

# 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  | Singularities of Electromagnetic Fields in Polyhedral Domains. <i>Archive for Rational Mechanics and Analysis</i> , 2000, 151, 221-276.   | 1.1 | 255       |
| 2  | Stationary Stokes and Navier-Stokes Systems on Two- or Three-Dimensional Domains with Corners. Part I. Linearized Equations. <i>SIAM Journal on Mathematical Analysis</i> , 1989, 20, 74-97.                            | 0.9 | 234       |
| 3  | Weighted regularization of Maxwell equations in polyhedral domains. <i>Numerische Mathematik</i> , 2002, 93, 239-277.   | 0.9 | 199       |
| 4  | Singularities of Maxwell interface problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 1999, 33, 627-649.   | 0.8 | 189       |
| 5  | Neumann and mixed problems on curvilinear polyhedra. <i>Integral Equations and Operator Theory</i> , 1992, 15, 227-261.   | 0.4 | 134       |
| 6  | Maxwell and Lamé eigenvalues on polyhedra. <i>Mathematical Methods in the Applied Sciences</i> , 1999, 22, 243-258.   | 1.2 | 91        |
| 7  | 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        |
| 8  | 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        |
| 9  | Crack Singularities for General Elliptic Systems. <i>Mathematische Nachrichten</i> , 2002, 235, 29-49.  | 0.4 | 61        |
| 10 | Theoretical and Numerical Investigation of the Finite Cell Method. <i>Journal of Scientific Computing</i> , 2015, 65, 1039-1064.  | 1.1 | 61        |
| 11 | ANALYTIC REGULARITY FOR LINEAR ELLIPTIC SYSTEMS IN POLYGONS AND POLYHEDRA. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, 1250015.  | 1.7 | 54        |
| 12 | Construction of Corner Singularities for Agmon-Douglis-Nirenberg Elliptic Systems. <i>Mathematische Nachrichten</i> , 1993, 162, 209-237.   | 0.4 | 50        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | 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        |
| 17 | KOITER ESTIMATE REVISITED. <i>Mathematical Models and Methods in Applied Sciences</i> , 2010, 20, 1-42.   | 1.7 | 42        |
| 18 | Invertibility of the biharmonic single layer potential operator. <i>Integral Equations and Operator Theory</i> , 1996, 24, 46-67.   | 0.4 | 41        |

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|----|---|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | 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        |
| 23 | Discrete Compactness for the $p$ -Version of Discrete Differential Forms. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 135-158.                                  | 1.1 | 35        |
| 24 | Fast semi-analytic computation of elastic edge singularities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 2111-2134.                        | 3.4 | 30        |
| 25 | Plane waveguides with corners in the small angle limit. <i>Journal of Mathematical Physics</i> , 2012, 53, .  | 0.5 | 29        |
| 26 | 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        |
| 27 | Sparse Tensor Product Wavelet Approximation of Singular Functions. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2203-2228.                                    | 0.9 | 25        |
| 28 | Stable Asymptotics for Elliptic Systems on Plane Domains with Corners. <i>Communications in Partial Differential Equations</i> , 1994, 19, 1677-1726.                     | 1.0 | 24        |
| 29 | On the Inequalities of Babuška-Aziz, Friedrichs and Horgan-Payne. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 217, 873-898.                                | 1.1 | 24        |
| 30 | Oblique derivative and interface problems on polygonal domains and networks. <i>Communications in Partial Differential Equations</i> , 1989, 14, 1147-1192.               | 1.0 | 20        |
| 31 | Anisotropic regularity results for Laplace and Maxwell operators in a polyhedron. <i>Comptes Rendus Mathématique</i> , 2003, 336, 565-570.                                | 0.1 | 18        |
| 32 | 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        |
| 33 | Regularité gevrey pour le probleme de dirichlet dans des domaines a singularites coniques. <i>Communications in Partial Differential Equations</i> , 1985, 10, 391-431.   | 1.0 | 17        |
| 34 | On Representation Formulas and Radiation Conditions. <i>Mathematical Methods in the Applied Sciences</i> , 1997, 20, 133-150.   | 1.2 | 17        |
| 35 | Selfsimilar Perturbation near a Corner: Matching Versus Multiscale Expansions for a Model Problem. <i>International Mathematical Series</i> , 2010, , 95-134.             | 0.3 | 17        |
| 36 | Error estimates on the coefficients obtained by the singular function method. <i>Numerical Functional Analysis and Optimization</i> , 1989, 10, 1077-1113.                | 0.6 | 15        |

