# JesÃºs Toribio

List of Publications by Year
in descending order

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|---|---|---|---|
| 268 papers | 2,908 citations | 172457 29 h-index | 276875 41 g-index |
| 274 all docs | 274 docs citations | 274 times ranked | 912 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mechanism Cleaning of the Ear Canal. Inventions, 2022, 7, 20. | 2.5 | 1 |
| 2 | On the cleavage stress promoting crack path deflection and anisotropic fracture in cold drawn pearlitic steel. Procedia Structural Integrity, 2022, 39, 722-725. | 0.8 | 0 |
| 3 | Multiscale approach to fatigue crack propagation paths in cold drawn pearlitic steels. Procedia Structural Integrity, 2022, 39, 560-563. | 0.8 | 0 |
| 4 | Hydrogen assisted cracking paths in cold drawn pearlitic steels. Procedia Structural Integrity, 2022, 39, 466-469. | 0.8 | 0 |
| 5 | Axial micro-cracking paths and locally anisotropic hydrogen embrittlement behaviour in cold drawn pearlitic steel wires. Procedia Structural Integrity, 2022, 39, 488-493. | 0.8 | 0 |
| 6 | Analysis of near-tip fatigue crack path deflection in metallic materials. Procedia Structural Integrity, 2022, 39, 470-474. | 0.8 | 0 |
| 7 | More Steps Towards an Innovative Concept of Structural Integrity: Between Leonardo da Vinci and Galileo Galilei. Procedia Structural Integrity, 2022, 37, 977-984. | 0.8 | 0 |
| 8 | Analysis of near-tip fatigue crack path bifurcation in metallic materials. Procedia Structural Integrity, 2022, 39, 479-483. | 0.8 | 0 |
| 9 | Stress corrosion cracking paths in cold drawn pearlitic steels. Procedia Structural Integrity, 2022, 39, 475-478. | 0.8 | 1 |
| 10 | Review and synthesis of stress intensity factor (SIF) solutions for elliptical surface cracks in round bars under tension loading: A Tribute to Leonardo Torres-Quevedo. Procedia Structural Integrity, 2022, 37, 1029-1036. | 0.8 | 1 |
| 11 | Micro- and nano-structural integrity of cold drawn pearlitic steels: drawing-induced evolution of intracolonial micro-defects. Procedia Structural Integrity, 2022, 37, 1007-1012. | 0.8 | 0 |
| 12 | A fracture criterion for cold drawn pearlitic steel notched wires with circumferentially-shaped notches of different geometries: From Eduardo Torroja to JosÃ© Antonio Torroja. Procedia Structural Integrity, 2022, 37, 1021-1028. | 0.8 | 0 |
| 13 | Environmentally-assisted microstructural integrity of commercial cold drawn pearlitic steel wires. Procedia Structural Integrity, 2022, 37, 1001-1006. | 0.8 | 1 |
| 14 | A fracture criterion for cold drawn pearlitic steel cracked wires with elliptical surface cracks of different aspect ratios: A Tribute to Eduardo Torroja. Procedia Structural Integrity, 2022, 37, 1013-1020. | 0.8 | 0 |
| 15 | Hydrogen embrittlement of pearlitic steel in the presence of notches: A kinematic fracture criterion based on the notch tip strain rate. Procedia Structural Integrity, 2022, 41, 736-743. | 0.8 | 2 |
| 16 | Towards a New Concept of Crack Path: A Tribute to James R. Rice. Procedia Structural Integrity, 2022, 41, 712-717. | 0.8 | 0 |
| 17 | A fracture mechanics approach to hydrogen assisted microdamage and failure analysis of high-strength pearlitic steel wires: Resembling Michelangelo Stone Sculpture Texture. Procedia Structural Integrity, 2022, 41, 724-727. | 0.8 | 1 |
| 18 | Hydrogen embrittlement of pearlitic steel in the presence of cracks: A kinematic fracture criterion based on the crack tip strain rate. Procedia Structural Integrity, 2022, 41, 728-735. | 0.8 | 0 |

