

François Jouve

List of Publications by Year in descending order

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32
papers

3,757
citations

516710

16
h-index

552781

26
g-index

32
all docs

32
docs citations

32
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural optimization using sensitivity analysis and a level-set method. Journal of Computational Physics, 2004, 194, 363-393.	3.8	2,015
2	A level-set method for shape optimization. Comptes Rendus Mathematique, 2002, 334, 1125-1130.	0.3	426
3	Shape optimization by the homogenization method. Numerische Mathematik, 1997, 76, 27-68.	1.9	213
4	A level-set method for vibration and multiple loads structural optimization. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3269-3290.	6.6	175
5	Minimum stress optimal design with the level set method. Engineering Analysis With Boundary Elements, 2008, 32, 909-918.	3.7	135
6	Topology optimization for minimum stress design with the homogenization method. Structural and Multidisciplinary Optimization, 2004, 28, 87.	3.5	123
7	Thickness control in structural optimization via a level set method. Structural and Multidisciplinary Optimization, 2016, 53, 1349-1382.	3.5	121
8	Damage and fracture evolution in brittle materials by shape optimization methods. Journal of Computational Physics, 2011, 230, 5010-5044.	3.8	88
9	Shape and topology optimization of the robust compliance via the level set method. ESAIM - Control, Optimisation and Calculus of Variations, 2008, 14, 43-70.	1.3	80
10	Compact Unstructured Representations for Evolutionary Design. Applied Intelligence, 2002, 16, 139-155.	5.3	62
11	Eigenfrequency optimization in optimal design. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3565-3579.	6.6	61
12	Shape and topology optimization. Handbook of Numerical Analysis, 2021, 22, 1-132.	1.8	44
13	Computer Simulation of Lamellar Keratectomy and Laser Myopic Keratomileusis. Journal of Refractive Surgery, 1988, 4, 222-231.	2.3	34
14	A New Optimal Control Approach for the Reconstruction of Extended Inclusions. SIAM Journal on Control and Optimization, 2013, 51, 1372-1394.	2.1	30
15	Coupling the Level Set Method and the Topological Gradient in Structural Optimization. , 2006, , 3-12.		21
16	Elasto-plastic Shape Optimization Using the Level Set Method. SIAM Journal on Control and Optimization, 2018, 56, 556-581.	2.1	20
17	The homogenization method for topology and shape optimization. Single and multiple loads case. Revue Européenne Des Elements, 1996, 5, 649-672.	0.1	19
18	Mechanical inclusions identification by evolutionary computation. Revue Européenne Des Elements, 1996, 5, 619-648.	0.1	18

#	ARTICLE	IF	CITATIONS
19	Topology optimization of structures undergoing brittle fracture. Journal of Computational Physics, 2022, 458, 111048.	3.8	14
20	Optimal design of micro-mechanisms by the homogenization method. Revue Europeenne Des Elements, 2002, 11, 405-416.	0.1	11
21	Molding Direction Constraints in Structural Optimization via a Level-Set Method. Springer Optimization and Its Applications, 2016, , 1-39.	0.9	10
22	Topology optimization in quasi-static plasticity with hardening using a level-set method. Structural and Multidisciplinary Optimization, 0, , .	3.5	9
23	Structural Optimization by the Level-Set Method. , 2003, , 1-15.		6
24	Shape optimization of a dielectric resonator for improving its unloaded quality factor. International Journal of RF and Microwave Computer-Aided Engineering, 2011, 21, 120-126.	1.2	5
25	Simulation numérique de l'endommagement à l'aide du modèle Francfort-Marigo. ESAIM: Proceedings and Surveys, 1998, 3, 1-9.	0.4	4
26	Level set based method for design of compliant mechanisms. European Journal of Computational Mechanics, 2008, 17, 957-968.	0.6	4
27	Structural Shape and Topology Optimization. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 129-173.	0.6	4
28	Représentations non structurales en optimisation topologique de formes par algorithmes évolutifs. ESAIM: Proceedings and Surveys, 2002, 11, 153-179.	0.4	2
29	Shape Optimization with General Objective Functions Using Partial Relaxation. , 2000, , 239-249.		2
30	Structural Optimization by the Homogenization Method. Solid Mechanics and Its Applications, 1999, , 293-300.	0.2	1
31	Shape optimization of an accommodative intra-ocular lens. Comptes Rendus - Mecanique, 2005, 333, 243-248.	2.1	0
32	Shape and Topology Optimization by the Level Set Method: Application to Damage Evolution Modeling. , 2008, , .		0