

Monique Dauge

List of Publications by Year in descending order

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60
papers

2,889
citations

218381

26
h-index

168136

53
g-index

61
all docs

61
docs citations

61
times ranked

990
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace Hardy inequality for the Euclidean space with a cut and its applications. Journal of Mathematical Analysis and Applications, 2021, 500, 125124.	0.5	1
2	Asymptotics for 2D whispering gallery modes in optical micro-disks with radially varying index. IMA Journal of Applied Mathematics, 2021, 86, 1212-1265.	0.8	6
3	Mathematical analysis of whispering gallery modes in graded index optical micro-disk resonators. European Physical Journal D, 2020, 74, 1.	0.6	4
4	Dirichlet Spectrum of the Fichera Layer. Integral Equations and Operator Theory, 2018, 90, 1.	0.4	7
5	Converging Expansions for Lipschitz Self-Similar Perforations of a Plane Sector. Integral Equations and Operator Theory, 2017, 88, 401-449.	0.4	12
6	Continuity Properties of the Inf-Sup Constant for the Divergence. SIAM Journal on Mathematical Analysis, 2016, 48, 1250-1271.	0.9	15
7	Ground state energy of the magnetic Laplacian on corner domains. Mémoires De La Société Mathématique De France, 2016, 1, 1-138.	0.4	2
8	On the Inequalities of Babuška-Aziz, Friedrichs and Horgan-Payne. Archive for Rational Mechanics and Analysis, 2015, 217, 873-898.	1.1	24
9	Theoretical and Numerical Investigation of the Finite Cell Method. Journal of Scientific Computing, 2015, 65, 1039-1064.	1.1	61
10	The inf-sup constant for the divergence on corner domains. Numerical Methods for Partial Differential Equations, 2015, 31, 439-458.	2.0	14
11	Regularity for Maxwell eigenproblems in photonic crystal fibre modelling. BIT Numerical Mathematics, 2015, 55, 59-80.	1.0	1
12	Spectral asymptotics of the Dirichlet Laplacian in a conical layer. Communications on Pure and Applied Analysis, 2015, 14, 1239-1258.	0.4	13
13	Corner asymptotics of the magnetic potential in the eddy-current model. Mathematical Methods in the Applied Sciences, 2014, 37, 1924-1955.	1.2	7
14	Weighted analytic regularity in polyhedra. Computers and Mathematics With Applications, 2014, 67, 807-817.	1.4	13
15	Extracting generalized edge flux intensity functions with the quasidual function method along circular 3-D edges. International Journal of Fracture, 2013, 181, 25-50.	1.1	9
16	ANALYTIC REGULARITY FOR LINEAR ELLIPTIC SYSTEMS IN POLYGONS AND POLYHEDRA. Mathematical Models and Methods in Applied Sciences, 2012, 22, 1250015.	1.7	54
17	Plane waveguides with corners in the small angle limit. Journal of Mathematical Physics, 2012, 53, .	0.5	29
18	Quantum waveguides with corners. ESAIM: Proceedings and Surveys, 2012, 35, 14-45.	0.4	14

#	ARTICLE	IF	CITATIONS
19	Discrete spectrum of a model Schrödinger operator on the half-plane with Neumann conditions. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2012, 63, 203-231.	0.7	18
20	Eddy Currents and Corner Singularities. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 679-682.	1.2	5
21	Discrete Compactness for the p -Version of Discrete Differential Forms. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 135-158.	1.1	35
22	Circular edge singularities for the Laplace equation and the elasticity system in 3-D domains. <i>International Journal of Fracture</i> , 2011, 168, 31-52.	1.1	11
23	On the influence of the geometry on skin effect in electromagnetism. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1053-1068.	3.4	14
24	Uniform estimates for transmission problems with high contrast in heat conduction and electromagnetism. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 370, 555-572.	0.5	10
25	Comportement asymptotique à haute conductivité de l'épaisseur de peau en électromagnétisme. <i>Comptes Rendus Mathématique</i> , 2010, 348, 385-390.	0.1	7
26	KOITER ESTIMATE REVISITED. <i>Mathematical Models and Methods in Applied Sciences</i> , 2010, 20, 1-42.	1.7	42
27	Sparse Tensor Product Wavelet Approximation of Singular Functions. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2203-2228.	0.9	25
28	Selfsimilar Perturbation near a Corner: Matching Versus Multiscale Expansions for a Model Problem. <i>International Mathematical Series</i> , 2010, , 95-134.	0.3	17
29	Edge stress intensity functions in 3-D anisotropic composites. <i>Composites Science and Technology</i> , 2008, 68, 1216-1224.	3.8	4
30	Discrete Compactness for the hp Version of Rectangular Edge Finite Elements. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 979-1004.	1.1	35
31	Asymptotics for the Low-Lying Eigenstates of the Schrödinger Operator with Magnetic Field near Corners. <i>Annales Henri Poincaré</i> , 2006, 7, 899-931.	0.8	38
32	On the asymptotic behaviour of the discrete spectrum in buckling problems for thin plates. <i>Mathematical Methods in the Applied Sciences</i> , 2006, 29, 789-817.	1.2	9
33	Edge Stress Intensity Functions in Polyhedral Domains and their Extraction by a Quasidual Function Method. <i>International Journal of Fracture</i> , 2005, 136, 37-73.	1.1	35
34	EXPONENTIAL CONVERGENCE OF hp -FEM FOR MAXWELL EQUATIONS WITH WEIGHTED REGULARIZATION IN POLYGONAL DOMAINS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2005, 15, 575-622.	1.7	71
35	Edge flux intensity functions in polyhedral domains and their extraction by a quasidual function method. <i>International Journal of Fracture</i> , 2004, 129, 97-130.	1.1	26
36	A Quasi-Dual Function Method for Extracting Edge Stress Intensity Functions. <i>SIAM Journal on Mathematical Analysis</i> , 2004, 35, 1177-1202.	0.9	46

