

Gilles A Francfort

List of Publications by Year in descending order

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27
papers

2,076
citations

840776

11
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

1066
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational fracture: twenty years after. <i>International Journal of Fracture</i> , 2022, 237, 3-13.	2.2	11
2	Enhancement of elasto-dielectrics by homogenization of active charges. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2021, 156, 392-419.	1.6	5
3	Revisiting nucleation in the phase-field approach to brittle fracture. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 142, 104027.	4.8	86
4	A Two-Dimensional Labile Aether Through Homogenization. <i>Communications in Mathematical Physics</i> , 2019, 367, 599-628.	2.2	4
5	Approximation of a Brittle Fracture Energy with a Constraint of Non-interpenetration. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 228, 867-889.	2.4	31
6	Recovering convexity in non-associated plasticity. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 198-205.	2.1	5
7	Quasistatic evolution in non-associative plasticity revisited. <i>Calculus of Variations and Partial Differential Equations</i> , 2018, 57, 1.	1.7	2
8	Fracture and healing of elastomers: A phase-transition theory and numerical implementation. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 523-551.	4.8	48
9	The taming of plastic slips in von Mises elasto-plasticity. <i>Interfaces and Free Boundaries</i> , 2016, 17, 497-516.	0.8	7
10	Korn-Poincare inequalities for functions with a small jump set. <i>Indiana University Mathematics Journal</i> , 2016, 65, 1373-1399.	0.9	31
11	Isotropy prohibits the loss of strong ellipticity through homogenization in linear elasticity. <i>Comptes Rendus Mathematique</i> , 2016, 354, 1139-1144.	0.3	6
12	A note on the derivation of rigid-plastic models. <i>Nonlinear Differential Equations and Applications</i> , 2016, 23, 1.	0.8	1
13	A case study for uniqueness of elasto-plastic evolutions: The bi-axial test. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2016, 105, 198-227.	1.6	4
14	The elasto-plastic exquisite corpse: A Suquet legacy. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 97, 125-139.	4.8	7
15	The role of a vanishing interfacial layer in perfect elasto-plasticity. <i>Chinese Annals of Mathematics Series B</i> , 2015, 36, 813-828.	0.4	2
16	Loss of ellipticity through homogenization in linear elasticity. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 905-928.	3.3	11
17	A Critical Revisiting of Finite Elasto-Plasticity. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 526-565.	1.9	16
18	Quasi-static Evolution in Nonassociative Plasticity: The Cap Model. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 245-292.	1.9	32

#	ARTICLE	IF	CITATIONS
19	Small-strain heterogeneous elastoplasticity revisited. Communications on Pure and Applied Mathematics, 2012, 65, 1185-1241.	3.1	33
20	Revisiting Energy Release Rates in Brittle Fracture. Journal of Nonlinear Science, 2010, 20, 395-424.	2.1	37
21	The Variational Approach to Fracture. Journal of Elasticity, 2008, 91, 5-148.	1.9	1,167
22	The Variational Approach to Fracture. , 2008, , .		123
23	Quasistatic Crack Growth in Nonlinear Elasticity. Archive for Rational Mechanics and Analysis, 2005, 176, 165-225.	2.4	249
24	Existence and convergence for quasi-static evolution in brittle fracture. Communications on Pure and Applied Mathematics, 2003, 56, 1465-1500.	3.1	144
25	Homogenisation of a class of fourth order equations with application to incompressible elasticity. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1992, 120, 25-46.	1.2	11
26	Quasi-Static Evolution for the Armstrong-Frederick Hardening-Plasticity Model. Applied Mathematics Research Express, 0, , .	1.0	3
27	Un r�sum� de la th�orie variationnelle de la rupture. S�minaire Laurent Schwartz "EDP Et Applications, 0, , 1-11.	0.0	0