Song Guowen

List of Publications by Year
in descending order

57 papers	1,813 citations	304743 22 h-index	289244 40 g-index
64 all docs	64 docs citations	64 times ranked	614 citing authors

#	Article	IF	Citations
1	Clothing Air Gap Layers and Thermal Protective Performance in Single Layer Garment. Journal of Industrial Textiles, 2007, 36, 193-205.	2.4	157
2	Modeling the Thermal Protective Performance of Heat Resistant Garments in Flash Fire Exposures. Textile Reseach Journal, 2004, 74, 1033-1040.	2.2	94
3	Characterization of textile fabrics under various thermal exposures. Textile Reseach Journal, 2013, 83, 1005-1019.	2.2	87
4	Numerical Simulations of Heat and Moisture Transport in Thermal Protective Clothing Under Flash Fire Conditions. International Journal of Occupational Safety and Ergonomics, 2008, 14, 89-106.	1.9	86
5	A novel personal cooling system (PCS) incorporated with phase change materials (PCMs) and ventilation fans: An investigation on its cooling efficiency. Journal of Thermal Biology, 2015, 52, 137-146.	2.5	72
6	Thermal sensors for performance evaluation of protective clothing against heat and fire: a review. Textile Reseach Journal, 2015, 85, 101-112.	2.2	55
7	The effect of air gaps in moist protective clothing on protection from heat and flame. Journal of Fire Sciences, 2013, 31, 99-111.	2.0	51
8	A novel approach for fit analysis of thermal protective clothing using three-dimensional body scanning. Applied Ergonomics, 2014, 45, 1439-1446.	3.1	48
9	Clothing resultant thermal insulation determined on a movable thermal manikin. Part I: effects of wind and body movement on total insulation. International Journal of Biometeorology, 2015, 59, 1475-1486.	3.0	47
10	Clothing resultant thermal insulation determined on a movable thermal manikin. Part II: effects of wind and body movement on local insulation. International Journal of Biometeorology, 2015, 59, 1487-1498.	3.0	47
11	Effects of moisture content and clothing fit on clothing apparent â€˜wetâ€™ thermal insulation: A thermal manikin study. Textile Reseach Journal, 2016, 86, 57-63.	2.2	44
12	A new protocol to characterize thermal protective performance of fabrics against hot liquid splash. Experimental Thermal and Fluid Science, 2013, 46, 37-45.	2.7	35
13	Heat transfer in a cylinder sheathed by flame-resistant fabrics exposed to convective and radiant heat flux. Fire Safety Journal, 2008, 43, 401-409.	3.1	33
14	Effects of clothing size and air ventilation rate on cooling performance of air ventilation clothing in a warm condition. International Journal of Occupational Safety and Ergonomics, 2022, 28, 354-363.	1.9	29
15	An exploration of enhancing thermal protective clothing performance by incorporating aerogel and phase change materials. Fire and Materials, 2017, 41, 953-963.	2.0	28
16	Performance of immersion suits: A literature review. Journal of Industrial Textiles, 2014, 44, 288-306.	2.4	24
17	Modeling steam heat transfer in thermal protective clothing under hot steam exposure. International Journal of Heat and Mass Transfer, 2018, 120, 818-829.	4.8	24
18	Integrating a human thermoregulatory model with a clothing model to predict core and skin temperatures. Applied Ergonomics, 2017, 61, 168-177.	3.1	23

#	Article	IF	Citations
19	Effect of sweating set rate on clothing real evaporative resistance determined on a sweating thermal manikin in a so-called isothermal condition (T manikinâ€‰=â€‰T aâ€‰=â€‰T r). International Journal of Biometeorology, 2016, 60, 481-488.	3.0	21
20	A novel protocol to characterize the thermal protective performance of fabrics in hot-water exposure. Journal of Industrial Textiles, 2016, 46, 279-291.	2.4	21
21	Analysing Performance of Protective Clothing upon Hot Liquid Exposure Using Instrumented Spray Manikin. Annals of Occupational Hygiene, 2013, 57, 793-804.	1.9	19
22	Characterization of Thermal Protective Clothing under Hot Water and Pressurized Steam Exposure. AATCC Journal of Research, 2014, 1, 7-16.	0.6	19
23	Characterizing thermal protective fabrics of firefightersâ€™ clothing in hot surface contact. Journal of Industrial Textiles, 2018, 47, 622-639.	2.4	19
24	An Empirical Analysis of Thermal Protective Performance of Fabrics Used in Protective Clothing. Annals of Occupational Hygiene, 2014, 58, 1065-77.	1.9	18
25	The effect of moisture content within multilayer protective clothing on protection from radiation and steam. International Journal of Occupational Safety and Ergonomics, 2018, 24, 190-199.	1.9	18
26	Numerical study of the convective heat transfer coefficient of the hand and the effect of wind. Building and Environment, 2021, 188, 107482.	6.9	18
27	Effect of an air gap on the heat transfer of protective materials upon hot liquid splashes. Textile Reseach Journal, 2013, 83, 1156-1169.	2.2	17
28	Characterizing factors affecting the hot liquid penetration performance of fabrics for protective clothing. Textile Reseach Journal, 2014, 84, 174-186.	2.2	16
29	Effect of moisture content on thermal protective performance of fabric assemblies by a stored energy approach under flash exposure. Textile Reseach Journal, 2018, 88, 1847-1861.	2.2	16
30	An investigation of the assessment of fabric drape using three-dimensional body scanning. Journal of the Textile Institute, 2010, 101, 324-335.	1.9	14
31	The impact of air gap on thermal performance of protective clothing against hot water spray. Textile Reseach Journal, 2015, 85, 709-721.	2.2	14
32	Developing a test device to analyze heat transfer through firefighter protective clothing. International Journal of Thermal Sciences, 2019, 138, 1-11.	4.9	14
33	A 3D multi-segment thermoregulation model of the hand with realistic anatomy: Development, validation, and parametric analysis. Building and Environment, 2021, 201, 107964.	6.9	14
34	The effects of moisture on the thermal protective performance of firefighter protective clothing under medium intensity radiant exposure. Textile Reseach Journal, 2018, 88, 847-862.	2.2	13
35	Characterization and Modeling of Thermal Protective and Thermo-Physiological Comfort Performance of Polymeric Textile Materialsâ€"A Review. Materials, 2021, 14, 2397.	2.9	12
36	Performance Study of Protective Clothing against Hot Water Splashes: from Bench Scale Test to Instrumented Manikin Test. Annals of Occupational Hygiene, 2014, 59, 232-42.	1.9	11