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37	Anisotropic regularity results for Laplace and Maxwell operators in a polyhedron. <i>Comptes Rendus Mathematique</i> , 2003, 336, 565-570.	0.1	18
38	Computation of resonance frequencies for Maxwell equations in non-smooth domains. <i>Lecture Notes in Computational Science and Engineering</i> , 2003, , 125-161.	0.1	38
39	Crack Singularities for General Elliptic Systems. <i>Mathematische Nachrichten</i> , 2002, 235, 29-49.	0.4	61
40	Weighted regularization of Maxwell equations in polyhedral domains. <i>Numerische Mathematik</i> , 2002, 93, 239-277.	0.9	199
41	Fast semi-analytic computation of elastic edge singularities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 2111-2134.	3.4	30
42	Singularities of Electromagnetic Fields in Polyhedral Domains. <i>Archive for Rational Mechanics and Analysis</i> , 2000, 151, 221-276.	1.1	255
43	The Influence of Lateral Boundary Conditions on the Asymptotics in Thin Elastic Plates. <i>SIAM Journal on Mathematical Analysis</i> , 2000, 31, 305-345.	0.9	44
44	Maxwell and Lamé eigenvalues on polyhedra. <i>Mathematical Methods in the Applied Sciences</i> , 1999, 22, 243-258.	1.2	91
45	Singularities of Maxwell interface problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 1999, 33, 627-649.	0.8	189
46	Edge layers in thin elastic plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998, 157, 335-347.	3.4	13
47	On Representation Formulas and Radiation Conditions. <i>Mathematical Methods in the Applied Sciences</i> , 1997, 20, 133-150.	1.2	17
48	Asymptotics of arbitrary order for a thin elastic clamped plate, I. Optimal error estimates. <i>Asymptotic Analysis</i> , 1996, 13, 167-197.	0.2	49
49	Invertibility of the biharmonic single layer potential operator. <i>Integral Equations and Operator Theory</i> , 1996, 24, 46-67.	0.4	41
50	Stable Asymptotics for Elliptic Systems on Plane Domains with Corners. <i>Communications in Partial Differential Equations</i> , 1994, 19, 1677-1726.	1.0	24
51	Construction of Corner Singularities for Agmon-Douglis-Nirenberg Elliptic Systems. <i>Mathematische Nachrichten</i> , 1993, 162, 209-237.	0.4	50
52	General edge asymptotics of solutions of second-order elliptic boundary value problems I. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1993, 123, 109-155.	0.8	45
53	Coefficients of the Singularities for Elliptic Boundary Value Problems on Domains with Conical Points. III: Finite Element Methods on Polygonal Domains. <i>SIAM Journal on Numerical Analysis</i> , 1992, 29, 136-155.	1.1	70
54	Neumann and mixed problems on curvilinear polyhedra. <i>Integral Equations and Operator Theory</i> , 1992, 15, 227-261.	0.4	134

#	ARTICLE	IF	CITATIONS
55	Stationary Stokes and Navier-Stokes Systems on Two- or Three-Dimensional Domains with Corners. Part I. Linearized Equations. SIAM Journal on Mathematical Analysis, 1989, 20, 74-97.	0.9	234
56	Oblique derivative and interface problems on polygonal domains and networks. Communications in Partial Differential Equations, 1989, 14, 1147-1192.	1.0	20
57	Error estimates on the coefficients obtained by the singular function method. Numerical Functional Analysis and Optimization, 1989, 10, 1077-1113.	0.6	15
58	Regularité gévrey pour le problème de Dirichlet dans des domaines à singularités coniques. Communications in Partial Differential Equations, 1985, 10, 391-431.	1.0	17
59	Second membre analytique pour un problème aux limites elliptique d'ordre $2m$ sur un polygone. Communications in Partial Differential Equations, 1984, 9, 169-195.	1.0	2
60	Opérateur de Stokes dans des espaces de Sobolev à poids sur des domaines anguleux. Canadian Journal of Mathematics, 1982, 34, 853-882.	0.3	12