# Ezio Cadoni

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2995627/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 106 papers | 2,043 citations | 218592 26 h-index | 265120 42 g-index |
| 111 all docs | 111 docs citations | 111 times ranked | 1374 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Modern high strength steels under high strain-rate regimes. EPJ Web of Conferences, 2021, 250, 05013. | 0.1 | 0 |
| 2 | Mechanical characterization of 3D printed concrete subjected to dynamic loading. EPJ Web of Conferences, 2021, 250, 01009. | 0.1 | 0 |
| 3 | Experimental investigation on the response of UHP(FR)C at high stress-rates under compression. EPJ Web of Conferences, 2021, 250, 06006. | 0.1 | 0 |
| 4 | Split Hopkinson bar tests on metaconcrete: modeling and numerical simulations. EPJ Web of Conferences, 2021, 250, 02018. | 0.1 | 1 |
| 5 | Laser Metal Deposition of Inconel 718 Alloy and As-built Mechanical Properties Compared to Casting. Materials, 2021, 14, 437. | 1.3 | 21 |
| 6 | Effects of elevated temperature on a tungsten alloy at high strain-rate. EPJ Web of Conferences, 2021, 250, 05004. | 0.1 | 0 |
| 7 | Tensile behaviour of Inconel 718 alloys under extreme conditions of temperature and strain-rate. EPJ Web of Conferences, 2021, 250, 05010. | 0.1 | 0 |
| 8 | Analysis of two parameter identification methods for original and modified Johnson-Cook fracture strains, including numerical comparison and validation of a new blue-brittle dependent fracture model for free-cutting steel 50SiB8. Theoretical and Applied Fracture Mechanics, 2021, 112, 102905. | 2.1 | 14 |
| 9 | Mechanical behaviour of B500A rebars: Effect of elevated temperature and high strain-rate. Fire Safety Journal, 2021, 122, 103321. | 1.4 | 5 |
| 10 | High strain-rate behaviour of as-cast and as-build Inconel 718 alloys at elevated temperatures. Mechanics of Materials, 2021, 159, 103859. | 1.7 | 13 |
| 11 | Dynamic characterization of the layer-interface properties of 3D-printed concrete elements. Case Studies in Construction Materials, 2021, 15, e00780. | 0.8 | 2 |
| 12 | Strain-rate effects on S690QL high strength steel under tensile loading. Journal of Constructional Steel Research, 2020, 175, 106348. | 1.7 | 17 |
| 13 | Multiple Pseudo-Plastic Appearance of the Dynamic Fracture in Quasi-Brittle Materials. Materials, 2020, 13, 4976. | 1.3 | 3 |
| 14 | Dynamic response of UHPFRCs in direct-shear tests. Procedia Structural Integrity, 2020, 28, 933-942. | 0.3 | 4 |
| 15 | High strain-rate behaviour of a Tungsten alloy. Procedia Structural Integrity, 2020, 28, 964-970. | 0.3 | 4 |
| 16 | Dynamic Behaviour of Layered 3D Printed Concrete Elements. RILEM Bookseries, 2020, , 478-488. | 0.2 | 1 |
| 17 | Experimental study on direct tensile behaviour of UHPFRC under high strain-rates. Construction and Building Materials, 2019, 218, 667-680. | 3.2 | 26 |
| 18 | Mechanical behaviour of a very-high strength steel (S960QL) under extreme conditions of high strain rates and elevated temperatures. Fire Safety Journal, 2019, 109, 102869. | 1.4 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Austenitic Stainless Steel Under Extreme Combined Conditions of Loading and Temperature. Journal of Dynamic Behavior of Materials, 2019, 5, 230-240. | 1.1 | 8 |
| 20 | Dynamic Tensile Behaviour of Strain-Hardening Cement-Based Composites (SHCC). EPJ Web of Conferences, 2018, 183, 02015. | 0.1 | 2 |
| 21 | Fiber reinforced mortars based on free Portland-CSA binders under high stress rate. EPJ Web of Conferences, 2018, 183, 04013. | 0.1 | 4 |
| 22 | Behaviour of UHPFRCs in compression under high stress-rates. EPJ Web of Conferences, 2018, 183, 02005. | 0.1 | 1 |
| 23 | Dynamic behaviour of an earthen material under different impact loading conditions. EPJ Web of Conferences, 2018, 183, 02014. | 0.1 | 0 |
| 24 | Response of UHPFRCs in Tension under High Stress Rate. EPJ Web of Conferences, 2018, 183, 04003. | 0.1 | 1 |
| 25 | Mechanical characterization of alloys in extreme conditions of high strain rates and high temperature. IOP Conference Series: Materials Science and Engineering, 2018, 329, 012006. | 0.3 | 0 |
