

# Yong-gang Yu

## List of Publications by Year in descending order

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52  
papers

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citations

933447

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1125743

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52  
docs citations

52  
times ranked

73  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of a muzzle multiphase flow field using two underwater launch methods. Defence Technology, 2022, 18, 1454-1469.	4.2	7
2	Effects of high-speed spin on the reacting flow of drag reduction equipment under rapid depressurization. Applied Thermal Engineering, 2022, 203, 117856.	6.0	1
3	Groove structure on the drainage characteristics of the gas curtain. Ocean Engineering, 2022, 243, 110280.	4.3	4
4	Study on a new method for generating a gas curtain in the gas-curtain launching. AIP Advances, 2022, 12, 025101.	1.3	1
5	Analysis of the Propulsion Performance and Internal Flow Field of an Underwater Launcher. Applied Sciences (Switzerland), 2022, 12, 5443.	2.5	1
6	Experimental and numerical research on a novel underwater launching method with high efficiency and low resistance. AIP Advances, 2021, 11, 025212.	1.3	2
7	Unsteady flow of igniter combustion-gas heating base bleed propellant by convection. AIP Advances, 2021, 11, 085208.	1.3	0
8	Characteristics of the Reacting Flow for the Base-Bleed Projectile under Dual Stress. Propellants, Explosives, Pyrotechnics, 2021, 46, 1887-1901.	1.6	0
9	Effect of injection pressure on the plasma-liquid interaction in a stepped-wall liquid chamber. International Journal of Heat and Mass Transfer, 2020, 149, 119156.	4.8	4
10	Plasma-Liquid Interface Manipulated by Chamber Structure: An Experimental and Theoretical Approach. ACS Applied Materials & Interfaces, 2020, 12, 44238-44247.	8.0	4
11	Coupled combustion characteristics of the base-bleed propellant and the igniter under transient depressurization based on detailed chemical kinetics. Applied Thermal Engineering, 2019, 163, 114348.	6.0	8
12	Enhancing the penetration stability of plasma jet in liquid by improving the chamber structure. Current Applied Physics, 2019, 19, 968-977.	2.4	4
13	Coupling characteristics of combustion-gas flows generated by two energetic materials in base bleed unit under rapid depressurization. Applied Thermal Engineering, 2019, 148, 502-515.	6.0	15
14	Effects of Charge Size on Slow Cook-Off Characteristics of AP/HTPB Composite Propellant in Base Bleed Unit. Propellants, Explosives, Pyrotechnics, 2018, 43, 404-412.	1.6	13
15	Expansion characteristics of a plasma jet in the stepped-wall liquid chamber. AIP Advances, 2018, 8, .	1.3	3
16	Study on Time-frequency Characteristics of Pressure Oscillations in a Bulk-loaded Liquid Gun. Propellants, Explosives, Pyrotechnics, 2018, 43, 1129-1138.	1.6	2
17	Numerical analysis of the influence of water/air medium on the muzzle flow field characteristics of machine gun. AIP Advances, 2018, 8, .	1.3	6
18	Numerical Models for Interactions of Ablating-Capillary Plasma With Air and Bulk-Loaded Liquid. IEEE Transactions on Plasma Science, 2018, 46, 3065-3074.	1.3	5