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| 19 | A modified Paris Law approach to fatigue crack propagation in cold drawn pearlitic steel. Procedia Structural Integrity, 2022, 41, 718-723. | 0.8 | 0 |
| 20 | Cleavage Stress Producing Notch-Induced Anisotropic Fracture and Crack Path Deflection in Cold Drawn Pearlitic Steel. Metals, 2021, 11, 451. | 2.3 | 2 |
| 21 | Hydrogen-Assisted Fatigue Propagation in Corner Cracks at Holes Located in Plates under Tensile Loading. Metals, 2021, 11, 552. | 2.3 | 1 |
| 22 | Numerical Modeling of Plasticity-Induced Fatigue Crack Growth Retardation Due to Deflection in the Near-Tip Area. Metals, 2021, 11, 541. | 2.3 | 6 |
| 23 | Stress Intensity Factors for Embedded, Surface, and Corner Cracks in Finite-Thickness Plates Subjected to Tensile Loading. Materials, 2021, 14, 2807. | 2.9 | 1 |
| 24 | Role of Non-Metallic Inclusions in the Fracture Behavior of Cold Drawn Pearlitic Steel. Metals, 2021, 11, 962. | 2.3 | 6 |
| 25 | Effect of the Crack Tip Bifurcation on the Plasticity-Induced Fatigue Propagation in Metallic Materials. Materials, 2021, 14, 3385. | 2.9 | 3 |
| 26 | Drawing-Induced Evolution of Inclusions in Cold-Drawn Pearlitic Steel. Metals, 2021, 11, 1272. | 2.3 | 2 |
| 27 | Hydrogen Embrittlement and Microdamage of 316L Steel Affecting the Structural Integrity, Durability and Safety of Pipelines. Lecture Notes in Civil Engineering, 2021, , 135-143. | 0.4 | 0 |
| 28 | Poetry and Fracture Mechanics. Procedia Structural Integrity, 2021, 33, 1193-1196. | 0.8 | 0 |
| 29 | On the cleavage hoop stress responsible for crack path deflection and notch-induced anisotropic fracture in cold drawn pearlitic steel: Revisiting John Fordâ€™s Monument Valley. Procedia Structural Integrity, 2021, 33, 1219-1224. | 0.8 | 0 |
| 30 | Macro- and micro-approach to the notch-induced fracture process and notch tensile strength in eutectoid hot-rolled pearlitic steel: Weakest Link versus Process Zone Fracture Criterion. Procedia Structural Integrity, 2021, 33, 1131-1138. | 0.8 | 1 |
| 31 | Painting and Fracture Mechanics. Procedia Structural Integrity, 2021, 33, 1187-1192. | 0.8 | 0 |
| 32 | Triaxiality effects on hydrogen-assisted micro-damage (HAMD), notch tensile strength and hydrogen embrittlement of pearlitic steel. Procedia Structural Integrity, 2021, 33, 1139-1145. | 0.8 | 2 |
| 33 | Numerical modeling of hydrogen embrittlement of pearlitic steel in the presence of blunt notches. Procedia Structural Integrity, 2021, 33, 1215-1218. | 0.8 | 0 |
| 34 | Cinema and Fracture Mechanics. Procedia Structural Integrity, 2021, 33, 1197-1202. | 0.8 | 0 |
| 35 | Fracture behaviour of high-strength cold-drawn pearlitic steel wires: The role of non-metallic inclusions. Procedia Structural Integrity, 2021, 33, 1203-1208. | 0.8 | 1 |
| 36 | Broadening the Amplitude in the Definition of Structural Integrity: A Tribute to Galileo Galilei. Procedia Structural Integrity, 2021, 33, 1123-1130. | 0.8 | 1 |

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| 37 | Evolution of non-metallic inclusions with cold drawing in progressively cold drawn eutectoid pearlitic steel wires. Procedia Structural Integrity, 2021, 33, 1209-1214. | 0.8 | 2 |
| 38 | Art and fracture mechanics. Procedia Structural Integrity, 2020, 26, 376-382. | 0.8 | 1 |