| 26 | Tensile and compressive behaviour of S355 mild steel in a wide range of strain rates. European Physical Journal: Special Topics, 2018, 227, 29-43. | 1.2 | 11 |
| 27 | High strain rates testing and constitutive modeling of B500B reinforcing steel at elevated temperatures. European Physical Journal: Special Topics, 2018, 227, 179-199. | 1.2 | 11 |
| 28 | Advances in the characterization, modelling and simulation of materials subjected to dynamic loading. European Physical Journal: Special Topics, 2018, 227, 1-2. | 1.2 | 0 |
| 29 | Modelling UHPFRC tension behavior under high strain rates. Cement and Concrete Composites, 2018, 91, 209-220. | 4.6 | 16 |
| 30 | Blast effects on steel columns under fire conditions. Journal of Constructional Steel Research, 2017, 136, 1-10. | 1.7 | 25 |
| 31 | Performance of various strain-hardening cement-based composites (SHCC) subject to uniaxial impact tensile loading. Cement and Concrete Research, 2017, 102, 16-28. | 4.6 | 94 |
| 32 | Tensile Test of a HSLA Steel at High Strain Rates with Two Different SHTB Facilities. Procedia Engineering, 2017, 197, 89-98. | 1.2 | 7 |
| 33 | Tensile Behaviour of Commercial Aluminium Alloys Used in Armour Applications at High Strain Rate. Procedia Engineering, 2017, 197, 168-175. | 1.2 | 12 |
| 34 | Dynamic behaviour of cement mortars reinforced with glass and basalt fibres. Composites Part B: Engineering, 2016, 92, 142-150. | 5.9 | 62 |
| 35 | Strain rate behaviour in tension of S355 steel: Base for progressive collapse analysis. Engineering Structures, 2016, 119, 164-173. | 2.6 | 102 |
| 36 | Effects of strain rate on mechanical properties in tension of a commercial aluminium alloy used in armour applications. Procedia Structural Integrity, 2016, 2, 986-993. | 0.3 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | High strain rate response of S355 at high temperatures. Materials and Design, 2016, 94, 467-478. | 3.3 | 46 |
| 38 | Strain rate effects on the mechanical behavior of two Dual Phase steels in tension. European Physical Journal: Special Topics, 2016, 225, 409-421. | 1.2 | 34 |
| 39 | Experimental analysis of the UHPFRCs behavior under tension at high stress rate. European Physical Journal: Special Topics, 2016, 225, 253-264. | 1.2 | 36 |
| 40 | MECHANICAL PROPERTIES OF S355 UNDER EXTREME COUPLED EFFECT OF HIGH TEMPERATURES AND HIGH STRAIN RATES. , 2016, , . | | 2 |
| 41 | The effect of high strain rate on tensile properties of S355 steel at high temperature. , 2016, , 1771-1776. | | 0 |
| 42 | Application of the dynamic characterization of metals in automotive industry. EPJ Web of Conferences, 2015, 94, 05002. | 0.1 | 2 |
| 43 | Influence of the temperature on the tension behaviour of EUROFER97 alloy at high strain rate. EPJ Web of Conferences, 2015, 94, 01022. | 0.1 | 1 |
| 44 | Tensile behaviour of geopolymer-based materials under medium and high strain rates. EPJ Web of Conferences, 2015, 94, 01034. | 0.1 | 4 |
| 45 | Experimental and numerical analysis of the dynamic behaviour in tension of an armour steel for applications in defence industry. EPJ Web of Conferences, 2015, 94, 05004. | 0.1 | 0 |
| 46 | Dynamic behaviour of HPFRCC: The influence of fibres dispersion. EPJ Web of Conferences, 2015, 94, 01064. | 0.1 | 2 |
| 47 | High strain rate response of UHP(FR)C in compression. EPJ Web of Conferences, 2015, 94, 01020. | 0.1 | 2 |
| 48 | Structural-temporal approach for dynamic strength characterization of gabbro-diabase. EPJ Web of Conferences, 2015, 94, 01042. | 0.1 | 3 |
| 49 | Comparative experimental study of dynamic compressive strength of mortar with glass and basalt fibres. EPJ Web of Conferences, 2015, 94, 05008. | 0.1 | 9 |
| 50 | First application of the 3D-MHB on dynamic compressive behavior of UHPC. EPJ Web of Conferences, 2015, 94, 01031. | 0.1 | 7 |
| 51 | Relaxation model for dynamic plastic deformation of materials. EPJ Web of Conferences, 2015, 94, 04039. | 0.1 | 4 |
| 52 | Strain rate effects on reinforcing steels in tension. EPJ Web of Conferences, 2015, 94, 01004. | 0.1 | 17 |
