Gary B Marquis

List of Publications by Year in descending order

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CARY R MAROLIIS

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An efficient stress intensity factor evaluation method for interacting arbitrary shaped 3D cracks. Theoretical and Applied Fracture Mechanics, 2020, 109, 102767. | 4.7 | 7 |
| 2 | The influence of interacting small defects on the fatigue limits of a pure iron and a bearing steel. International Journal of Fatigue, 2020, 135, 105560. | 5.7 | 20 |
| 3 | Interaction effect of adjacent small defects on the fatigue limit of a medium carbon steel. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 130-144. | 3.4 | 22 |
| 4 | A finite element study on residual stress stability and fatigue damage in high-frequency mechanical impact (HFMI)-treated welded joint. International Journal of Fatigue, 2017, 94, 16-29. | 5.7 | 30 |
| 5 | Fatigue strength evaluation of small defect at stress concentration. Procedia Structural Integrity, 2017, 7, 351-358. | 0.8 | 22 |
| 6 | IIW Recommendations for the HFMI Treatment. IIW Collection, 2016, , . | 0.1 | 59 |
| 7 | The effect of interacting small defects on the fatigue limit of a medium carbon steel. Procedia Structural Integrity, 2016, 2, 3322-3329. | 0.8 | 3 |
| 8 | Fatigue crack growth behavior of amorphous particulate reinforced composites. Composite Structures, 2016, 153, 782-790. | 5.8 | 19 |
| 9 | Lightweight design with welded high-frequency mechanical impact (HFMI) treated high-strength steel joints from S700 under constant and variable amplitude loadings. International Journal of Fatigue, 2016, 91, 466-474. | 5.7 | 28 |
| 10 | Microstructure-sensitive investigation on the plastic deformation and damage initiation of amorphous particles reinforced composites. Composite Structures, 2016, 142, 130-139. | 5.8 | 17 |
| 11 | Application studies for fatigue strength improvement of welded structures by high-frequency mechanical impact (HFMI) treatment. Engineering Structures, 2016, 106, 422-435. | 5.3 | 19 |
| 12 | Material characterization of high-frequency mechanical impact (HFMI)-treated high-strength steel. Materials and Design, 2016, 89, 205-214. | 7.0 | 20 |
| 13 | IIW Recommendations on High Frequency Mechanical Impact (HFMI) Treatment for Improving the Fatigue Strength of Welded Joints. IIW Collection, 2016, , 1-34. | 0.1 | 16 |
| 14 | Fatigue improvement of welded steel joints by high frequency mechanical impact treatment. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 136-144. | 0.9 | 3 |
| 15 | Fatigue assessment of highâ€frequency mechanical impact (HFMI)â€ŧreated welded joints subjected to high mean stresses and spectrum loading. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1167-1180. | 3.4 | 17 |
| 16 | Lightweight Potential of Welded High-strength Steel Joints from S700 Under Constant and Variable Amplitude Loading by High-frequency Mechanical Impact (HFMI) Treatment. Procedia Engineering, 2015, 101, 467-475. | 1.2 | 15 |
| 17 | Equivalent crack approach for fatigue life assessment of welded joints. Engineering Fracture Mechanics, 2015, 149, 144-155. | 4.3 | 12 |
| 18 | Mechanical and real microstructure behavior analysis of particulate-reinforced nanocomposite considering debonding damage based on cohesive finite element method. Composite Structures, 2015, 122, 518-525. | 5.8 | 33 |