| 39 | Hierarchical microstructure evolution in cold drawn pearlitic steels: In the conceptual frame of Fray Luis de LeÃ³n, Miguel de Cervantes, Victor Vasarely, Maurits Cornelis Escher & Johann Sebastian Bach. Procedia Structural Integrity, 2020, 26, 348-353. | 0.8 | 0 |
| 40 | Towards a new concept of structural integrity. Procedia Structural Integrity, 2020, 26, 354-359. | 0.8 | 5 |
| 41 | Identification of a new microstructural unit in cold drawn pearlitic steel: The pearlitic pseudocolony. Procedia Structural Integrity, 2020, 26, 360-367. | 0.8 | 6 |
| 42 | Hydrogen-assisted cracking paths in oriented pearlitic microstructures: Resembling Donatello Wooden Sculpture Texture (DWST) & Mantegnaâ€™s Dead Christ Perspective (MDCP). Procedia Structural Integrity, 2020, 26, 368-375. | 0.8 | 3 |
| 43 | Analysis of the Bauschinger Effect in Cold Drawn Pearlitic Steels. Metals, 2020, 10, 114. | 2.3 | 11 |
| 44 | Anisotropy of hydrogen embrittlement in cold drawn pearlitic steel: A tribute to Mantegna. Procedia Structural Integrity, 2020, 28, 2438-2443. | 0.8 | 3 |
| 45 | Multiscale microstructural evolution in cold drawn pearlitic steel: A Palimpsestus Approach and a Tribute to Raffaello. Procedia Structural Integrity, 2020, 28, 2424-2431. | 0.8 | 0 |
| 46 | The role of local plasticity in the redistribution of stress fields caused by in-service fatigue overloads. Procedia Structural Integrity, 2020, 28, 2386-2389. | 0.8 | 0 |
| 47 | On the concept of micro-fracture map (MFM) and its role in structural integrity evaluations in materials science and engineering: A Tribute to Jorge Manrique. Procedia Structural Integrity, 2020, 28, 2432-2437. | 0.8 | 1 |
| 48 | Influence of microstructural anisotropy on the hydrogen-assisted fracture of notched samples of progressively drawn pearlitic steel. Procedia Structural Integrity, 2020, 28, 2390-2395. | 0.8 | 2 |
| 49 | Hydrogen embrittlement and notch tensile strength of pearlitic steel: a numerical approach. Procedia Structural Integrity, 2020, 28, 2444-2449. | 0.8 | 4 |
| 50 | On the necessity of triaxiality and microstructural orientation to produce anisotropic fracture in cold drawn pearlitic steel: Resembling John Fordâ€™s Monument Valley. Procedia Structural Integrity, 2020, 28, 2416-2423. | 0.8 | 7 |
| 51 | Unconventional pearlitic pseudocolonies affecting macro-, micro- and nano-structural integrity of cold-drawn pearlitic steel wires: Resembling van Gogh, Bernini, Mantegna and Picasso. Procedia Structural Integrity, 2020, 28, 2404-2409. | 0.8 | 4 |
| 52 | Fatigue & fracture crack paths generated by manufacturing-induced microstructural & strength anisotropy in cold drawn pearlitic steels: (a) In the conceptual framework of Maurits Cornelis Escher and Johann Sebastian Bach; (b) An Orteguian approach as well as a heartfelt tribute to Fray Luis de LeÃ³nâ€™s â€œdecÃamos ayerâ€. Procedia Structural Integrity, 2020, 28, 2410-2415. | 0.8 | 1 |
| 53 | Stress intensity factor for an eccentric circular inner crack in a round bar subjected to tensile loading. Procedia Structural Integrity, 2020, 28, 2382-2385. | 0.8 | 2 |
| 54 | Macro- and micro-approach to locally multiaxial fatigue crack paths in oriented and non-oriented pearlitic microstructures. Procedia Structural Integrity, 2020, 28, 2396-2403. | 0.8 | 2 |

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| 55 | Crack path deflection in cold-drawn pearlitic steel as a consequence of microstructural anisotropy generated by manufacturing: Resembling Picasso, Larionov and Goncharova. Procedia Structural Integrity, 2019, 16, 281-286. | 0.8 | 4 |
