

# Alexandre Girouard

## List of Publications by Year in descending order

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22  
papers

394  
citations

933447

10  
h-index

794594

19  
g-index

22  
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22  
docs citations

22  
times ranked

96  
citing authors

#	ARTICLE	IF	CITATIONS
1	From Steklov to Neumann via homogenisation. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 239, 981-1023.	2.4	7
2	Continuity of eigenvalues and shape optimisation for Laplace and Steklov problems. <i>Geometric and Functional Analysis</i> , 2021, 31, 513-561.	1.8	11
3	Large Steklov eigenvalues via homogenisation on manifolds. <i>Inventiones Mathematicae</i> , 2021, 226, 1011-1056.	2.5	5
4	The Steklov and Laplacian spectra of Riemannian manifolds with boundary. <i>Journal of Functional Analysis</i> , 2020, 278, 108409.	1.4	9
5	Hypersurfaces with Prescribed Boundary and Small Steklov Eigenvalues. <i>Canadian Mathematical Bulletin</i> , 2020, 63, 46-57.	0.5	2
6	Steklov Eigenvalues of Submanifolds with Prescribed Boundary in Euclidean Space. <i>Journal of Geometric Analysis</i> , 2019, 29, 1811-1834.	1.0	14
7	Compact manifolds with fixed boundary and large Steklov eigenvalues. <i>Proceedings of the American Mathematical Society</i> , 2019, 147, 3813-3827.	0.8	10
8	THE STEKLOV SPECTRUM OF CUBOIDS. <i>Mathematika</i> , 2019, 65, 272-310.	0.5	7
9	Large spectral gaps for Steklov eigenvalues under volume constraints and under localized conformal deformations. <i>Annals of Global Analysis and Geometry</i> , 2018, 54, 529-539.	0.6	7
10	The Steklov spectrum and coarse discretizations of manifolds with boundary. <i>Pure and Applied Mathematics Quarterly</i> , 2018, 14, 357-392.	0.4	12
11	Spectral geometry of the Steklov problem (Survey article). <i>Journal of Spectral Theory</i> , 2017, 7, 321-359.	0.8	107
12	Steklov Eigenvalues and Quasiconformal Maps of Simply Connected Planar Domains. <i>Archive for Rational Mechanics and Analysis</i> , 2016, 219, 903-936.	2.4	9
13	The Steklov spectrum of surfaces: asymptotics and invariants. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2014, 157, 379-389.	0.4	21
14	The spectral gap of graphs and Steklov eigenvalues on surfaces. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2014, 21, 19-27.	0.6	4
15	Isoperimetric control of the spectrum of a compact hypersurface. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2013, 2013, .	0.9	1
16	Uniform stability of the Dirichlet spectrum for rough outer perturbations. <i>Journal of Spectral Theory</i> , 2013, 3, 575-599.	0.8	2
17	Upper bounds for Steklov eigenvalues on surfaces. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2012, 19, 77-85.	0.6	19
18	Isoperimetric control of the Steklov spectrum. <i>Journal of Functional Analysis</i> , 2011, 261, 1384-1399.	1.4	58

#	ARTICLE	IF	CITATIONS
19	Shape optimization for low Neumann and Steklov eigenvalues. <i>Mathematical Methods in the Applied Sciences</i> , 2010, 33, 501-516.	2.3	17
20	On the Hersch-Payne-Schiffer inequalities for Steklov eigenvalues. <i>Functional Analysis and Its Applications</i> , 2010, 44, 106-117.	0.4	26
21	Fundamental Tone, Concentration of Density, and Conformal Degeneration on Surfaces. <i>Canadian Journal of Mathematics</i> , 2009, 61, 548-565.	0.6	8
22	Maximization of the second positive Neumann eigenvalue for planar domains. <i>Journal of Differential Geometry</i> , 2009, 83, .	1.1	38