| 53 | Energy absorption at high strain rate of glass fiber reinforced mortars. EPJ Web of Conferences, 2015, 94, 01030. | 0.1 | 3 |
| 54 | Influence of strain rate on the mechanical behaviour in tension of bovine cortical bone. EPJ Web of Conferences, 2015, 94, 03001. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | High strain rate behaviour in tension of steel B500A reinforcing bar. Materials and Structures/Materiaux Et Constructions, 2015, 48, 1803-1813. | 1.3 | 36 |
| 56 | Dynamic Characteristics of Aluminium Alloys at Wide Range of Strain Rates. Proceedings of the Indian National Science Academy, 2015, 79, 587. | 0.5 | 3 |
| 57 | Advances in the Hopkinson bar testing of irradiated/non-irradiated nuclear materials and large specimens. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130197. | 1.6 | 18 |
| 58 | Analysis of the strain-rate behavior of a basalt fiber reinforced natural hydraulic mortar. Cement and Concrete Composites, 2014, 53, 52-58. | 4.6 | 85 |
| 59 | Quasi-Static and Dynamic Tensile Behavior of CP800 Steel. Mechanics of Advanced Materials and Structures, 2014, 21, 531-537. | 1.5 | 19 |
| 60 | Numerical simulation of the high strain-rate behavior of quenched and self-tempered reinforcing steel in tension. Materials & Design, 2014, 57, 156-167. | 5.1 | 19 |
| 61 | Dynamic tensile behaviour of high performance fibre reinforced cementitious composites after high temperature exposure. Mechanics of Materials, 2013, 59, 87-109. | 1.7 | 51 |
| 62 | Mechanical behaviour of quenched and self-tempered reinforcing steel in tension under high strain rate. Materials & Design, 2013, 49, 657-666. | 5.1 | 65 |
| 63 | Dynamic Tensile and Compressive Behaviors of Mild Steel at Wide Range of Strain Rates. Journal of Engineering Mechanics - ASCE, 2013, 139, 1197-1206. | 1.6 | 50 |
| 64 | Concrete behaviour in direct tension tests at high strain rates. Magazine of Concrete Research, 2013, 65, 660-672. | 0.9 | 45 |
| 65 | Mechanical Behavior of a Structural Steel at Different Rates of Loading. , 2013, , 859-868. | | 2 |
| 66 | Mechanical characterization of rock materials at high strain-rate. , 2013, , 137-147. | | 0 |
| 67 | Mechanical characterization of rocks at high strain rate. EPJ Web of Conferences, 2012, 26, 01021. | 0.1 | 4 |
| 68 | Incubation time approach to rock dynamic strength characterization. EPJ Web of Conferences, 2012, 26, 01041. | 0.1 | 1 |
| 69 | Strain rate behaviour of multi-phase and complex-phase steels for automotive applications. EPJ Web of Conferences, 2012, 26, 05003. | 0.1 | 4 |
| 70 | Strain rate effects on mechanical properties in tension of aluminium alloys used in armour applications. EPJ Web of Conferences, 2012, 26, 05004. | 0.1 | 4 |
| 71 | Dynamic behaviour of HPFRCC in tension. EPJ Web of Conferences, 2012, 26, 01014. | 0.1 | 2 |
| 72 | Strain rate behaviour in tension of austenitic stainless steel used for reinforcing bars. Construction and Building Materials, 2012, 35, 399-407. | 3.2 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Tensile behaviour of high performance fibre-reinforced cementitious composites at high strain rates. International Journal of Impact Engineering, 2012, 45, 28-38. | 2.4 | 79 |
| 74 | Dynamic tensile behavior of multi phase high yield strength steel. Materials & Design, 2011, 32, 5091-5098. | 5.1 | 58 |
| 75 | Strain-rate behavior in tension of the tempered martensitic reduced activation steel Eurofer97. Journal of Nuclear Materials, 2011, 414, 360-366. | 1.3 | 40 |
| 76 | Tension and Compression Behavior of Pre-Stressed Steel Strands at High Strain Rate. Applied Mechanics and Materials, 2011, 82, 154-159. | 0.2 | 1 |
| 77 | Strain-Rate Effect on the Tensile Behaviour of High Strength Alloys. Applied Mechanics and Materials, 2011, 82, 124-129. | 0.2 | 7 |
| 78 | Mechanical Behavior of Advanced High Strength Steel at High Strain Rates. Applied Mechanics and Materials, 2011, 82, 178-183. | 0.2 | 5 |
| 79 | Dynamic Characterization of Orthogneiss Rock Subjected to Intermediate and High Strain Rates in Tension. Rock Mechanics and Rock Engineering, 2010, 43, 667-676. | 2.6 | 94 |
