

# Adrien loseille

## List of Publications by Year in descending order

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61  
papers

1,525  
citations

623734

14  
h-index

677142

22  
g-index

63  
all docs

63  
docs citations

63  
times ranked

347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Mesh Framework Part I: Well-Posed Continuous Interpolation Error. SIAM Journal on Numerical Analysis, 2011, 49, 38-60.	2.3	197
2	Fully anisotropic goal-oriented mesh adaptation for 3D steady Euler equations. Journal of Computational Physics, 2010, 229, 2866-2897.	3.8	157
3	High-order sonic boom modeling based on adaptive methods. Journal of Computational Physics, 2010, 229, 561-593.	3.8	150
4	Continuous Mesh Framework Part II: Validations and Applications. SIAM Journal on Numerical Analysis, 2011, 49, 61-86.	2.3	136
5	A decade of progress on anisotropic mesh adaptation for computational fluid dynamics. CAD Computer Aided Design, 2016, 72, 13-39.	2.7	133
6	Achievement of Global Second Order Mesh Convergence for Discontinuous Flows with Adapted Unstructured Meshes. , 2007, , .		50
7	Anisotropic Adaptive Simulations in Aerodynamics. , 2010, , .		49
8	Optimal 3D Highly Anisotropic Mesh Adaptation Based on the Continuous Mesh Framework. , 2009, , 575-594.		48
9	Metric-orthogonal Anisotropic Mesh Generation. Procedia Engineering, 2014, 82, 403-415.	1.2	39
10	Unstructured Grid Adaptation: Status, Potential Impacts, and Recommended Investments Towards CFD 2030. , 2016, , .		38
11	Cavity-Based Operators for Mesh Adaptation. , 2013, , .		29
12	Parallel Generation of Large-size Adapted Meshes. Procedia Engineering, 2015, 124, 57-69.	1.2	28
13	On 3D Anisotropic Local Remeshing for Surface, Volume and Boundary Layers. , 2009, , 611-630.		28
14	On the Use of Space Filling Curves for Parallel Anisotropic Mesh Adaptation. , 2009, , 337-357.		27
15	Very High Order Anisotropic Metric-Based Mesh Adaptation in 3D. Procedia Engineering, 2016, 163, 353-365.	1.2	26
16	Boundary Layer Mesh Generation and Adaptivity. , 2011, , .		25
17	First benchmark of the Unstructured Grid Adaptation Working Group. Procedia Engineering, 2017, 203, 154-166.	1.2	25
18	Multi-Dimensional Continuous Metric for Mesh Adaptation. , 2006, , 191-214.		25

#	ARTICLE	IF	CITATIONS
19	On the use of anisotropic <i>a posteriori</i> error estimators for the adaptative solution of 3D inviscid compressible flows. International Journal for Numerical Methods in Fluids, 2009, 59, 47-74.	1.6	22
20	Unstructured Mesh Generation and Adaptation. Handbook of Numerical Analysis, 2017, 18, 263-302.	1.8	17
21	Comparing Anisotropic Adaptive Strategies on the Second AIAA Sonic Boom Workshop Geometry. Journal of Aircraft, 2019, 56, 938-952.	2.4	17
22	Verification of Unstructured Grid Adaptation Components. AIAA Journal, 2020, 58, 3947-3962.	2.6	17
23	Robust Boundary Layer Mesh Generation. , 2013, , 493-511.		15
24	Serial and Parallel Mesh Modification Through a Unique Cavity-Based Primitive. , 2014, , 541-558.		15
25	Unstructured Grid Adaptation and Solver Technology for Turbulent Flows. , 2018, , .		14
26	Comparing Unstructured Adaptive Mesh Solutions for the High Lift Common Research Airfoil. AIAA Journal, 2021, 59, 3566-3584.	2.6	14
27	Comparing Anisotropic Error Estimates for the Onera M6 Wing RANS Simulations. , 2018, , .		13
28	Geometry Modeling for Unstructured Mesh Adaptation. , 2019, , .		12
29	Nearfield Anisotropic Mesh Adaptivity for the Third AIAA Sonic Boom Workshop. , 2021, , .		12
30	Anisotropic Norm-Oriented Mesh Adaptation for Compressible Flows. , 2015, , .		11
31	Verification of Unstructured Grid Adaptation Components. , 2019, , .		11
32	Recent Improvements on Cavity-Based Operators for RANS Mesh Adaptation. , 2018, , .		9
33	Metric-based anisotropic mesh adaptation for 3D acoustic boundary element methods. Journal of Computational Physics, 2018, 372, 473-499.	3.8	9
34	Alignment and orthogonality in anisotropic metric-based mesh adaptation. , 2015, , .		8
35	Comparing Anisotropic Output-Based Grid Adaptation Methods by Decomposition. , 2015, , .		8
36	Comparing Unstructured Adaptive Mesh Solutions for the High Lift Common Research Model Airfoil. , 2020, , .		7