#	Article	IF	Citations
37	Effect of compression on thermal protection of firefighting protective clothing under flame exposure. Fire and Materials, 2019, 43, 802-810.	2.0	11
38	Laboratory Evaluation of Thermal Protective Clothing Performance Upon Hot Liquid Splash. Annals of Occupational Hygiene, 2013, 57, 805-22.	1.9	10
39	Thermal Performance Assessment of Heat Resistant Fabrics Based on a New Thermal Wave Model of Skin Heat Transfer. International Journal of Occupational Safety and Ergonomics, 2006, 12, 43-51.	1.9	9
40	Assessment of thermal comfort of nanosilver-treated functional sportswear fabrics using a dynamic thermal model with human/clothing/environmental factors. Textile Reseach Journal, 2018, 88, 413-425.	2.2	9
41	Influence of Transport Properties of Laminated Membrane-fabric on Thermal Protective Performance Against Steam Hazard. Fibers and Polymers, 2019, 20, 2433-2442.	2.1	9
42	Effects of microencapsulated phase change materials on the thermal behavior of multilayer thermal protective clothing. Journal of the Textile Institute, 2021, 112, 1004-1013.	1.9	9
43	Using Artificial Neural Network Modeling to Analyze the Thermal Protective and Thermo-Physiological Comfort Performance of Textile Fabrics Used in Oilfield Workersâ€™ Clothing. International Journal of Environmental Research and Public Health, 2021, 18, 6991.	2.6	9
44	Assessing the performance of a conceptual tight-fitting body mapping sportswear (BMS) kit in a warm dry environment. Fibers and Polymers, 2016, 17, 151-159.	2.1	8
45	Characterizing Fabrics in Firefighters' Protective Clothing: Hot Water Immersion with Compression. AATCC Journal of Research, 2016, 3, 8-15.	0.6	8
46	Characterizing the Tensile Strength of the Fabrics Used in Firefightersâ€™ Bunker Gear under Radiant Heat Exposure. Polymers, 2022, 14, 296.	4.5	7
47	The effect of moisture and air gap on the thermal protective performance of fabric assemblies used by wildland firefighters. Journal of the Textile Institute, 0, , 1-7.	1.9	6
48	What We Are Learning from COVID-19 for Respiratory Protection: Contemporary and Emerging Issues. Polymers, 2021, 13, 4165.	4.5	5
49	Modeling of hot water and steam protective performance of fabrics used in Firefighters' clothing. Fire and Materials, 2022, 46, 463-475.	2.0	3
50	Development of a numerical model to predict physiological strain of firefighter in fire hazard. Scientific Reports, 2018, 8, 3628.	3.3	2
51	Effect of Compression on Contact Heat Transfer in Thermal Protective Clothing Under Different Moisture Contents. Clothing and Textiles Research Journal, 2020, 38, 19-31.	3.4	2
52	Characterization and modeling of thermal protective fabrics under Molotov cocktail exposure. Journal of Industrial Textiles, 0, , 152808372098497.	2.4	2
53	Analysis of Physical and Thermal Comfort Properties of Chemical Protective Clothing. , 2012, , 48-73.		1
54	Fabrics for heat and flame protection. , 2019, , 265-299.		0

#	Article	IF	Citations
55	Characterization and empirical analysis of hot water immersion with compression protective performance of fabrics used in firefightersâ€™ clothing. Textile Reseach Journal, 2021, 91, 508-522.	2.2	0
56	Analysis of Physical and Thermal Comfort Properties of Chemical Protective Clothing. , 2012, , 1-26.		0
57	Characterizing Steam Penetration through Thermal Protective Fabric Materials. Textiles, 2022, 2, 16-28.	4.1	0