. AIAA Journal, 1976, 14, 1709-1715.	2.6	137
48	Incipient Separation of a Supersonic Turbulent Boundary Layer at High Reynolds Numbers. AIAA Journal, 1976, 14, 50-56.	2.6	87