

Antonio L SÃ¡nchez

List of Publications by Year in descending order

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61
papers

1,257
citations

471509

17
h-index

377865

34
g-index

61
all docs

61
docs citations

61
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in understanding of flammability characteristics of hydrogen. <i>Progress in Energy and Combustion Science</i> , 2014, 41, 1-55.	31.2	318
2	A simple one-step chemistry model for partially premixed hydrocarbon combustion. <i>Combustion and Flame</i> , 2006, 147, 32-38.	5.2	145
3	The role of separation of scales in the description of spray combustion. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1549-1577.	3.9	73
4	One-step reduced kinetics for lean hydrogen-air deflagration. <i>Combustion and Flame</i> , 2009, 156, 985-996.	5.2	68
5	Ignition, Liftoff, and Extinction of Gaseous Diffusion Flames. <i>Annual Review of Fluid Mechanics</i> , 2015, 47, 293-314.	25.0	53
6	The chemistry involved in the third explosion limit of H ₂ -O ₂ mixtures. <i>Combustion and Flame</i> , 2014, 161, 111-117.	5.2	45
7	On the bulk motion of the cerebrospinal fluid in the spinal canal. <i>Journal of Fluid Mechanics</i> , 2018, 841, 203-227.	3.4	40
8	The hydrogen-air burning rate near the lean flammability limit. <i>Combustion Theory and Modelling</i> , 2009, 13, 741-761.	1.9	32
9	Diffusion-flame ignition by shock-wave impingement on a supersonic mixing layer. <i>Journal of Fluid Mechanics</i> , 2015, 784, 74-108.	3.4	30
10	Observed dependence of characteristics of liquid-pool fires on swirl magnitude. <i>Combustion and Flame</i> , 2019, 205, 1-6.	5.2	26
11	Dynamics of thermal ignition of spray flames in mixing layers. <i>Journal of Fluid Mechanics</i> , 2013, 734, 387-423.	3.4	24
12	Diffusion-flame flickering as a hydrodynamic global mode. <i>Journal of Fluid Mechanics</i> , 2016, 798, 997-1014.	3.4	23
13	The large-activation-energy analysis of extinction of counterflow diffusion flames with non-unity Lewis numbers of the fuel. <i>Combustion and Flame</i> , 2017, 175, 91-106.	5.2	21
14	On the dispersion of a drug delivered intrathecally in the spinal canal. <i>Journal of Fluid Mechanics</i> , 2019, 861, 679-720.	3.4	21
15	Influences of stoichiometry on steadily propagating triple flames in counterflows. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1971-1977.	3.9	20
16	A multipurpose reduced chemical-kinetic mechanism for methanol combustion. <i>Combustion Theory and Modelling</i> , 2016, 20, 613-631.	1.9	19
17	On the critical conditions for pool-fire puffing. <i>Combustion and Flame</i> , 2018, 192, 426-438.	5.2	19
18	Aerodynamics of planar counterflowing jets. <i>Journal of Fluid Mechanics</i> , 2017, 821, 1-30.	3.4	16

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19	Heat propagation from a concentrated external energy source in a gas. <i>Journal of Fluid Mechanics</i> , 2003, 491, 379-410.	3.4	15
20	A one-step reduced mechanism for near-limit hydrogen combustion with general stoichiometry. <i>Combustion and Flame</i> , 2019, 208, 1-4.	5.2	15
21	Laminar mixing in diluted and undiluted fuel jets upstream from lifted flames. <i>Combustion and Flame</i> , 2002, 128, 199-210.	5.2	14
22	Regimes of Spray Vaporization and Combustion in Counterflow Configurations. <i>Combustion Science and Technology</i> , 2015, 187, 103-131.	2.3	14
23	Subject-Specific Studies of CSF Bulk Flow Patterns in the Spinal Canal: Implications for the Dispersion of Solute Particles in Intrathecal Drug Delivery. <i>American Journal of Neuroradiology</i> , 2019, 40, 1242-1249.	2.4	13
24	The quasi-cylindrical description of submerged laminar swirling jets. <i>Physics of Fluids</i> , 2004, 16, 848-851.	4.0	11
25	Coupling-function formulation for monodisperse spray diffusion flames with infinitely fast chemistry. <i>Fuel Processing Technology</i> , 2013, 107, 81-92.	7.2	11
26	Linear theory for the interaction of small-scale turbulence with overdriven detonations. <i>Physics of Fluids</i> , 2014, 26, 116101.	4.0	11
27	Aerodynamics of axisymmetric counterflowing jets. <i>Combustion and Flame</i> , 2017, 177, 137-143.	5.2	11
28	Fronts in high-temperature laminar gas jets. <i>Journal of Fluid Mechanics</i> , 2006, 547, 257.	3.4	10
29	A model for the oscillatory flow in the cerebral aqueduct. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	3.4	9
30	Numerical description of axisymmetric blue whirls over liquid-fuel pools. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2041-2048.	3.9	9
31	Modelling and direct numerical simulation of flow and solute dispersion in the spinal subarachnoid space. <i>Applied Mathematical Modelling</i> , 2021, 94, 516-533.	4.2	9
32	A one-dimensional model for the pulsating flow of cerebrospinal fluid in the spinal canal. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	3.4	9
33	A novel formulation for unsteady counterflow flames using a thermal-conductivity-weighted coordinate. <i>Combustion Theory and Modelling</i> , 2018, 22, 185-201.	1.9	8
34	Vortex breakdown in variable-density gaseous swirling jets. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	7
35	Viscoacoustic squeeze-film force on a rigid disk undergoing small axial oscillations. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	7
36	The Coupling of Motion and Conductive Heating of a Gas by Localized Energy Sources. <i>SIAM Journal on Applied Mathematics</i> , 2003, 63, 937-961.	1.8	6

