

# Pierre Saramito

## List of Publications by Year in descending order

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27  
papers

1,204  
citations

471509

17  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

989  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new constitutive equation for elastoviscoplastic fluid flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 145, 1-14.	2.4	181
2	A new elastoviscoplastic model based on the Herschel-Bulkley viscoplastic model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 158, 154-161.	2.4	176
3	An adaptive finite element method for Bingham fluid flows around a cylinder. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 3317-3341.	6.6	131
4	Progress in numerical simulation of yield stress fluid flows. <i>Rheologica Acta</i> , 2017, 56, 211-230.	2.4	115
5	An adaptive finite element method for viscoplastic fluid flows in pipes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 5391-5412.	6.6	87
6	A Maxwell elasto-brittle rheology for sea ice modelling. <i>Cryosphere</i> , 2016, 10, 1339-1359.	3.9	84
7	Complex fluids. <i>Mathématiques Et Applications</i> , 2016, , .	0.2	42
8	An adaptive finite element method for viscoplastic flows in a square pipe with stick-slip at the wall. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 101-115.	2.4	41
9	A damped Newton algorithm for computing viscoplastic fluid flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 238, 6-15.	2.4	41
10	Vesicle tumbling inhibited by inertia. <i>Physics of Fluids</i> , 2012, 24, .	4.0	39
11	Colloquium: Mechanical formalisms for tissue dynamics. <i>European Physical Journal E</i> , 2015, 38, 121.	1.6	39
12	Computing the dynamics of biomembranes by combining conservative level set and adaptive finite element methods. <i>Journal of Computational Physics</i> , 2014, 263, 328-352.	3.8	29
13	On a modified non-singular log-conformation formulation for Johnson-Segalman viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 211, 16-30.	2.4	26
14	On the equilibrium equation for a generalized biological membrane energy by using a shape optimization approach. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1567-1572.	2.8	25
15	Ice bridges and ridges in the Maxwell-EB sea ice rheology. <i>Cryosphere</i> , 2017, 11, 2033-2058.	3.9	25
16	Modelling lava flow advance using a shallow-depth approximation for three-dimensional cooling of viscoplastic flows. <i>Geological Society Special Publication</i> , 2016, 426, 409-423.	1.3	20
17	A new operator splitting algorithm for elastoviscoplastic flow problems. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 202, 13-21.	2.4	18
18	Improving the mass conservation of the level set method in a finite element context. <i>Comptes Rendus Mathématique</i> , 2010, 348, 535-540.	0.3	16

#	ARTICLE	IF	CITATIONS
19	An adaptive finite element method for the modeling of the equilibrium of red blood cells. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 80, 397-428.	1.6	13
20	Fully implicit methodology for the dynamics of biomembranes and capillary interfaces by combining the level set and Newton methods. <i>Journal of Computational Physics</i> , 2017, 343, 271-299.	3.8	12
21	A new rate-independent tensorial model for suspensions of noncolloidal rigid particles in Newtonian fluids. <i>Journal of Rheology</i> , 2018, 62, 889-903.	2.6	10
22	Laminar shallow viscoplastic fluid flowing through an array of vertical obstacles. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 257, 59-70.	2.4	9
23	Tensorial rheological model for concentrated non-colloidal suspensions: normal stress differences. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	3.4	7
24	A new brittle-elastoviscoplastic fluid based on the Drucker-Prager plasticity. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021, 294, 104584.	2.4	5
25	Stick-slip transition capturing by using an adaptive finite element method. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2004, 38, 249-260.	1.9	3
26	Shear-induced migration in concentrated suspensions: Particle mass conservation, contact pressure and jamming. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2022, 304, 104805.	2.4	2
27	Linking bulk modulus to an unilateral damage yield criterion: A thermodynamic modeling approach. <i>International Journal of Damage Mechanics</i> , 0, , 105678952199120.	4.2	1