#	ARTICLE	IF	CITATIONS
37	Multimodel design strategies applied to sonic boom reduction. European Journal of Computational Mechanics, 2008, 17, 245-269.	0.6	6
38	On a robust boundary layer mesh generation process. , 2017, , .		6
39	Assessment of Anisotropic Mesh Adaptation for High-Lift Prediction of the HL-CRM configuration. , 2017, , .		6
40	On pixel-exact rendering for high-order mesh and solution. Journal of Computational Physics, 2021, 424, 109860.	3.8	6
41	Metric-Based Anisotropic Mesh Adaptation for Three-Dimensional Time-Dependent Problems Involving Moving Geometries. , 2015, , .		5
42	Comparing anisotropic adaptive strategies on the 2nd AIAA sonic boom workshop geometry. , 2017, , .		5
43	An efficient preconditioner for adaptive Fast Multipole accelerated Boundary Element Methods to model time-harmonic 3D wave propagation. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 189-210.	6.6	5
44	Parallel Anisotropic Unstructured Grid Adaptation. , 2019, , .		5
45	Some progress on CFD high lift prediction using metric-based anisotropic mesh adaptation. , 2022, , .		5
46	Anisotropic mesh adaptation for turbomachinery applications. , 2017, , .		4
47	Nonlinear corrector for Reynolds-averaged Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 2019, 91, 557-585.	1.6	4
48	Boundary Representation Tolerance Impacts on Mesh Generation and Adaptation. , 2021, , .		4
49	Parallel Anisotropic Unstructured Grid Adaptation. AIAA Journal, 0, , 1-13.	2.6	4
50	Anisotropic Goal-Based Mesh Adaptation Metric Clarification and Development. , 2022, , .		4
51	$P^{2}$ Cavity Operator and Riemannian Curved Edge Length Optimization: a Path to High-Order Mesh Adaptation. , 2021, , .		3
52	Parametric Study of Nonequilibrium Shock Interference Patterns over a Fuselage-and-Wing Conceptual Vehicle. AIAA Journal, 2021, 59, 4905-4916.	2.6	3
53	Near-Field Anisotropic Mesh Adaptation for the Third AIAA Sonic Boom Workshop. Journal of Aircraft, 2022, 59, 683-696.	2.4	3
54	Verification of Viscous Goal-Based Anisotropic Mesh Adaptation. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
55	Numerical Uncertainties Estimation and Mitigation by Mesh Adaptation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 89-107.	0.3	1
56	Unstructured anisotropic mesh adaptation for 3D RANS turbomachinery applications. , 2019, , .		1
57	Developments on the P <sup>2</sup> cavity operator and BÃ©zier Jacobian correction using the simplex algorithm.. , 2022, , .		1
58	4th AIAA CFD High Lift Prediction Workshop results using metric-based anisotropic mesh adaptation. , 2022, , .		1
59	Non-manifold anisotropic mesh adaptation: application to fluidâ€™structure interaction. Engineering With Computers, 0, , 1.	6.1	0
60	Mesh Adaptation for k-Exact CFD Approximations. Lecture Notes in Computational Science and Engineering, 2020, , 63-74.	0.3	0
61	Using ViZiR 4 to analyze the 4th AIAA CFD High Lift Prediction Workshop Simulations. , 2022, , .		0