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37	Accuracies of reduced mechanisms for predicting acoustic combustion instabilities. <i>Combustion and Flame</i> , 2019, 209, 405-407.	5.2	6
38	Effects of differential diffusion on nonpremixed-flame temperature. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1757-1766.	3.9	6
39	Taylor-diffusion-controlled combustion in ducts. <i>Combustion Theory and Modelling</i> , 2020, 24, 1054-1069.	1.9	6
40	The slowly reacting mode of combustion of gaseous mixtures in spherical vessels. Part 1: Transient analysis and explosion limits. <i>Combustion Theory and Modelling</i> , 2016, 20, 1010-1028.	1.9	5
41	The acoustic response of Burke-Schumann counterflow flames. <i>Combustion and Flame</i> , 2018, 192, 25-34.	5.2	5
42	A model for the constant-density boundary layer surrounding fire whirls. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	3.4	5
43	Lubrication analysis of peristaltic motion in non-axisymmetric annular tubes. <i>Journal of Fluid Mechanics</i> , 2021, 921, .	3.4	5
44	Non-Boussinesq stability analysis of natural-convection gaseous flow on inclined hot plates. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 949-957.	4.8	4
45	Unexpected performance of systematically derived one-step chemistry in describing rich hydrogen-air pulsating flames. <i>Combustion and Flame</i> , 2022, 241, 112068.	5.2	4
46	On the heat transferred to the air surrounding a semi-infinite inclined hot plate. <i>Journal of Fluid Mechanics</i> , 2013, 732, 304-315.	3.4	3
47	The slowly reacting mode of combustion of gaseous mixtures in spherical vessels. Part 2: Buoyancy-induced motion and its effect on the explosion limits. <i>Combustion Theory and Modelling</i> , 2016, 20, 1029-1045.	1.9	3
48	Thermal explosions in spherical vessels at large Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1042-1053.	4.8	3
49	Explanations of influences of differential diffusion on flame-temperature variations in usual and inverse jet flames. <i>Combustion and Flame</i> , 2019, 200, 262-264.	5.2	3
50	Swirling flow induced by jets and plumes. <i>Acta Mechanica</i> , 2019, 230, 2221-2231.	2.1	3
51	Hysteresis in the Vaporization-Controlled Inertial Regime of Nonpremixed Counterflow Spray Combustion. <i>Combustion Science and Technology</i> , 2020, 192, 433-456.	2.3	3
52	Transmantle Pressure Computed from MR Imaging Measurements of Aqueduct Flow and Dimensions. <i>American Journal of Neuroradiology</i> , 2021, 42, 1815-1821.	2.4	3
53	Acoustic Response of Near-Equilibrium Diffusion Flames with Large Activation Energies. <i>AIAA Journal</i> , 2019, 57, 2933-2945.	2.6	2
54	Stability of laminar flames on upper and lower inclined fuel surfaces. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4515-4523.	3.9	2

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55	Residual streaming flows in buoyancy-driven cross-shore exchange. Journal of Fluid Mechanics, 2021, 920, .	3.4	2
56	Large-activation-energy analysis of gaseous reacting flow in pipes. Combustion and Flame, 2017, 178, 217-224.	5.2	1
57	Aerodynamics of Tsuji Burners with Augmented Fuel Injection. Combustion Science and Technology, 0, , 1-12.	2.3	1
58	Conductive Heating of a Confined Gas. SIAM Journal on Applied Mathematics, 2018, 78, 1913-1930.	1.8	0
59	Acoustic Response of Near-Equilibrium Diffusion Flames with Large Activation Energies. , 2019, , .		0
60	A Tsuji burner in a counterflow. Combustion Theory and Modelling, 0, , 1-17.	1.9	0
61	A three-step reduced mechanism for MILD combustion. Combustion Science and Technology, 2023, 195, 3875-3881.	2.3	0