

# Ngoc-Trung Nguyen

## 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.

25 papers	227 citations	9 h-index	14 g-index
29 ext. papers	266 ext. citations	2.6 avg, IF	2.91 L-index

#	Paper	IF	Citations
25	Mechanical Behavior of AZ31B Mg Alloy Sheets under Monotonic and Cyclic Loadings at Room and Moderately Elevated Temperatures. <i>Materials</i> , <b>2014</b> , 7, 1271-1295	3.5	50
24	A practical constitutive model for AZ31B Mg alloy sheets with unusual stress-strain response. <i>Finite Elements in Analysis and Design</i> , <b>2013</b> , 76, 39-49	2.2	29
23	Cyclic behavior of AZ31B Mg: Experiments and non-isothermal forming simulations. <i>International Journal of Plasticity</i> , <b>2015</b> , 75, 39-62	7.6	21
22	Bi-objective optimal design of a damage-tolerant multifunctional battery system. <i>Materials and Design</i> , <b>2016</b> , 105, 51-65	8.1	16
21	Multi-Objective Genetic Algorithm to Optimize Variable Drawbead Geometry for Tailor Welded Blanks Made of Dissimilar Steels. <i>Steel Research International</i> , <b>2014</b> , 85, 1597-1607	1.6	15
20	Failure prediction of AZ31B magnesium alloy sheet based on a micro-mechanical void model incorporating the asymmetric plasticity constitutive law. <i>International Journal of Plasticity</i> , <b>2017</b> , 94, 98-129	7.6	13
19	Determination of Anisotropic Yield Coefficients by a Data-Driven Multiobjective Evolutionary and Genetic Algorithm. <i>Materials and Manufacturing Processes</i> , <b>2015</b> , 30, 403-413	4.1	12
18	Ductile fracture prediction and forming assessment of AA6061-T6 aluminum alloy sheets. <i>International Journal of Fracture</i> , <b>2018</b> , 209, 143-162	2.3	11
17	Springback Reduction in Tailor Welded Blank with High Strength Differential by Using Multi-Objective Evolutionary and Genetic Algorithms. <i>Steel Research International</i> , <b>2015</b> , 86, 1391-1402	1.6	10
16	A pragmatic approach to accommodate in-plane anisotropy in forming limit diagrams. <i>Mechanics Research Communications</i> , <b>2014</b> , 62, 5-17	2.2	9
15	Flutter and Buffeting Control of Long-span Suspension Bridge by Passive Flaps: Experiment and Numerical Simulation. <i>International Journal of Aeronautical and Space Sciences</i> , <b>2013</b> , 14, 46-57	1.2	9
14	Mechanical Energy Dissipation in a Multifunctional Battery System. <i>MRS Advances</i> , <b>2016</b> , 1, 381-388	0.7	5
13	Design of high strength differential TWB to enhance drawability: FE study and optimization. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2014</b> , 15, 2273-2283	1.7	4
12	Design Analysis of a 3B Mode Piezocomposite Actuator. <i>Advanced Composite Materials</i> , <b>2011</b> , 20, 301-317	1.8	4
11	Actuation Displacement of Unimorph Piezoelectric Actuators with External Loading. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 51, 11	0.6	4
10	Analytical model and optimal design of a d33-mode active layer for the lightweight unimorph piezo-composite actuator. <i>Journal of Electroceramics</i> , <b>2011</b> , 26, 175-184	1.5	3
9	Development of Elevator Control Surface for Small Air Robot Using Piezoceramic Actuator <b>2006</b> ,		2

8	An efficient homogenization method using the trigonometric interpolation and the fast fourier transform. <i>Vietnam Journal of Mechanics</i> , <b>2012</b> , 33, 215-223	1.8	2
7	Application of Failure Criteria in Aluminum Sheet Forming Analysis. <i>Transactions of Materials Processing</i> , <b>2011</b> , 20, 167-172		2
6	Characterization of composite material properties using eigenstrain method. <i>Advanced Composite Materials</i> , <b>2012</b> , 21, 299-313	2.8	1
5	Actuation characterization of the lightweight unimorph piezo-composite actuator for different loading cases. <i>Advanced Composite Materials</i> , <b>2013</b> , 22, 203-212	2.8	1
4	An experimental study to improve the performance of unimorph piezoelectric actuators subjected to external loading <b>2007</b> ,		1
3	Analytical model for actuation displacement prediction of unimorph piezoelectric composite actuators <b>2006</b> ,		1
2	Implementation and Application of Dung $\Phi$ Model to Analyze Ductile Fracture of Metallic Material. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 903-913	0.2	1
1	Application of the Dung $\Phi$ Microscopic Damage Model to Predict Ductile Fracture of the Deep Drawn Aluminum Alloy Sheets. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 891-901	0.2	