| 56 | Crack tip field in eccentric circumferentially cracked round bar (CCRB) under tensile loading. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 2153-2161. | 3.4 | 4 |
| 57 | Cold drawn pearlitic steel wires for wind turbines structures: In the wake of Miguel de Cervantes and Johann Sebastian Bach. IOP Conference Series: Materials Science and Engineering, 2018, 446, 012006. | 0.6 | 0 |
| 58 | Microstructure-based anisotropic fracture behavior of progressively cold drawn pearlitic steels and the subsequent crack path deflection: A Picassian Approach. Procedia Structural Integrity, 2018, 9, 323-328. | 0.8 | 1 |
| 59 | Microstructure-based anisotropic fatigue behavior of hot rolled and cold drawn pearlitic steel wires and the corresponding crack paths: Following the wake of Antonio Machado and Fray Luis de LeÃ³n. Procedia Structural Integrity, 2018, 9, 317-322. | 0.8 | 6 |
| 60 | Notch-induced anisotropic fracture of cold drawn pearlitic steels and the associated crack path deflection and mixed-mode stress state: A Tribute to Masaccio. Procedia Structural Integrity, 2018, 9, 311-316. | 0.8 | 4 |
| 61 | Notch effect on the stress intensity factor in tension-loaded circumferentially cracked bars. Engineering Fracture Mechanics, 2018, 202, 436-444. | 4.3 | 5 |
| 62 | HELP versus HEDE in progressively cold-drawn pearlitic steels: Between Donatello and Michelangelo. Engineering Failure Analysis, 2018, 94, 157-164. | 4.0 | 16 |
| 63 | Hydrogen effects in multiaxial fracture of cold-drawn pearlitic steel wires. Engineering Fracture Mechanics, 2017, 174, 243-252. | 4.3 | 9 |
| 64 | Numerical simulation of hydrogen diffusion in the pressure vessel wall of a WWER-440 reactor. IOP Conference Series: Materials Science and Engineering, 2017, 222, 012014. | 0.6 | 0 |
| 65 | Role of in-service stress and strain fields on the hydrogen embrittlement of the pressure vessel constituent materials in a pressurized water reactor. Engineering Failure Analysis, 2017, 82, 458-465. | 4.0 | 12 |
| 66 | Initiation and propagation of fatigue cracks in cold-drawn pearlitic steel wires. Theoretical and Applied Fracture Mechanics, 2017, 92, 410-419. | 4.7 | 16 |
| 67 | Structural integrity of progressively cold-drawn pearlitic steels: From Raffaello Sanzio to Vincent van Gogh. Procedia Structural Integrity, 2017, 3, 3-10. | 0.8 | 16 |
| 68 | Hydrogen Transport to Fracture Sites in Metals and Alloys: Multiphysics Modelling. Procedia Structural Integrity, 2017, 5, 1291-1298. | 0.8 | 5 |
| 69 | Paris Law-Based Approach to Fatigue Crack Growth in Notched Plates under Tension Loading. Procedia Structural Integrity, 2017, 5, 1299-1303. | 0.8 | 4 |
| 70 | Stress Corrosion Cracking of Progressively Cold-Drawn Pearlitic Steels: From Tintoretto to Picasso. Procedia Structural Integrity, 2017, 5, 1439-1445. | 0.8 | 8 |
| 71 | Hydrogen Effects on Progressively Cold-Drawn Pearlitic Steels: Between Donatello and Michelangelo. Procedia Structural Integrity, 2017, 5, 1446-1453. | 0.8 | 9 |
| 72 | Hydrogen embrittlement and micro-damage in notched specimens of progressively cold-drawn pearlitic steel wires. Theoretical and Applied Fracture Mechanics, 2017, 90, 276-286. | 4.7 | 5 |

