Serge Dumont

List of Publications by Year
in descending order

48 papers	560 citations	623734 14 h-index	677142 22 g-index
49 all docs	49 docs citations	49 times ranked	246 citing authors

#	ARTICLE	IF	CITATIONS
1	Back to the Keller-Osserman Condition for Boundary Blow-up Solutions. Advanced Nonlinear Studies, 2007, 7, 271-298.	1.7	75
2	Higher order model for soft and hard elastic interfaces. International Journal of Solids and Structures, 2014, 51, 4137-4148.	2.7	63
3	An asymptotic derivation of a general imperfect interface law for linear multiphysics composites. International Journal of Solids and Structures, 2019, 180-181, 97-107.	2.7	33
4	Effective elastic shear stiffness of a periodic fibrous composite with non-uniform imperfect contact between the matrix and the fibers. International Journal of Solids and Structures, 2014, 51, 1253-1262.	2.7	29
5	An asymptotic approach to the adhesion of thin stiff films. Mechanics Research Communications, 2014, 58, 24-35.	1.8	24
6	On a dual formulation for the growing sandpile problem. European Journal of Applied Mathematics, 2009, 20, 169-185.	2.9	21
7	Effective properties of regular elastic laminated shell composite. Composites Part B: Engineering, 2016, 87, 12-20.	12.0	21
8	Soft and hard interface models for bonded elements. Composites Part B: Engineering, 2018, 153, 480-490.	12.0	20
9	Interface Models in Coupled Thermoelasticity. Technologies, 2021, 9, 17.	5.1	20
10	Decay of solutions to a water wave model with a nonlocal viscous dispersive term. Discrete and Continuous Dynamical Systems, 2010, 27, 1473-1492.	0.9	20
11	Soft and hard anisotropic interface in composite materials. Composites Part B: Engineering, 2016, 90, 58-68.	12.0	19
12	Behavior of laminated shell composite with imperfect contact between the layers. Composite Structures, 2017, 176, 539-546.	5.8	19
13	Wavelet-Galerkin method for periodic heterogeneous media. Computers and Structures, 1996, 61, 55-65.	4.4	17
14	Analysis of fibrous elastic composites with nonuniform imperfect adhesion. Acta Mechanica, 2016, 227, 57-73.	2.1	16
15	Meshfree methods and boundary conditions. International Journal for Numerical Methods in Engineering, 2006, 67, 989-1011.	2.8	14
16	On Saint Venant - Kirchhoff imperfect interfaces. International Journal of Non-Linear Mechanics, 2017, 89, 101-115.	2.6	12
17	Towards nonlinear imperfect interface models including micro-cracks and smooth roughness. Annals of Solid and Structural Mechanics, 2017, 9, 13-27.	0.5	11
18	Inexact primal–dual active set method for solving elastodynamic frictional contact problems. Computers and Mathematics With Applications, 2021, 82, 36-59.	2.7	11

#	Article	IF	Citations
19	An Experimental/Numerical Study on the Interfacial Damage of Bonded Joints for Fibre-Reinforced Polymer Profiles at Service Conditions. Technologies, 2016, 4, 20.	5.1	10
20	Representation of plane elastostatics operators in daubechies wavelets. Computers and Structures, 1996, 60, 561-569.	4.4	9
21	Decay of solutions to a viscous asymptotical model for waterwaves: Kakutaniâ€"Matsuuchi model. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 2883-2896.	1.1	9
22	Higher order interface conditions for piezoelectric spherical hollow composites: asymptotic approach and transfer matrix homogenization method. Composite Structures, 2022, 279, 114760.	5.8	9
23	Characterization of piezoelectric composites with mechanical and electrical imperfect contacts. Journal of Composite Materials, 2016, 50, 1603-1625.	2.4	8
24	An approach for modeling threeâ€phase piezoelectric composites. Mathematical Methods in the Applied Sciences, 2017, 40, 3230-3248.	2.3	8
25	Imperfect interfaces with graded materials and unilateral conditions: theoretical and numerical study. Mathematics and Mechanics of Solids, 2018, 23, 445-460.	2.4	8
26	On the collapsing sandpile problem. Communications on Pure and Applied Analysis, 2010, 10, 625-638.	0.8	8
27	A primal-dual active set method for solving multi-rigid-body dynamic contact problems. Mathematics and Mechanics of Solids, 2018, 23, 489-503.	2.4	7
28	On enhanced descent algorithms for solving frictional multicontact problems: application to the discrete element method. International Journal for Numerical Methods in Engineering, 2013, 93, 1170-1190.	2.8	6
29	Multiscale Modeling of Imperfect Interfaces and Applications. Computational Methods in Applied Sciences (Springer), 2016, , 81-122.	0.3	6
30	Numerical Validation of Multiphysic Imperfect Interfaces Models. Frontiers in Materials, 2020, 7, .	2.4	5
31	Viscoelastic effective properties for composites with rectangular cross-section fibers using the asymptotic homogenization method. Advanced Structured Materials, 2018, , 203-222.	0.5	4
32	A semi-smooth Newton and Primalâ€"Dual Active Set method for Non-Smooth Contact Dynamics. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114153.	6.6	4
33	Numerical analysis of a water wave model with a nonlocal viscous dispersive term using the diffusive approach. Mathematical Methods in the Applied Sciences, 2018, 41, 4810-4826.	2.3	3
34	Assessment of models and methods for pressurized spherical composites. Mathematics and Mechanics of Solids, 2018, 23, 136-147.	2.4	3
35	Higher order adhesive effects in composite beams. European Journal of Mechanics, A/Solids, 2021, 85, 104108.	3.7	3
36	Effective properties of linear random materials: application to Al/SiC and resin/glass composites. Computational Mechanics, 2008, 42, 775-786.	4.0	1

#	Article	IF	Citations
37	4D Remeshing Using a Space-Time Finite Element Method for Elastodynamics Problems. Mathematical and Computational Applications, 2018, 23, 29.	1.3	1
38	An approach for modeling non-ageing linear viscoelastic composites with general periodicity. Composite Structures, 2019, 223, 110927.	5.8	1
39	Decay of solutions to one dimensional nonlinear Schrödinger equations with white noise dispersion. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 2877.	1.1	1
40	Polarization of contact forces in multi-contact systems. European Journal of Computational Mechanics, 2010, 19, 77-88.	0.6	0
41	Numerical solution of the Poisson equation over hypercubes using reduced Chebyshev polynomial bases. Journal of Computational and Applied Mathematics, 2010, 234, 181-191.	2.0	0
42	Numerical solutions to a BBM–Burgers model with a nonlocal viscous term. Numerical Methods for Partial Differential Equations, 2018, 34, 2279-2300.	3.6	0
43	Decay of solutions to a water wave model with a nonlocal viscous term. Afrika Matematika, 2020, 31, 115-127.	0.8	0
44	Application of the Wavelet-element Method to Linear Random Materials. Lecture Notes in Applied and Computational Mechanics, 2004, , 329-337.	2.2	0
45	Derivation of Imperfect Interface Laws for Multi-Physic Composites by a Multiscale Approach: Theoretical and Numerical Studies. Advanced Structured Materials, 2020, , 323-340.	0.5	0
46	Interface Laws for Multi-physic Composites. Lecture Notes in Mechanical Engineering, 2020, , 441-454.	0.4	0
47	Editorial for the Special Issue "Advances in Multiscale and Multifield Solid Material Interfaces". Technologies, 2022, 10, 34.	5.1	0
48	Multiscale Approach for Modelling the Behaviour of Contact Interfaces. , 0, , .		0