

Emilio Martnez Paeda

List of Publications by Citations

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69
papers

1,348
citations

20
h-index

35
g-index

76
ext. papers

1,927
ext. citations

4.2
avg, IF

6.09
L-index

#	Paper	IF	Citations
69	A phase field formulation for hydrogen assisted cracking. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 342, 742-761	5.7	120
68	Abaqus2Matlab: A suitable tool for finite element post-processing. <i>Advances in Engineering Software</i> , 2017 , 105, 9-16	3.6	87
67	Phase field modelling of crack propagation in functionally graded materials. <i>Composites Part B: Engineering</i> , 2019 , 169, 239-248	10	82
66	Strain gradient plasticity-based modeling of hydrogen environment assisted cracking. <i>Acta Materialia</i> , 2016 , 117, 321-332	8.4	80
65	On fracture in finite strain gradient plasticity. <i>International Journal of Plasticity</i> , 2016 , 80, 154-167	7.6	72
64	Phase field fracture modelling using quasi-Newton methods and a new adaptive step scheme. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 107, 102446	3.7	66
63	Modeling damage and fracture within strain-gradient plasticity. <i>International Journal of Solids and Structures</i> , 2015 , 59, 208-215	3.1	62
62	A cohesive zone framework for environmentally assisted fatigue. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 210-226	4.2	52
61	Strain gradient plasticity modeling of hydrogen diffusion to the crack tip. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 10265-10274	6.7	50
60	Numerical analysis of quasi-static fracture in functionally graded materials. <i>International Journal of Mechanics and Materials in Design</i> , 2015 , 11, 405-424	2.5	47
59	A phase field model for elastic-gradient-plastic solids undergoing hydrogen embrittlement. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 143, 104093	5	40
58	On the suitability of slow strain rate tensile testing for assessing hydrogen embrittlement susceptibility. <i>Corrosion Science</i> , 2020 , 163, 108291	6.8	38
57	The role of plastic strain gradients in the crack growth resistance of metals. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 126, 136-150	5	38
56	A finite element framework for distortion gradient plasticity with applications to bending of thin foils. <i>International Journal of Solids and Structures</i> , 2016 , 96, 288-299	3.1	34
55	Fracture toughness characterization through notched small punch test specimens. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 422-430	5.3	33
54	A phase field formulation for dissolution-driven stress corrosion cracking. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 147, 104254	5	28
53	Damage modeling in Small Punch Test specimens. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 86, 51-60	3.7	26

52	Gradient plasticity crack tip characterization by means of the extended finite element method. <i>Computational Mechanics</i> , 2017 , 59, 831-842	4	25
51	Analysis of the influence of microstructural traps on hydrogen assisted fatigue. <i>Acta Materialia</i> , 2020 , 199, 253-263	8.4	21
50	Phase field predictions of microscopic fracture and R-curve behaviour of fibre-reinforced composites. <i>Composites Science and Technology</i> , 2021 , 202, 108539	8.6	21
49	Non-local plasticity effects on notch fracture mechanics. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 92, 276-287	3.7	20
48	Applications of phase field fracture in modelling hydrogen assisted failures. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 110, 102837	3.7	20
47	On the Finite Element Implementation of Functionally Graded Materials. <i>Materials</i> , 2019 , 12,	3.5	20
46	Mode I crack tip fields: Strain gradient plasticity theory versus J2 flow theory. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 75, 381-388	3.7	19
45	An assessment of phase field fracture: crack initiation and growth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20210021	3	19
44	Phase field modelling of fracture and fatigue in Shape Memory Alloys. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 373, 113504	5.7	18
43	Generalised boundary conditions for hydrogen transport at crack tips. <i>Corrosion Science</i> , 2020 , 173, 108698	6.8	16
42	Size effects in elastic-plastic functionally graded materials. <i>Composite Structures</i> , 2018 , 204, 43-51	5.3	16
41	Adaptive phase field modelling of crack propagation in orthotropic functionally graded materials. <i>Defence Technology</i> , 2021 , 17, 185-195	3	14
40	The Essential Work of Fracture parameters for 3D printed polymer sheets. <i>Materials and Design</i> , 2019 , 181, 107968	8.1	11
39	Crack Growth Resistance in Metallic Alloys: The Role of Isotropic Versus Kinematic Hardening. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	11
38	A Unified Abaqus Implementation of the Phase Field Fracture Method Using Only a User Material Subroutine. <i>Materials</i> , 2021 , 14,	3.5	11
37	A mechanism-based multi-trap phase field model for hydrogen assisted fracture. <i>International Journal of Plasticity</i> , 2021 , 144, 103044	7.6	11
36	Fracture in distortion gradient plasticity. <i>International Journal of Engineering Science</i> , 2020 , 156, 103369	5.7	10
35	Analysis of hydrogen permeation tests considering two different modelling approaches for grain boundary trapping in iron. <i>International Journal of Fracture</i> , 2020 , 223, 17-35	2.3	8