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| 73 | Susceptibility of Prestressing Steel Wires to Hydrogen-Assisted Cracking in Alkaline Media Simulating Concrete Pore Solutions. Materials Science, 2017, 52, 669-674. | 0.9 | 2 |
| 74 | Hydrogen embrittlement of the pressure vessel structural materials in a WWER-440 nuclear power plant. Energy Procedia, 2017, 131, 379-385. | 1.8 | 4 |
| 75 | Corrosion-Fatigue Crack Growth in Plates: A Model Based on the Paris Law. Materials, 2017, 10, 439. | 2.9 | 8 |
| 76 | Hydrogen Assisted Cracking in Pearlitic Steel Rods: The Role of Residual Stresses Generated by Fatigue Precracking. Materials, 2017, 10, 485. | 2.9 | 3 |
| 77 | Aspect Ratio Evolution in Embedded, Surface, and Corner Cracks in Finite-Thickness Plates under Tensile Fatigue Loading. Applied Sciences (Switzerland), 2017, 7, 746. | 2.5 | 8 |
| 78 | The Role of Overloading on the Reduction of Residual Stress by Cyclic Loading in Cold-Drawn Prestressing Steel Wires. Applied Sciences (Switzerland), 2017, 7, 84. | 2.5 | 8 |
| 79 | Damage evolution in plates subjected to fatigue loading. Journal of Physics: Conference Series, 2017, 842, 012072. | 0.4 | 0 |
| 80 | Influence of crack micro-roughness on the plasticity-induced fatigue propagation in high strength steel. Frattura Ed Integrita Strutturale, 2017, 11, 62-65. | 0.9 | 1 |
| 81 | Crack tip field in circumferentially-cracked round bar (CCRB) in tension affected by loss of axial symmetry. Frattura Ed Integrita Strutturale, 2017, 11, 139-142. | 0.9 | 0 |
| 82 | Influence of Loading Rate on the Hydrogen-Assisted Micro-Damage in Bluntly Notched Samples of Pearlitic Steel. Metals, 2016, 6, 11. | 2.3 | 13 |
| 83 | Tensile Fracture Behavior of Progressively-Drawn Pearlitic Steels. Metals, 2016, 6, 114. | 2.3 | 31 |
| 84 | Influence of Microstructure on Strength and Ductility in Fully Pearlitic Steels. Metals, 2016, 6, 318. | 2.3 | 30 |
| 85 | On the Role of Plasticity-Induced Fatigue Crack Closure in High-Strength Steels. , 2016, , 227-237. | | 0 |
| 86 | Anisotropic Fatigue & Fracture Behaviour in Hot-Rolled and Cold-Drawn Pearlitic Steel Wires. Key Engineering Materials, 2016, 713, 103-106. | 0.4 | 3 |
| 87 | Aspect ratio evolution associated with surface cracks in sheets subjected to fatigue. International Journal of Fatigue, 2016, 92, 588-595. | 5.7 | 10 |
| 88 | Analysis of the Plasticity Characteristics of Progressively Drawn Pearlitic Steel Wires. Materials Science, 2016, 51, 514-519. | 0.9 | 5 |
| 89 | Residual stress redistribution induced by fatigue in cold-drawn prestressing steel wires. Construction and Building Materials, 2016, 114, 317-322. | 7.2 | 31 |
| 90 | The effect of heat treatments on the constituent materials of a nuclear reactor pressure vessel in hydrogen environment. Procedia Structural Integrity, 2016, 2, 622-625. | 0.8 | 2 |

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| 91 | Fatigue crack growth in round bars for rock anchorages: the role of residual stresses. Procedia Structural Integrity, 2016, 2, 2734-2741. | 0.8 | 4 |
| 92 | Hydrogen embrittlement susceptibility of prestressing steel wires: the role of the cold-drawing conditions. Procedia Structural Integrity, 2016, 2, 626-631. | 0.8 | 7 |
| 93 | Fatigue cracking in high-strength cold-drawn pearlitic steel wires for anchorage in rocks. Procedia Structural Integrity, 2016, 2, 2330-2337. | 0.8 | 0 |
| 94 | Analysis of Fatigue Crack Paths in Cold Drawn Pearlitic Steel. Materials, 2015, 8, 7439-7446. | 2.9 | 15 |