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|----|--|--------------|----------------|
| 19 | Shear fatigue of the bonded and frictional interface under constant normal pre-stress. International Journal of Fatigue, 2015, 70, 1-12. | 5.7 | 5 |
| 20 | A constitutive model for interface problems with frictional contact and cohesion. European Journal of Mechanics, A/Solids, 2015, 49, 205-213. | 3.7 | 5 |
| 21 | Notch stress analyses of highâ€frequency mechanical impactâ€improved welds by using Ï _f = 1 mm and Ï_f = Ï + 1 mm approachesMaterials and Structures, 2014, 37, 561-569. | >. Fatigue a | nd Effecture o |
| 22 | Fatigue strength improvement of steel structures by high-frequency mechanical impact: proposed procedures and quality assurance guidelines. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 19-28. | 2.5 | 55 |
| 23 | Micromechanical modeling of nanocomposites considering debonding and waviness of reinforcements. Composite Structures, 2014, 110, 1-6. | 5.8 | 30 |
| 24 | Micromechanical modeling of nanocomposites considering debonding of reinforcements. Composites Science and Technology, 2014, 93, 38-45. | 7.8 | 12 |
| 25 | Fatigue Life Assessment of Welded Joints by the Equivalent Crack Length Method. , 2014, 3, 1822-1827. | | 13 |
| 26 | Fatigue design of axially-loaded high frequency mechanical impact treated welds by the effective notch stress method. Materials & Design, 2014, 58, 543-550. | 5.1 | 16 |
| 27 | Fatigue experiments and finite element analysis of bolted/bonded double lap joints. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 771-785. | 2.5 | 8 |
| 28 | Behavior of Compressive Residual Stresses in High Strength Steel Welds Induced by High Frequency Mechanical Impact Treatment. Journal of Pressure Vessel Technology, Transactions of the ASME, 2014, 136, . | 0.6 | 17 |
| 29 | Experimental Verification of HFMI Treatment of Large Structures. , 2014, , . | | 3 |
| 30 | The effect of nanotubes waviness on mechanical properties of CNT/SMP composites. Composites Science and Technology, 2013, 86, 164-169. | 7.8 | 68 |
| 31 | Fatigue strength improvement of steel structures by high-frequency mechanical impact: proposed fatigue assessment guidelines. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 803-822. | 2.5 | 103 |
| 32 | The effect of clamping stress on the fatigue strength of bonded high-strength steel interfaces. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 285. | 2.5 | 2 |
| 33 | Fatigue crack growth of arbitrary planar cracks in welded components. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 425. | 2.5 | 4 |
| 34 | A round robin study of high-frequency mechanical impact (HFMI)-treated welded joints subjected to variable amplitude loading. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 437. | 2.5 | 45 |
| 35 | A Guideline for Fatigue Strength Improvement of High Strength Steel Welded Structures Using High Frequency Mechanical Impact Treatment. Procedia Engineering, 2013, 66, 98-107. | 1.2 | 26 |
| 36 | Shear damage simulation of adhesive reinforced bolted lap-connection interfaces. Engineering Fracture Mechanics, 2013, 109, 341-352. | 4.3 | 8 |

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|----|---|-----|-----------|
| 37 | Fatigue assessment of high frequency mechanical impact (HFMI)-improved fillet welds by local approaches. International Journal of Fatigue, 2013, 52, 57-67. | 5.7 | 54 |
| 38 | A Method for Obtaining the Dynamic Stress History from a Flexible Multibody Simulation Using Sub-Modeling#. Mechanics Based Design of Structures and Machines, 2013, 41, 316-336. | 4.7 | 0 |
| 39 | Behavior of Compressive Residual Stresses in High Strength Steel Welds Induced by High Frequency Mechanical Impact Treatment. , 2013, , . | | 4 |
| 40 | Fatigue strength improvement factors for high strength steel welded joints treated by high frequency mechanical impact. International Journal of Fatigue, 2012, 44, 168-176. | 5.7 | 109 |
| 41 | Overview of Fatigue Data for High Frequency Mechanical Impact Treated Welded Joints. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 82-96. | 2.5 | 64 |
| 42 | Mesoscale modelling of crack nucleation from defects in steel. International Journal of Fatigue, 2012, 41, 64-71. | 5.7 | 19 |
| 43 | Development of Weld Quality Criteria Based on Fatigue Performance. Welding in the World, Le Soudage Dans Le Monde, 2011, 55, 79-88. | 2.5 | 47 |
| 44 | Development of Data Sheets for Statistical Evaluation of Fatigue Data. Journal of Iron and Steel Research International, 2011, 18, 70-78. | 2.8 | 4 |
| 45 | Fatigue of bonded steel interfaces under cyclic shear loading and static normal stress. Engineering Fracture Mechanics, 2011, 78, 1644-1656. | 4.3 | 6 |
| 46 | Durability of advanced fabricated structures. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 1050-1058. | 0.9 | 2 |
| 47 | A parametric shear damage evolution model for combined clamped and adhesively bonded interfaces. Engineering Fracture Mechanics, 2011, 78, 163-174. | 4.3 | 16 |
| 48 | Shear decohesion of clamped abraded steel interfaces reinforced with epoxy adhesive. International Journal of Adhesion and Adhesives, 2011, 31, 550-558. | 2.9 | 14 |
| 49 | Pattern optimization of eccentrically loaded multi-fastener joints. Structural and Multidisciplinary Optimization, 2010, 40, 597-609. | 3.5 | 9 |
| 50 | Effect of hydrogen on Mode II fatigue crack behavior of tempered bearing steel and microstructural changes. International Journal of Fatigue, 2010, 32, 943-951. | 5.7 | 37 |
| 51 | Failure modes and fatigue strength of improved HSS welds. Engineering Fracture Mechanics, 2010, 77, 2051-2062. | 4.3 | 59 |
| 52 | A simplified fatigue assessment method for high quality welded cruciform joints. International Journal of Fatigue, 2009, 31, 79-87. | 5.7 | 35 |
| 53 | Observations on fatigue crack paths in the corners of cold-formed high-strength steel tubes. Engineering Fracture Mechanics, 2008, 75, 833-844. | 4.3 | 15 |
| 54 | Assessment of Subzero Fracture of Welded Tubular K-Joint. Journal of Structural Engineering, 2008, 134, 181-188. | 3.4 | 2 |

