

# Shun-lai Zang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24  
papers

574  
citations

11  
h-index

23  
g-index

25  
ext. papers

680  
ext. citations

4.4  
avg, IF

3.91  
L-index

#	Paper	IF	Citations
24	Effect study and application to improve high cycle fatigue resistance of TC11 titanium alloy by laser shock peening with multiple impacts. <i>Surface and Coatings Technology</i> , <b>2014</b> , 253, 68-75	4.4	87
23	An evolutionary anisotropic model for sheet metals based on non-associated flow rule approach. <i>Computational Materials Science</i> , <b>2014</b> , 81, 15-29	3.2	64
22	Evaluation of anisotropic constitutive models: Mixed anisotropic hardening and non-associated flow rule approach. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 73, 53-68	5.5	55
21	Calibration of anisotropic yield criterion with conventional tests or biaxial test. <i>International Journal of Mechanical Sciences</i> , <b>2014</b> , 85, 142-151	5.5	50
20	Measurement of the Bauschinger behavior of sheet metals by three-point bending springback test with pre-strained strips. <i>International Journal of Plasticity</i> , <b>2014</b> , 59, 84-107	7.6	48
19	Prediction of anisotropy and hardening for metallic sheets in tension, simple shear and biaxial tension. <i>International Journal of Mechanical Sciences</i> , <b>2011</b> , 53, 338-347	5.5	44
18	A model of one-surface cyclic plasticity and its application to springback prediction. <i>International Journal of Mechanical Sciences</i> , <b>2011</b> , 53, 425-435	5.5	43
17	Evaluating the significance of hardening behavior and unloading modulus under strain reversal in sheet springback prediction. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 77, 194-204	5.5	42
16	A constitutive model for spring-back prediction in which the change of Young's modulus with plastic deformation is considered. <i>International Journal of Machine Tools and Manufacture</i> , <b>2007</b> , 47, 1791-1797 <sup>39</sup>	9.4	39
15	Experimental and numerical investigation for ductile fracture of Al-alloy 5052 using modified Rousselier model. <i>Computational Materials Science</i> , <b>2013</b> , 71, 115-123	3.2	33
14	Measurements of Bauschinger effect and transient behavior of a quenched and partitioned advanced high strength steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 586, 31-37	5.3	23
13	The remodeling of alveolar bone supporting the mandibular first molar with different levels of periodontal attachment. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 991-7	3.1	10
12	Constructing micro-mechanical representative volume element of medium Mn steel from EBSD data. <i>Materials and Design</i> , <b>2017</b> , 129, 34-43	8.1	6
11	Zoning study on the fatigue crack propagation behaviors of a double-sided electron beam welded joint of TC4 titanium alloy with the thickness of 140 mm. <i>International Journal of Fatigue</i> , <b>2021</b> , 146, 106145	5.45	6
10	Analysis of the mechanical properties of TiN/Ti multilayer coatings using indentation under a broad load range. <i>Ceramics International</i> , <b>2021</b> , 47, 10796-10808	5.1	5
9	Damage evolution behavior of TiN/Ti multilayer coatings under high-speed impact conditions. <i>Surface and Coatings Technology</i> , <b>2021</b> , 426, 127807	4.4	4
8	Evaluation of the elastic-plastic properties of TiN coating by nanoindentation technologies using FEM-reverse algorithm. <i>Surface and Coatings Technology</i> , <b>2021</b> , 409, 126855	4.4	4

7	A General Yield Function within the Framework of Linear Transformations of Stress Tensors for the Description of Plastic-strain-induced Anisotropy <b>2011</b> ,		3
6	Identification of 7B04 aluminum alloy anisotropy yield criteria with conventional test and Pottier test at elevated temperature. <i>Results in Physics</i> , <b>2019</b> , 15, 102655	3-7	2
5	A new representation of linear transformation tensor for the description of plastic subsequent anisotropy <b>2013</b> ,		2
4	Modeling Bake Hardening Effects in Steel Sheets Application to Dent Resistance. <i>Metals</i> , <b>2018</b> , 8, 594	2-3	2
3	Influence of Parameter Identification of Anisotropic Yield Function on Spring-Back Prediction in Finite Element Simulation of Sheet Metal Forming Process. <i>Advanced Materials Research</i> , <b>2011</b> , 189-193, 1465-1471	0.5	1
2	Evaluation of Associated and Non-Associated Flow Metal Plasticity; Application for DC06 Deep Drawing Steel. <i>Key Engineering Materials</i> , <b>2012</b> , 504-506, 661-666	0.4	1
1	Springback Prediction Using the Split-Ring Test Based on a Combined Anisotropic Hardening Model. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 217-219, 1375-1380	0.3	