34	Crack tip fields and fracture resistance parameters based on strain gradient plasticity. <i>International Journal of Solids and Structures</i> , 2021 , 208-209, 63-82	3.1	8
33	A phase field model for hydrogen-assisted fatigue. <i>International Journal of Fatigue</i> , 2022 , 154, 106521	5	8
32	Gradient-enhanced statistical analysis of cleavage fracture. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103785	3.7	7
31	Mode II fracture of an MMA adhesive layer: Theory versus experiment. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 86, 104133	3.7	7
30	Steady-state fracture toughness of elastic-plastic solids: Isotropic versus kinematic hardening. <i>Engineering Fracture Mechanics</i> , 2019 , 207, 254-268	4.2	6
29	Numerical study of interface cracking in composite structures using a novel geometrically nonlinear Linear Elastic Brittle Interface Model: Mixed-mode fracture conditions and application to structured interfaces. <i>Composite Structures</i> , 2020 , 248, 112495	5.3	6
28	A simple and robust Abaqus implementation of the phase field fracture method. <i>Applications in Engineering Science</i> , 2021 , 6, 100050	0.4	6
27	Influence of charging conditions on simulated temperature-programmed desorption for hydrogen in metals. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23704-23720	6.7	5
26	Cold Isostatic Pressing to Improve the Mechanical Performance of Additively Manufactured Metallic Components. <i>Materials</i> , 2019 , 12,	3.5	4
25	Creep behaviour and tensile response of adhesively bonded polyethylene joints: Single-Lap and Double-Strap. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 102, 102666	3.4	4
24	A generalised phase field model for fatigue crack growth in elastic-plastic solids with an efficient monolithic solver. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 388, 114286	5.7	4
23	Progress and opportunities in modelling environmentally assisted cracking. <i>RILEM Technical Letters</i> , 6 , 70-77		4
22	Pre-notched dog bone small punch specimens for the estimation of fracture properties. <i>Engineering Failure Analysis</i> , 2019 , 96, 236-240	3.2	4
21	A mechanism-based gradient damage model for metallic fracture. <i>Engineering Fracture Mechanics</i> , 2021 , 255, 107927	4.2	4
20	Simulation of hydrogen permeation through pure iron for trapping and surface phenomena characterisation. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 110, 102818	3.7	3
19	Modelling fatigue crack growth in shape memory alloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	3
18	Mode II Fracture of an Elastic-Plastic Sandwich Layer. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87,	2.7	3
17	Phase field fracture predictions of microscopic bridging behaviour of composite materials. <i>Composite Structures</i> , 2022 , 286, 115242	5.3	2

16	Interaction of Void Spacing and Material Size Effect on Inter-Void Flow Localization. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021 , 88,	2.7	2
15	Essential work of fracture assessment of acrylonitrile butadiene styrene (ABS) processed via fused filament fabrication additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 771-784	3.2	2
14	Cohesive zone modelling of hydrogen assisted fatigue crack growth: The role of trapping. <i>International Journal of Fatigue</i> , 2022 , 162, 106935	5	2
13	A generalised, multi-phase-field theory for dissolution-driven stress corrosion cracking and hydrogen embrittlement. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 104951	5	2
12	CFD simulations of turbulent dust dispersion in the 20 L vessel using OpenFOAM. <i>Powder Technology</i> , 2021 , 397, 117033	5.2	1
11	Comparison of hydrogen diffusivities measured by electrochemical permeation and temperature-programmed desorption in cold-rolled pure iron. <i>Journal of Natural Gas Science and Engineering</i> , 2022 , 98, 104365	4.6	1
10	Mode I and mode II stress intensity factors and dislocation density behaviour in strain gradient plasticity. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 116, 103128	3.7	1
9	Micromechanics-based phase field fracture modelling of CNT composites. <i>Composites Part B: Engineering</i> , 2022 , 236, 109788	10	1
8	Cracking predictions of lithium-ion battery electrodes by X-ray computed tomography and modelling. <i>Journal of Power Sources</i> , 2022 , 526, 231119	8.9	0
7	Mechanism-Based Crack Tip Characterization. <i>Springer Theses</i> , 2018 , 69-81	0.1	
6	Numerical Implementation. <i>Springer Theses</i> , 2018 , 33-66	0.1	
5	The Role of Energetic and Dissipative Length Parameters. <i>Springer Theses</i> , 2018 , 97-111	0.1	
4	SGP-Based Modeling of HEAC. <i>Springer Theses</i> , 2018 , 129-153	0.1	
3	Gradient Plasticity Formulations. <i>Springer Theses</i> , 2018 , 13-31	0.1	
2	Hydrogen Diffusion Towards the Fracture Process Zone. <i>Springer Theses</i> , 2018 , 113-128	0.1	
1	On Fracture in Finite Strain Gradient Plasticity. <i>Springer Theses</i> , 2018 , 83-95	0.1	