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| 55 | Fatigue analysis of non-load-carrying fillet welded cruciform joints. Engineering Fracture Mechanics, 2007, 74, 399-415. | 4.3 | 32 |
| 56 | Fatigue Life Estimation of Ultrasonic Impact Treated Welds Using a Local Strain Approach. Steel Research International, 2006, 77, 896-900. | 1.8 | 12 |
| 57 | Improving the Accuracy of Structural Hot-spot Stress Approach. Steel Research International, 2006, 77, 901-905. | 1.8 | 1 |
| 58 | An aging aircraft's wing under complex multiaxial spectrum loading: Fatigue assessment and repairing. International Journal of Fatigue, 2006, 28, 652-656. | 5.7 | 4 |
| 59 | A fatigue assessment method based on weld stress. International Journal of Fatigue, 2006, 28, 1037-1046. | 5.7 | 37 |
| 60 | A parametric fracture mechanics study of welded joints with toe cracks and lack of penetration. Engineering Fracture Mechanics, 2005, 72, 1580-1609. | 4.3 | 36 |
| 61 | Modelling and fatigue life assessment of complex structures. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 678-684. | 0.9 | 6 |
| 62 | State-of-the-art and future trends in multiaxial fatigue assessment. Materialpruefung/Materials Testing, 2005, 47, 260-266. | 2.2 | 4 |
| 63 | High Cycle Variable Amplitude Fatigue of a Nodular Cast Iron. , 2005, , 215-231. | | Ο |
| 64 | Interaction equations for multiaxial fatigue assessment of welded structures. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 991-1003. | 3.4 | 15 |
| 65 | Finite element methods for structural hot spot stress determination—a comparison of procedures. International Journal of Fatigue, 2004, 26, 1147-1157. | 5.7 | 84 |
| 66 | Influence of mechanical mismatching on the failure of welded joints by void nucleation and coalescence. International Journal of Pressure Vessels and Piping, 2003, 80, 647-654. | 2.6 | 6 |
| 67 | Long-life multiaxial fatigue of a nodular graphite cast iron. European Structural Integrity Society, 2003, , 105-122. | 0.1 | 6 |
| 68 | A review of multiaxial fatigue of weldments: experimental results, design code and critical plane approaches. Fatigue and Fracture of Engineering Materials and Structures, 2001, 24, 279-291. | 3.4 | 68 |
| 69 | Endurance Limit Design of Spheroidal Graphite Cast Iron Components Based on Natural Defects. , 2000, , 411-426. | | 1 |
| 70 | Crack propagation under cyclic hydraulic pressure loading. International Journal of Fatigue, 1997, 19, 543-550. | 5.7 | 3 |
| 71 | LONG LIFE SPECTRUM FATIGUE OF CARBON AND STAINLESS STEEL WELDS. Fatigue and Fracture of Engineering Materials and Structures, 1996, 19, 739-753. | 3.4 | 19 |
| 72 | Service Load Fatigue Testing of Railway Bogie Components. , 0, , 342-342-13. | | 0 |