

# Giancarlo Gonzales

## List of Publications by Year in descending order

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27  
papers

189  
citations

1307594

7  
h-index

1125743

13  
g-index

27  
all docs

27  
docs citations

27  
times ranked

137  
citing authors

#	ARTICLE	IF	CITATIONS
1	A J-integral approach using digital image correlation for evaluating stress intensity factors in fatigue cracks with closure effects. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 90, 14-21.	4.7	53
2	Crack tip displacement fields measured by digital image correlation for evaluating variable mode-mixity during fatigue crack growth. <i>International Journal of Fatigue</i> , 2018, 115, 53-66.	5.7	25
3	Mechanical behavior of strain-hardening cement-based composites (SHCC) subjected to torsional loading and to combined torsional and axial loading. <i>Materials and Design</i> , 2021, 198, 109371.	7.0	16
4	Measuring elastoplastic strain loops in the near crack-tip region using a Stereo Microscope DIC system. <i>International Journal of Fatigue</i> , 2020, 133, 105427.	5.7	13
5	Strain field measurements around notches using SIFT features and meshless methods. <i>Applied Optics</i> , 2015, 54, 4520.	1.8	11
6	Challenging the $\Delta K$ is the driving force for fatigue crack growth hypothesis. <i>International Journal of Fatigue</i> , 2020, 136, 105577.	5.7	10
7	Variable mode-mixity during fatigue cycles – crack tip parameters determined from displacement fields measured by digital image correlation. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 314-322.	0.9	10
8	Characterization of discontinuous crack closure behavior after the application of a single overload cycle. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 103028.	4.7	8
9	Determining SIFs Using DIC Considering Crack Closure and Blunting. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 25-36.	0.5	7
10	Thermography Applied to the Study of Fatigue Crack Propagation in Polycarbonate. <i>Experimental Mechanics</i> , 2018, 58, 269-282.	2.0	6
11	Fatigue Monitoring of a Dented Piping Specimen Using Infrared Thermography. , 2018, , .		5
12	Crack-Tip Plastic Zone Size and Shape via DIC. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 5-10.	0.5	5
13	Detecting Fatigue Crack Closure and Crack Growth Delays After an Overload Using DIC Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2018, , 57-65.	0.5	3
14	Using DIC techniques to measure strain ranges inside the cyclic plastic zone ahead of a fatigue crack tip. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 74-81.	0.9	3
15	On DIC measurements of $\Delta K_{eff}$ to verify if it is the FCG driving force. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 227-235.	0.9	2
16	Verification of the $\Delta K_{eff}$ hypothesis along the fatigue crack path in thin and thick Al specimens. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 26-35.	0.9	2
17	Fatigue of buried dented pipeline specimens. <i>Procedia Structural Integrity</i> , 2021, 33, 159-170.	0.8	2
18	DIC Analysis for Crack Closure Investigations During Fatigue Crack Growth Following Overloads. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 151-156.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Infrared Thermography Applied to the Assessment of Fatigue Initiation. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 57-66.	0.5	1
20	Determining Stress Intensity Factors Using Hybrid Thermoelastic Analysis. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 37-45.	0.5	1
21	Strains in Shallow and Deep Notches Using Two DIC Algorithms. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 281-294.	0.5	1
22	Determination of a U-Notch Stress Concentration Factor Using Thermoelasticity. Journal of Mechanics Engineering and Automation, 2016, 6, .	0.0	1
23	Fatigue Assessment and Monitoring of a Dented Pipeline Specimen. , 2019, , .		1
24	Fatigue Assessment of Dented Pipeline Specimens. , 2020, , .		1
25	Stress Concentration Evaluation of a Plate with Symmetrical U-Notches Under Tensile Load Using TSA and a Lepton IR Camera. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 29-39.	0.5	1
26	DIC-IR Analysis of Transient Thermal Stresses. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 67-73.	0.5	0
27	Fatigue Monitoring of a Dented Pipeline Specimen Using Infrared Thermography, DIC and Fiber Optic Strain Gages. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 57-66.	0.5	0