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|----|--|-----|-----------|
| 37 | Continuity Properties of the Inf-Sup Constant for the Divergence. SIAM Journal on Mathematical Analysis, 2016, 48, 1250-1271.  | 0.9 | 15        |
| 38 | On the influence of the geometry on skin effect in electromagnetism. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1053-1068.                              | 3.4 | 14        |
| 39 | Quantum waveguides with corners. ESAIM: Proceedings and Surveys, 2012, 35, 14-45.  | 0.4 | 14        |
| 40 | The inf-sup constant for the divergence on corner domains. Numerical Methods for Partial Differential Equations, 2015, 31, 439-458.  | 2.0 | 14        |
| 41 | Edge layers in thin elastic plates. Computer Methods in Applied Mechanics and Engineering, 1998, 157, 335-347.   | 3.4 | 13        |
| 42 | Weighted analytic regularity in polyhedra. Computers and Mathematics With Applications, 2014, 67, 807-817.   | 1.4 | 13        |
| 43 | Spectral asymptotics of the Dirichlet Laplacian in a conical layer. Communications on Pure and Applied Analysis, 2015, 14, 1239-1258.  | 0.4 | 13        |
| 44 | Converging Expansions for Lipschitz Self-Similar Perforations of a Plane Sector. Integral Equations and Operator Theory, 2017, 88, 401-449.                                    | 0.4 | 12        |
| 45 | Operateur de Stokes Dans des Espaces de Sobolev a Poids sur des Domaines Anguleux. Canadian Journal of Mathematics, 1982, 34, 853-882.   | 0.3 | 12        |
| 46 | Circular edge singularities for the Laplace equation and the elasticity system in 3-D domains. International Journal of Fracture, 2011, 168, 31-52.                            | 1.1 | 11        |
| 47 | Uniform estimates for transmission problems with high contrast in heat conduction and electromagnetism. Journal of Mathematical Analysis and Applications, 2010, 370, 555-572. | 0.5 | 10        |
| 48 | On the asymptotic behaviour of the discrete spectrum in buckling problems for thin plates. Mathematical Methods in the Applied Sciences, 2006, 29, 789-817.                    | 1.2 | 9         |
| 49 | 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         |
| 50 | Comportement asymptotique à haute conductivité de l'épaisseur de peau en électromagnétisme. Comptes Rendus Mathématique, 2010, 348, 385-390.                                   | 0.1 | 7         |
| 51 | Corner asymptotics of the magnetic potential in the eddy-current model. Mathematical Methods in the Applied Sciences, 2014, 37, 1924-1955.                                     | 1.2 | 7         |
| 52 | Dirichlet Spectrum of the Fichera Layer. Integral Equations and Operator Theory, 2018, 90, 1.  | 0.4 | 7         |
| 53 | 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         |
| 54 | Eddy Currents and Corner Singularities. IEEE Transactions on Magnetics, 2012, 48, 679-682.   | 1.2 | 5         |

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|----|--|-----|-----------|
| 55 | Edge stress intensity functions in 3-D anisotropic composites. Composites Science and Technology, 2008, 68, 1216-1224.   | 3.8 | 4         |
| 56 | Mathematical analysis of whispering gallery modes in graded index optical micro-disk resonators. European Physical Journal D, 2020, 74, 1.                       | 0.6 | 4         |
| 57 | Second membre analytique pour un probleme aux limites elliptique d order 2m sur un polygone. Communications in Partial Differential Equations, 1984, 9, 169-195. | 1.0 | 2         |
| 58 | Ground state energy of the magnetic Laplacian on corner domains. MÃ©moires De La SociÃ©tÃ© MathÃ©matique De France, 2016, 1, 1-138.                              | 0.4 | 2         |
| 59 | Regularity for Maxwell eigenproblems in photonic crystal fibre modelling. BIT Numerical Mathematics, 2015, 55, 59-80.  | 1.0 | 1         |
| 60 | 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         |