#	ARTICLE	IF	CITATIONS
19	Unsteady chemical kinetics behavior of AP/HTPB propellant with micro-scale model. <i>Combustion Science and Technology</i> , 2018, 190, 2164-2187.	2.3	7
20	Study on Combustion Characteristics and Propelling Projectile Motion Process of Bulk-Loaded Liquid Propellant. <i>Journal of Energetic Materials</i> , 2017, 35, 346-362.	2.0	0
21	Study on interaction characteristics between multi gas jets and water during the underwater launching process. <i>Experimental Thermal and Fluid Science</i> , 2017, 83, 200-206.	2.7	19
22	Numerical Studies on Chemical Non-Equilibrium Flow of the Base-Bleed Unit Wake. <i>Combustion Science and Technology</i> , 2017, 189, 1416-1439.	2.3	3
23	Study on three-dimensional expansion characteristics of four wall combustion-gas jets in confined liquid space. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 341-355.	3.4	5
24	Study on the gas-curtain generation characteristics by the multiple gas jets in a liquid-filled tube. <i>Applied Ocean Research</i> , 2017, 64, 249-257.	4.1	8
25	Three-Dimensional Simulation of Base Bleed Unit with AP/HTPB Propellant in Fast Cook-off Conditions. <i>Journal of Energetic Materials</i> , 2017, 35, 265-275.	2.0	11
26	Numerical Simulation of Quenched Combustion Model for AP/HTPB Propellant under Transient Depressurization. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 1085-1094.	1.6	12
27	Numerical and experimental analyses of the characteristics of burning jets of base bleed ignited in the atmospheric environment. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 1141-1158.	2.1	9
28	Flow structure of conical distributed multiple gas jets injected into a water chamber. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1683-1691.	1.5	7
29	Numerical Study on Wake Flow Field Characteristic of the Base-Bleed Unit under Fast Depressurization Process. <i>Journal of Energetic Materials</i> , 2017, 35, 213-232.	2.0	1
30	Expansion characteristics of multiple wall jets in cylindrical observation chamber. <i>Applied Thermal Engineering</i> , 2017, 113, 1396-1409.	6.0	11
31	Measurement and Calculation of the Expansion Parameters of Pulsed Plasma Jet in Air. , 2017, , .		0
32	The interaction between multiple high pressure combustion gas jets and water in a water-filled vessel. <i>Applied Ocean Research</i> , 2016, 61, 175-182.	4.1	10
33	An improvement of the base bleed unit on base drag reduction and heat energy addition as well as mass addition. <i>Applied Thermal Engineering</i> , 2016, 109, 238-250.	6.0	11
34	Physical characteristics on high-pressure combustion and propelling process of bulk-loaded energetic liquid. <i>Applied Thermal Engineering</i> , 2016, 98, 1070-1079.	6.0	10
35	Study on the influences of interaction behaviors between multiple combustion-gas jets on expansion characteristics of Taylor cavities. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 720-731.	3.4	8
36	Experimental Study of Transient Combustion Characteristics of AP/HTPB Base Bleed Propellant Under Rapid Pressure Drop. <i>Combustion Science and Technology</i> , 2015, 187, 445-457.	2.3	17

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37	Study on the effect of distance between the two nozzle holes on interaction of high pressure combustion-gas jets with liquid. <i>Energy Conversion and Management</i> , 2014, 85, 675-686.	9.2	17
38	Study on Unsteady Combustion Behaviors of AP/HTPB Base-bleed Propellants under Transient Depressurization Conditions. <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 511-517.	1.6	11
39	Study on Expansion Characteristic of Twin Combustion Gas Jets in Five-Stage Cylindrical Stepped-wall Observation Chamber. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 139-155.	2.6	7
40	Expansion characteristics of twin combustion gas jets with high pressure in cylindrical filling liquid chamber. <i>Journal of Hydrodynamics</i> , 2013, 25, 763-771.	3.2	3
41	Experimental Study and Numerical Simulation on Propagation Properties of a Plasma Jet in a Cylindrical Liquid Chamber. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	2.2	4
42	Geometrical Structures and Electronic Properties of Copper-Doped Aluminum Clusters. <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 169-176.	1.3	13
43	Softening of C-H Symmetric Stretching Vibrational Modes for CH <sub>2</sub> and CH <sub>3</sub> Radicals Adsorbed on Cu <sub>n</sub> (n=1-6) Clusters. <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 649-653.	1.3	0
44	Experiments on the Combustion Characteristics of Deterrent-Coated Propellants and Their Application in Traveling Charge Propulsion. <i>Combustion Science and Technology</i> , 2012, 184, 178-185.	2.3	6
45	Measurement and Analysis of the Burning Rate of HAN-Based Liquid Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 439-444.	1.6	4
46	A study on interaction of high pressure gas jet and liquid medium. , 2011, , .		0
47	Study on electrical ignition and micro-explosion properties of HAN-based monopropellant droplet. <i>Frontiers of Energy and Power Engineering in China</i> , 2010, 4, 430-435.	0.4	9
48	Influence of boundary shape on interaction process of plasma jet and liquid media. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2010, 33, 541-548.	0.6	5
49	Design of Periodicity Sequence Pulse Discharge Ignition Device and the Ignition Mechanism Study. , 2010, , .		1
50	Study on Expansion Process and Interaction of High Speed Twin Combustion-Gas Jets in Liquid. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010, 77, .	2.2	8
51	Experimental Study and Numerical Simulation of Propellant Ignition and Combustion for Cased Telescoped Ammunition in Chamber. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010, 77, .	2.2	5
52	Experimental Study and Numerical Simulation on Interaction of Plasma Jet and Liquid media. , 2009, , .		1