| 80 | On the influence of high temperature on the dynamic behaviour of HPFRCC. , 2010, , 1331-1338. | | 0 |
| 81 | Mechanical characterisation of concrete in tension and compression at high strain rate using a modified Hopkinson bar. Magazine of Concrete Research, 2009, 61, 221-230. | 0.9 | 42 |
| 82 | Strain-Rate Sensitivity of a Pultruded E-Glass/Polyester Composite. Journal of Composites for Construction, 2009, 13, 558-564. | 1.7 | 33 |
| 83 | Dynamic behavior of a Mediterranean natural stone under tensile loading. International Journal of Rock Mechanics and Minings Sciences, 2009, 46, 514-520. | 2.6 | 76 |
| 84 | Tensile behaviour of FRC under high strain-rate. Materials and Structures/Materiaux Et Constructions, 2009, 42, 1283-1294. | 1.3 | 67 |
| 85 | Dynamic behaviour of Advanced High Strength Steels used in the automobile structures. , 2009, , . | | 6 |
| 86 | Learning by Seeing: The TEMAS Multimedia Learning Objects for Civil Engineers. TechTrends, 2008, 52, 17-21. | 1.4 | 1 |
| 87 | Analysis of the concrete behaviour in tension at high strain-rate by a modified Hopkinson bar in support of impact resistant structural design. European Physical Journal Special Topics, 2006, 134, 647-652. | 0.2 | 15 |
| 88 | Strain-rate effect on the tensile behaviour of concrete at different relative humidity levels. Materials and Structures/Materiaux Et Constructions, 2001, 34, 21-26. | 1.3 | 156 |
| 89 | Strain-rate effect on the tensile behaviour of concrete at different relative humidity levels. Materials and Structures/Materiaux Et Constructions, 2001, 34, 21-26. | 1.3 | 14 |
| 90 | High-strain-rate tensile behaviour of concrete. Magazine of Concrete Research, 2000, 52, 365-370. | 0.9 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Study of the mechanical properties of plain concrete under dynamic loading. Experimental Mechanics, 1999, 39, 137-141. | 1.1 | 41 |
| 92 | <title>Testing of the Swiss Expo 2001 structural models by fiber optic and whole field optical methods</title>. , 1998, , . | | 0 |
| 93 | <title>Application of ESPI technique to evaluate the crack propagation zone of prenotched clay elements</title>. , 1998, , . | | 1 |
| 94 | Impact Fracture Process and Mechanical Properties of Plain Concrete by Means of an Hopkinson Bar Bundle. European Physical Journal Special Topics, 1997, 07, C3-915-C3-920. | 0.2 | 6 |
| 95 | Precision Measurements of Vehicle Crashworthiness by Means of a Large Hopkinson Bar. European Physical Journal Special Topics, 1997, 07, C3-79-C3-84. | 0.2 | 2 |
| 96 | <title>Crack propagation in clay elements determined by ESPI method</title>. , 1996, 2791, 108. | | 1 |
| 97 | Dynamic Tensile Behaviour of Self Compacting Steel Fibre Reinforced Concrete. Applied Mechanics and Materials, 0, 82, 220-225. | 0.2 | 8 |
| 98 | Dynamic Behaviour of Reinforcing Steel Bars in Tension. Applied Mechanics and Materials, 0, 82, 86-91. | 0.2 | 16 |
| 99 | Analysis of the Strain-Rate Beahavior of a Basalt Fiber Reinforced Mortar. Applied Mechanics and Materials, 0, 82, 196-201. | 0.2 | 4 |
| 100 | Mechanical Characterization of Cement Composites Reinforced with Fiberglass, Carbon Nanotubes or Glass Reinforced Plastic (GRP) at High Strain Rates. Applied Mechanics and Materials, 0, 82, 190-195. | 0.2 | 32 |
| 101 | Threshold Characteristics of Short Pulse Loads Causing Fracture in Concrete and Rocks. Applied Mechanics and Materials, 0, 82, 106-111. | 0.2 | 2 |
| 102 | Mechanical Characterization of Multi Phase Steel at Different Rates of Loading. Materials Science Forum, 0, 710, 421-426. | 0.3 | 3 |
| 103 | Strain Rate Sensitivity of an Aluminium Alloy under Compressive Loads. Advanced Materials Research, 0, 548, 169-173. | 0.3 | 8 |
| 104 | Strain Rate Sensitivity of Die Steel under Compressive Loads. Advanced Materials Research, 0, 585, 412-416. | 0.3 | 1 |
| 105 | Identification Methods of Parameters for Johnson-Cook Constitutive Equation â€“ Comparison. Applied Mechanics and Materials, 0, 566, 97-103. | 0.2 | 7 |
| 106 | Tensile Behaviour of Reinforcing Steels at High Strain Rate and High Temperature. Key Engineering Materials, 0, 711, 791-798. | 0.4 | 4 |