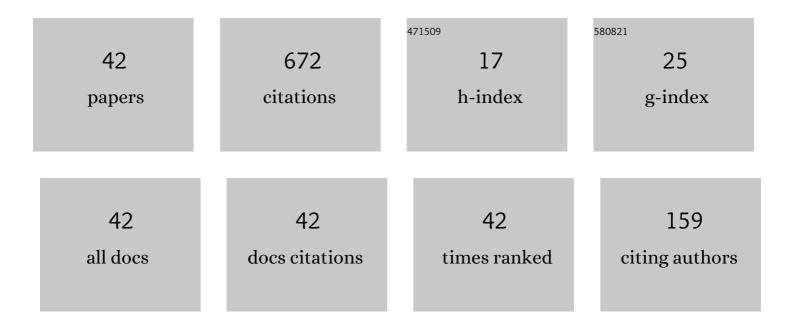
Subrata Bhattacharjee

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Opposed-flow flame spread in microgravity-theoretical prediction of spread rate and flammability map. Proceedings of the Combustion Institute, 2005, 30, 2279-2286.	3.9	51
2	Radiation-controlled, opposed-flow flame spread in a microgravity environment. Proceedings of the Combustion Institute, 1991, 23, 1627-1633.	0.3	42
3	The behavior of flames spreading over thin solids in microgravity. Combustion and Flame, 1995, 100, 71-84.	5.2	39
4	Determination of the spread rate in opposed-flow flame spread over thick solid fuels in the thermal regime. Proceedings of the Combustion Institute, 1996, 26, 1477-1485.	0.3	38
5	Inherently unsteady flame spread to extinction over thick fuels in microgravity. Proceedings of the Combustion Institute, 1998, 27, 2515-2524.	0.3	37
6	Structure of downward spreading flames: a comparison of numerical simulation, experimental results and a simplified parabolic theory. Combustion Theory and Modelling, 2004, 8, 23-39.	1.9	35
7	Effect of radiation loss on flame spread over a thin PMMA sheet in microgravity. Proceedings of the Combustion Institute, 2002, 29, 2579-2586.	3.9	34
8	Opposed-flow flame spread: A comparison of microgravity and normal gravity experiments to establish the thermal regime. Fire Safety Journal, 2016, 79, 111-118.	3.1	33
9	Radiative, thermal, and kinetic regimes of opposed-flow flame spread: A comparison between experiment and theory. Proceedings of the Combustion Institute, 2017, 36, 2963-2969.	3.9	32
10	Quiescent flame spread over thick fuels in microgravity. Proceedings of the Combustion Institute, 1996, 26, 1335-1343.	0.3	29
11	A Comparison of the Roles Played by Natural and Forced Convection in Opposed-Flow Flame Spreading. Combustion Science and Technology, 1992, 83, 233-244.	2.3	28
12	A Correlation for an Effective Flow Velocity for Capturing the Boundary Layer Effect in Opposed-Flow Flame Spread over Thin Fuels. Combustion Science and Technology, 2014, 186, 975-987.	2.3	23
13	Implications of Spread Rate and Temperature Measurements in Flame Spread Over a Thin Fuel in a Quiescent, Microgravity, Space-Based Environment. Combustion Science and Technology, 1993, 91, 225-242.	2.3	22
14	Predictions of a critical fuel thickness for flame extinction in a quiescent microgravity environment. Combustion and Flame, 2003, 132, 523-532.	5.2	22
15	The critical flow velocity for radiative extinction in opposed-flow flame spread in a microgravity environment: A comparison of experimental, computational, and theoretical results. Combustion and Flame, 2016, 163, 472-477.	5.2	19
16	A simplified theory for de ris flame over thick and thin fuel beds. Combustion and Flame, 1996, 104, 66-80.	5.2	18
17	Experimental validation of a correlation capturing the boundary layer effect on spread rate in the kinetic regime of opposed-flow flame spread. Proceedings of the Combustion Institute, 2015, 35, 2631-2638.	3.9	18
18	Correlation of Burning Rate with Spread Rate for Downward Flame Spread Over PMMA. Fire Technology, 2018, 54, 613-624.	3.0	17

