Curriculum Vitae

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<tr><td rowspan="6">Personal Information</td><td>Name</td><td>Zhang Yu</td><td>Gender</td><td>Male</td><td rowspan="3">  </td></tr>
<tr><td>Academic Title</td><td colspan="3">Associate research fellow</td></tr>
<tr><td>College</td><td colspan="3">Faculty of Materials and Manufacturing</td></tr>
<tr><td>Discipline</td><td colspan="4">Welding metallurgy</td></tr>
<tr><td>Email</td><td colspan="4">zhangyumse@bjut.edu.cn</td></tr>
<tr><td>Mail Add.</td><td colspan="4">Institute of Light Alloy and Processing, Faculty of Materials and Manufacturing, Beijing University of Technology, 100124, Beijing</td></tr>
<tr><td>Educational Background</td><td colspan="5">2013.09-2018.06 PHD, School of Materials Science and Engineering, Tianjin University.
2009.09-2013.06 Bachelor, School of Materials Science and Technology, Nanjing University of Aeronautics And Astronautics.</td></tr>
<tr><td>Working Experience</td><td colspan="5">2020.08-Present Associate research fellow, Faculty of Materials and Manufacturing, Beijing University of Technology.
2018-07-2020.07 Post-doc, Department of Mechanical Engineering, Tsinghua University.</td></tr>
<tr><td>Research Interests</td><td colspan="5">Welding metallurgy of light-weight metals (Aluminum and magnesium alloys); Multi-physics field coupled finite element simulation; Resistance spot welding; Arc welding; Additive manufacturing; CALPHAD.</td></tr>
<tr><td>Major Publications*</td><td colspan="5">[1] Zhang Y, Luo Z, Li Y, Liu Z, Huang Z. Microstructure characterization and tensile properties of Mg/Al dissimilar joints manufactured by thermo-compensated resistance spot welding with Zn interlayer[J]. Materials & Design, 2015, 75: 166-173. IF=5.77
[2] Zhang Y, Li Y, Luo Z, Yuan T, Bi J, Wang Z M, Wang Z P, Chao Y J. Feasibility study of dissimilar joining of aluminum alloy 5052 to pure copper via thermo-compensated resistance spot welding[J]. Materials & Design, 2016, 106: 235-246. IF=5.77
[3] Zhang Y, Shan H, Li Y, Guo J, Luo Z, Ma C Y. Joining aluminum alloy 5052 sheets via novel hybrid resistance spot clinching process[J]. Materials & Design, 2017, 118: 36-43. IF=5.77
[4] Zhang Y, Wang C, Shan H, et al. High-toughness joining of aluminum alloy 5754 and DQSK steel using hybrid clinching–welding process[J]. Journal of Materials Processing Technology, 2018. IF=4.178
[5] Zhang Y, Shan H, Luo Z, Li Y, Bi J, Guo J, Gao F. Temperature field and microstructure characterization of AA6061/H70 dissimilar thermo-compensated resistance spot welds having different joint configurations[J]. Journal of Manufacturing Processes, 2017, 28: 336-342. IF=3.462
[6] Zhang Y, Zhang X, Guo J, et al. Effects of local stiffness on the spot joints mechanical properties: Comparative study between resistance spot welding and resistance spot clinching joints[J]. Journal of Manufacturing Processes, 2019, 39: 93-101. IF=3.462
[7] Zhang Y, Shan H, Li Y, Zhao C F, Luo Z, Guo J, Ma C Y. Effects of the oxide film on the spot joining of aluminum</td></tr>
</table>

	alloy sheets: a comparative study between resistance spot welding and resistance spot clinching[J]. The International Journal of Advanced Manufacturing Technology, 2017, 92(9-12): 4231-4240. IF=2.496 [8] Zhang Y, Li Y, Luo Z, Feng Y, Zhou J. Effect of joint design on the failure behaviour of three-stack-up austenitic stainless steel resistance spot welds[J]. Science and Technology of Welding and Joining, 2016, 21(6): 484-492. IF=2.358 [9] Zhang Y, Li Y, Zhu Z, Luo Z, Sunusi M. Manladan. Bake-strengthening of Resistance Spot welded aluminum alloy 6061. Welding Journal. 2019, 98(11): 337S-350S. IF=1.34 [10] Du H, Bi J, Zhang Y*, et al. The role of the partial melting zone in the nugget growth process of unequal-thickness dissimilar aluminum alloy 2219/5A06 resistance spot welding[J]. Journal of Manufacturing Processes, 2019, 45: 304-311. IF=3.462 [11] Zhang Y*, Guo J, Li Y, et al. A comparative study between the mechanical and microstructural properties of resistance spot welding joints among ferritic AISI 430 and austenitic AISI 304 stainless steel[J]. Journal of Materials Research and Technology, 2020, 9(1): 574-583. IF=3.327
Research Projects*	Research on hybrid resistance spot clinching of aluminum alloys and the joints strengthening & toughening, the National Natural Science Foundation of China (Grant No. 51905300); Study on the cracking restriction and dendritic growth mechanism of the aluminum alloys gas tungsten arc welding process under pulse modulation technology, the China Postdoctoral Science Foundation (Grant No. 2018M641340)
Professional Membership	-
Potential Research Projects**	Special filler metals for high-strength aluminum alloy welded structures.

* Please list achievements of recent 5 years

** This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for Sino-Polish or EU scientific cooperation projects.