Alexandre Girouard

List of Publications by Year
in descending order

22 papers	394 citations	933447 10 h-index	794594 19 g-index
22 all docs	22 docs citations	22 times ranked	96 citing authors

#	Article	IF	Citations
1	Spectral geometry of the Steklov problem (Survey article). Journal of Spectral Theory, 2017, 7, 321-359.	0.8	107
2	Isoperimetric control of the Steklov spectrum. Journal of Functional Analysis, 2011, 261, 1384-1399.	1.4	58
3	Maximization of the second positive Neumann eigenvalue for planar domains. Journal of Differential Geometry, 2009, 83, .	1.1	38
4	On the Hersch-Payne-Schiffer inequalities for Steklov eigenvalues. Functional Analysis and Its Applications, 2010, 44, 106-117.	0.4	26
5	The Steklov spectrum of surfaces: asymptotics and invariants. Mathematical Proceedings of the Cambridge Philosophical Society, 2014, 157, 379-389.	0.4	21
6	Upper bounds for Steklov eigenvalues on surfaces. Electronic Research Announcements in Mathematical Sciences, 2012, 19, 77-85.	0.6	19
7	Shape optimization for low Neumann and Steklov eigenvalues. Mathematical Methods in the Applied Sciences, 2010, 33, 501-516.	2.3	17
8	Steklov Eigenvalues of Submanifolds with Prescribed Boundary in Euclidean Space. Journal of Geometric Analysis, 2019, 29, 1811-1834.	1.0	14
9	The Steklov spectrum and coarse discretizations of manifolds with boundary. Pure and Applied Mathematics Quarterly, 2018, 14, 357-392.	0.4	12
10	Continuity of eigenvalues and shape optimisation for Laplace and Steklov problems. Geometric and Functional Analysis, 2021, 31, 513-561.	1.8	11
11	Compact manifolds with fixed boundary and large Steklov eigenvalues. Proceedings of the American Mathematical Society, 2019, 147, 3813-3827.	0.8	10
12	Steklov Eigenvalues and Quasiconformal Maps of Simply Connected Planar Domains. Archive for Rational Mechanics and Analysis, 2016, 219, 903-936.	2.4	9
13	The Steklov and Laplacian spectra of Riemannian manifolds with boundary. Journal of Functional Analysis, 2020, 278, 108409.	1.4	9
14	Fundamental Tone, Concentration of Density, and Conformal Degeneration on Surfaces. Canadian Journal of Mathematics, 2009, 61, 548-565.	0.6	8
15	Large spectral gaps for Steklov eigenvalues under volume constraints and under localized conformal deformations. Annals of Global Analysis and Geometry, 2018, 54, 529-539.	0.6	7
16	THE STEKLOV SPECTRUM OF CUBOIDS. Mathematika, 2019, 65, 272-310.	0.5	7
17	From Steklov to Neumann via homogenisation. Archive for Rational Mechanics and Analysis, 2021, 239, 981-1023.	2.4	7
18	Large Steklov eigenvalues via homogenisation on manifolds. Inventiones Mathematicae, 2021, 226, 1011-1056.	2.5	5

#	Article	IF	Citations
19	The spectral gap of graphs and Steklov eigenvalues on surfaces. Electronic Research Announcements in Mathematical Sciences, 2014, 21, 19-27.	0.6	4
20	Uniform stability of the Dirichlet spectrum for rough outer perturbations. Journal of Spectral Theory, 2013, 3, 575-599.	0.8	2
21	Hypersurfaces with Prescribed Boundary and Small Steklov Eigenvalues. Canadian Mathematical Bulletin, 2020, 63, 46-57.	0.5	2
22	Isoperimetric control of the spectrum of a compact hypersurface. Journal Fur Die Reine Und Angewandte Mathematik, 2013, 2013, .	0.9	1