| 95 | Influence of Residual Stress Field on the Fatigue Crack Propagation in Prestressing Steel Wires. Materials, 2015, 8, 7589-7597. | 2.9 | 8 |
| 96 | Effect of sudden load decrease on the fatigue crack growth in cold drawn prestressing steel. International Journal of Fatigue, 2015, 76, 53-59. | 5.7 | 7 |
| 97 | A generalised model of hydrogen diffusion in metals with multiple trap types. Philosophical Magazine, 2015, 95, 3429-3451. | 1.6 | 37 |
| 98 | Evolution of crack paths and compliance in round bars under cyclic tension and bending. Theoretical and Applied Fracture Mechanics, 2015, 80, 104-110. | 4.7 | 4 |
| 99 | Corrosion Resistance of Prestressing Steel Wires. Materials Science, 2015, 50, 665-670. | 0.9 | 4 |
| 100 | On the use of varying die angle for improving the resistance to hydrogen embrittlement of cold drawn prestressing steel wires. Engineering Failure Analysis, 2015, 47, 273-282. | 4.0 | 9 |
| 101 | Crack tip fields and mixed mode fracture behaviour of progressively drawn pearlitic steel. Frattura Ed Integrita Strutturale, 2015, 9, 221-228. | 0.9 | 0 |
| 102 | Role of multiaxial stress state in the hydrogen-assisted rolling-contact fatigue in bearings for wind turbines. Frattura Ed Integrita Strutturale, 2015, 9, 434-443. | 0.9 | 0 |
| 103 | Influence of surface defects on the fatigue crack initiation in pearlitic steel. MATEC Web of Conferences, 2014, 12, 06008. | 0.2 | 1 |
| 104 | Evolution of crack paths and compliance in round bars under cyclic tension and bending. Frattura Ed Integrita Strutturale, 2014, 8, 182-190. | 0.9 | 1 |
| 105 | Hydrogen Diffusion in Metals Assisted by Stress: 2D Numerical Modelling and Analysis of Directionality. Solid State Phenomena, 2014, 225, 33-38. | 0.3 | 6 |
| 106 | Fracture behaviour of slightly hypereutectoid steel with different degree of spheroidization. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 800-806. | 3.4 | 1 |
| 107 | Role of the microstructure on the mechanical properties of fully pearlitic eutectoid steels. Frattura Ed Integrita Strutturale, 2014, 8, 424-430. | 0.9 | 10 |
| 108 | Numerical analysis of hydrogen-assisted rolling-contact fatigue of wind turbine bearings. Frattura Ed Integrita Strutturale, 2014, 8, 40-47. | 0.9 | 4 |

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| 109 | Influence of the die geometry on the hydrogen embrittlement susceptibility of cold drawn wires. Engineering Failure Analysis, 2014, 36, 215-225. | 4.0 | 17 |
| 110 | Numerical modelling of cracking path in round bars subjected to cyclic tension and bending. International Journal of Fatigue, 2014, 58, 20-27. | 5.7 | 20 |
| 111 | A macro- and micro-approach to the anisotropic fatigue behaviour of hot-rolled and cold-drawn pearlitic steel. Engineering Fracture Mechanics, 2014, 123, 70-76. | 4.3 | 16 |
| 112 | Fatigue Crack Growth in Pre-Stressing Steel Wires: Transient and Steady-State Regimes. , 2014, , 251-261. | | 0 |
| 113 | Role of Microstructural Anisotropy in the Hydrogen-Assisted Fracture of Pearlitic Steel Notched Bars. International Journal of Fracture, 2013, 182, 149-156. | 2.2 | 5 |
| 114 | Simulations of fatigue crack growth by bluntingâ€"re-sharpening: Plasticity induced crack closure vs. alternative controlling variables. International Journal of Fatigue, 2013, 50, 72-82. | 5.7 | 37 |
| 115 | Hydrogen Embrittlement of Cold Drawn Prestressing Steels: the Role of the Die Inlet Angle. Materials Science, 2013, 49, 226-233. | 0.9 | 5 |