#	Article	IF	CITATIONS
19	A comparison of theoretical and experimental results in flame spread over thin condensed fuels in a quiescent, microgravity environment. Proceedings of the Combustion Institute, 1992, 24, 1669-1676.	0.3	15
20	A comparison of numerical and analytical solution of the creeping flame spread over thermally thin material. Combustion and Flame, 1993, 93, 434-444.	5.2	14
21	Temperature and CO2 fields of a downward spreading flame over thin cellulose: A comparison of experimental and computational results. Proceedings of the Combustion Institute, 2015, 35, 2665-2672.	3.9	14
22	A novel apparatus for flame spread study. Proceedings of the Combustion Institute, 2013, 34, 2513-2521.	3.9	13
23	Measurement of instantaneous flame spread rate over solid fuels using image analysis. Fire Safety Journal, 2017, 91, 123-129.	3.1	13
24	Influence of edge propagation on downward flame spread over three-dimensional PMMA samples. Proceedings of the Combustion Institute, 2019, 37, 3203-3209.	3.9	13
25	Boundary Layer Effect on Opposed-Flow Flame Spread and Flame Length over Thin Polymethyl-Methacrylate in Microgravity. Combustion Science and Technology, 2018, 190, 535-549.	2.3	12
26	The Effect of Boundary Layer on Blow-Off Extinction in Opposed-Flow Flame Spread over Thin Cellulose: Experiments and a Simplified Analysis. Fire Technology, 2017, 53, 967-982.	3.0	8
27	A numerical investigation of radiation feedback in different regimes of opposed flow flame spread. International Journal of Heat and Mass Transfer, 2020, 150, 119358.	4.8	8
28	Solving Chemical Equilibrium Problems Online. Journal of Chemical Education, 2010, 87, 456-456.	2.3	4
29	Radiation-kinetics interactions: A comparison of opposed-flow flame spread in a low-velocity microgravity and low-pressure downward environments. Proceedings of the Combustion Institute, 2021, 38, 4795-4803.	3.9	4
30	A Java Based Web Application for Performing Chemical Equilibrium Analysis in Thermodynamics Courses. , 2006, , .		2
31	Property evaluation in The Expert System for Thermodynamics ("TESTâ€) web application. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 343-352.	1.6	2
32	Radiation signature in opposed-flow flame spread. Progress in Computational Fluid Dynamics, 2012, 12, 293.	0.2	2
33	Two different approaches for creating a prescribed opposed-flow velocity field for flame spread experiments. EPJ Web of Conferences, 2015, 92, 02011.	0.3	2
34	Comparison of flame spread and blow-off extinction over vertical and horizontal PMMA samples. Mechanical Engineering Journal, 2016, 3, 16-00277-16-00277.	0.4	2
35	Thermal radiation measurements of downward spreading flames. Applied Thermal Engineering, 2019, 160, 114022.	6.0	2
36	Behavior of Flame Spread on Thin PMMA near Extinction Limit at Low Oxygen Level. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Ph 9-Ph 13.	0.2	2

#	Article	IF	CITATIONS
37	A response to the comments by M. A. Delichatsios on "A comparison of numerical and analytical solution of the creeping flame spread over thermally thin material― Combustion and Flame, 1993, 95, 340.	5.2	1
38	IGE Model: An Extension of the Ideal Gas Model to Include Chemical Composition as Part of the Equilibrium State. Journal of Thermodynamics, 2012, 2012, 1-18.	0.8	1
39	Burn angle in forced and natural convection: a simplified scaling approach. Combustion Theory and Modelling, 2019, 23, 956-968.	1.9	1
40	Effect of Ambient Gas on Flammability Limit of Flat Materials in Microgravity. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Ph_1-Ph_6.	0.2	0
41	Prediction of Flame Length in Opposed-Flow Flame Spread: Global Similarity Analysis and Experiments. Combustion Science and Technology, 0, , 1-15.	2.3	Ο
42	OS24-1 The Effect of Boundary Layer on Blow-Off Extinction in Opposed-Flow Flame Spread: Results of Experiments and Simplified Analysis(invited,Scale modeling on solid combustion,OS24 Scale) Tj ETQq0 0 0 rgBT	/Oyerlock	10 ₀ Tf 50 542

Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 289.