| 116 | Role of plasticity-induced crack closure in fatigue crack growth. Frattura Ed Integrita Strutturale, 2013, 7, 130-137. | 0.9 | 3 |
| 117 | Plastic zone evolution near a crack tip and its role in environmentally assisted cracking. Frattura Ed Integrita Strutturale, 2013, 7, 124-129. | 0.9 | 1 |
| 118 | Strength anisotropy and mixed mode fracture in heavily drawn pearlitic steel. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 1178-1186. | 3.4 | 18 |
| 119 | Transient and Steady State Regimes of Fatigue Crack Growth in High Strength Steel. Key Engineering Materials, 2012, 525-526, 553-556. | 0.4 | 1 |
| 120 | Environmentally-assisted fatigue crack growth in prestressing steel wires. Materials Science, 2012, 47, 764-772. | 0.9 | 1 |
| 121 | Fatigue behaviour of bolted joints. Metals and Materials International, 2012, 18, 553-558. | 3.4 | 9 |
| 122 | Time-dependent Triaxiality Effects on Hydrogen-assisted Micro-damage Evolution in Pearlitic Steel. ISIJ International, 2012, 52, 228-233. | 1.4 | 18 |
| 123 | Modeling of Surface Crack Advance in Round Wires Subjected to Cyclic Loading. , 2012, , 126-135. | | 0 |
| 124 | Modeling of Surface Crack Advance in Round Wires Subjected to Cyclic Loading. Journal of ASTM International, 2012, 9, 1-7. | 0.2 | 0 |
| 125 | Strength Anisotropy in Prestressing Steel Wires. Advanced Structured Materials, 2012, , 259-270. | 0.5 | 0 |
| 126 | Fracture Mechanics Approach to Stress Corrosion Cracking of Pipeline Steels: When Hydrogen Is the Circumstance. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 37-58. | 0.2 | 1 |

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| 127 | Hydrogen Degradation of Cold-Drawn Wires: A Numerical Analysis of Drawing-Induced Residual Stresses and Strains. Corrosion, 2011, 67, 075001-1-075001-8. | 1.1 | 15 |
| 128 | Role of drawing-induced residual stresses and strains in the hydrogen embrittlement susceptibility of prestressing steels. Corrosion Science, 2011, 53, 3346-3355. | 6.6 | 55 |
| 129 | Role of Residual Stresses and Strains Fields Generated by Heat Treatments on the Hydrogen Embrittlement of a Nuclear Reactor Pressure Vessel. , 2011, , . | | 0 |
| 130 | Compliance evolution in round cracked bars under tensile fatigue. Engineering Fracture Mechanics, 2011, 78, 3243-3252. | 4.3 | 11 |
| 131 | Influence of the Microstructure of Eutectoid Steel on the Cyclic Crack Propagation: Pearlite and Spheroidite. International Journal of Fracture, 2011, 171, 209-215. | 2.2 | 2 |
| 132 | Optimization of the simulation of stress-assisted hydrogen diffusion for studies of hydrogen embrittlement of notched bars. Materials Science, 2011, 46, 819-833. | 0.9 | 11 |
| 133 | Numerical and experimental analyses of the plasticity-induced fatigue crack growth in high-strength steels. Construction and Building Materials, 2011, 25, 3935-3940. | 7.2 | 15 |
| 134 | Plasticity-induced crack closure: A contribution to the debate. European Journal of Mechanics, A/Solids, 2011, 30, 105-112. | 3.7 | 9 |
| 135 | Critical stress intensity factors in steel cracked wires. Materials & Design, 2011, 32, 4424-4429. | 5.1 | 8 |
| 136 | Effects of manufacturing-induced residual stresses and strains on hydrogen embrittlement of cold drawn steels. Procedia Engineering, 2011, 10, 3540-3545. | 1.2 | 13 |
| 137 | Fatigue performance of cold drawn prestressing steel: The effect of sudden load changes. Procedia Engineering, 2011, 10, 3546-3551. | 1.2 | 1 |
| 138 | Evaluation by Sharp Indentation of Anisotropic Plastic Behaviour in Progressively Drawn Pearlitic Steel. ISIJ International, 2011, 51, 843-848. | 1.4 | 11 |
| 139 | ICONE19-44017 INFLUENCE OF THE RESIDUAL STRESSES AND STRAINS GENERATED BY HEAT TREATMENTS ON THE HYDROGEN EMBRITTLEMENT OF A NUCLEAR REACTOR PRESSURE VESSEL. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2011, 2011.19, _ICONE1944-_ICONE1944. | 0.0 | 0 |
| 140 | Quantitative Evaluation of Hydrogen Micro-Damage in 316L Austenitic Stainless Steel. , 2010, , . | | 0 |
| 141 | Fatigue and fracture paths in cold drawn pearlitic steel. Engineering Fracture Mechanics, 2010, 77, 2024-2032. | 4.3 | 29 |
| 142 | Failure analysis of a lifting platform for tree pruning. Engineering Failure Analysis, 2010, 17, 739-747. | 4.0 | 13 |
| 143 | Effects of Manufacturing-Induced Residual Stresses and Strains on Hydrogen Embrittlement of Cold Drawn Steels. Advanced Structured Materials, 2010, , 331-341. | 0.5 | 1 |
| 144 | Numerical modelling of crack shape evolution for surface flaws in round bars under tensile loading. Engineering Failure Analysis, 2009, 16, 618-630. | 4.0 | 42 |

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| 145 | A critical review of stress intensity factor solutions for surface cracks in round bars subjected to tension loading. Engineering Failure Analysis, 2009, 16, 794-809. | 4.0 | 60 |
| 146 | Micro- and macro-approach to the fatigue crack growth in progressively drawn pearlitic steels at different R-ratios. International Journal of Fatigue, 2009, 31, 2014-2021. | 5.7 | 55 |
| 147 | Finite-deformation analysis of the crack-tip fields under cyclic loading. International Journal of Solids and Structures, 2009, 46, 1937-1952. | 2.7 | 36 |
| 148 | Micro-fracture maps in progressively drawn pearlitic steels under triaxial stress states. International Journal of Materials Engineering Innovation, 2009, 1, 61. | 0.5 | 6 |
| 149 | Two-dimensional numerical modelling of hydrogen diffusion assisted by stress and strain. , 2009, , . | | 4 |
| 150 | Comments to the paper â€œMesh sensitivity effects on fatigue crack growth by crack-tip blunting and re-sharpeningâ€•by V. Tvergaard [Int. J. Solids Struct. 44 (2007) 1891â€"1899]. International Journal of Solids and Structures, 2008, 45, 1146-1148. | 2.7 | 0 |
| 151 | Delamination fracture of prestressing steel: An engineering approach. Engineering Fracture Mechanics, 2008, 75, 2683-2694. | 4.3 | 19 |
| 152 | Multi-Scale Approach to the Fatigue Crack Propagation in High-Strength Pearlitic Steel Wires. Journal of ASTM International, 2008, 5, 1-15. | 0.2 | 2 |
| 153 | Micro- and Macro-Approach to the Fatigue Crack Propagation in High-Strength Pearlitic Steel Wires. Key Engineering Materials, 2007, 348-349, 681-684. | 0.4 | 6 |
| 154 | Hydrogen assisted cracking in progressively drawn pearlitic steel. Corrosion Science, 2007, 49, 3539-3556. | 6.6 | 28 |
| 155 | Influence of residual stresses and strains generated by cold drawing on hydrogen embrittlement of prestressing steels. Corrosion Science, 2007, 49, 3557-3569. | 6.6 | 23 |
| 156 | Fatigue crack propagation in cold drawn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 468-470, 267-272. | 5.6 | 31 |
| 157 | Large crack tip deformations and plastic crack advance during fatigue. Materials Letters, 2007, 61, 964-967. | 2.6 | 16 |
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