

# Stéphane Louboutin

## List of Publications by Year in descending order

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114  
papers

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citations

623734

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713466

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116  
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116  
docs citations

116  
times ranked

74  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upper bounds on residues of Dedekind zeta functions of non-normal totally real cubic fields. Acta Arithmetica, 2021, 198, 233-256.	0.4	0
2	On Ennola's Conjecture on Non-Galois Cubic Number Fields with Exceptional Units. Moscow Mathematical Journal, 2021, 21, 789-805.	0.4	0
3	Second Moment Of Dirichlet $L$ -Functions, Character Sums Over Subgroups And Upper Bounds On Relative Class Numbers. Quarterly Journal of Mathematics, 2021, 72, 1379-1399.	0.8	3
4	On the continued fraction expansions of $\frac{1}{\sqrt{p}}$ and $\frac{1}{\sqrt{2p}}$ for Primes $p \equiv 3 \pmod{4}$ . Comptes Rendus Mathematique, 2021, 359, 1201-1205.	0.3	0
5	On the Discriminants of the Powers of an Algebraic Integer. Canadian Mathematical Bulletin, 2020, 63, 481-483.	0.5	0
6	Non-Galois cubic number fields with exceptional units. Part II. Journal of Number Theory, 2020, 206, 62-80.	0.4	1
7	On the Continued Fraction Expansions of $\sqrt{p}$ and $\sqrt{2p}$ for Primes $p \equiv 3 \pmod{4}$ . , 2020, , 175-178.		2
8	When is the order generated by a cubic, quartic or quintic algebraic unit Galois invariant: three conjectures. , 2020, 70, 905-919.		0
9	Representation of the elements of the finite field $\mathbb{F}_p$ by fractions. Periodica Mathematica Hungarica, 2019, 79, 218-220.	0.9	1
10	Twisted quadratic moments for Dirichlet $L$ -functions at $s=2$ . Publicationes Mathematicae, 2019, 95, 393-400.	0.2	0
11	Upper bounds on $L(1, \chi)$ taking into account a finite set of prime ideals. Acta Arithmetica, 2018, 182, 249-269.	0.4	0
12	Upper bounds on $L(1, \chi)$ taking into account ramified prime ideals. Journal of Number Theory, 2017, 177, 60-72.	0.4	0
13	Fundamental units for a family of totally real cubic orders and the diophantine equation $u(u+a)(u+a^2) = T_j$ . $10.784314$ $\frac{rgBT}{Over}$	$0.5$	$1$
14	Simple zeros of Dedekind zeta functions. Functiones Et Approximatio, Commentarii Mathematici, 2017, 56, .	0.3	0
15	Non-Galois cubic number fields with exceptional units. Publicationes Mathematicae, 2017, 91, 153-170.	0.2	7
16	Discriminants of cyclic cubic orders. Journal of Number Theory, 2016, 168, 64-71.	0.4	1
17	Discriminants of $n$ -orders. International Journal of Number Theory, 2016, 12, 1899-1905.	0.5	1
18	Dedekind Sums, Mean Square Value of $L$ -Functions at $s=1$ and Upper Bounds on Relative Class Numbers. Bulletin of the Polish Academy of Sciences Mathematics, 2016, 64, 165-174.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Real zeros of Dedekind zeta functions. <i>International Journal of Number Theory</i> , 2015, 11, 843-848.	0.5	5
20	Determination of the orders generated by a cyclic cubic unit that are Galois invariant. <i>Journal of Number Theory</i> , 2015, 148, 33-39.	0.4	3
21	TWISTED QUADRATIC MOMENTS FOR DIRICHLET L-FUNCTIONS. <i>Bulletin of the Korean Mathematical Society</i> , 2015, 52, 2095-2105.	0.3	6
22	A twisted quadratic moment for Dirichlet $L$ -functions. <i>Proceedings of the American Mathematical Society</i> , 2014, 142, 1539-1544.	0.8	10
23	Upper bounds on relative class numbers of cyclotomic fields. <i>Mathematica Slovaca</i> , 2014, 64, 21-26.	0.6	1
24	On the fundamental units of some cubic orders generated by units. <i>Acta Arithmetica</i> , 2014, 165, 283-299.	0.4	7
25	The second and fourth moments of theta functions at their central point. <i>Journal of Number Theory</i> , 2013, 133, 1186-1193.	0.4	8
26	Resultants of Chebyshev Polynomials: A Short Proof. <i>Canadian Mathematical Bulletin</i> , 2013, 56, 602-605.	0.5	4
27	On positive real zeros of theta and $L$ -functions associated with real, even and primitive characters. <i>Publicationes Mathematicae</i> , 2013, 83, 643-665.	0.2	2
28	On the size of $L(1, \chi)$ and S. Chowla's hypothesis implying that $L(1, \chi) \neq 0$ for $s > 0$ and for real characters $\chi$ . <i>Colloquium Mathematicum</i> , 2013, 130, 79-90.	0.3	0
29	On the fundamental units of a totally real cubic order generated by a unit. <i>Proceedings of the American Mathematical Society</i> , 2012, 140, 429-436.	0.8	4
30	The class number one problem for some non-normal CM-fields of degree $2p$ . <i>Journal of Number Theory</i> , 2012, 132, 1793-1806.	0.4	3
31	Upper bounds for residues of Dedekind zeta functions and class numbers of cubic and quartic number fields. <i>Mathematics of Computation</i> , 2011, 80, 1813-1822.	2.1	5
32	Mean values of $L$ -functions and relative class numbers of cyclotomic fields. <i>Publicationes Mathematicae</i> , 2011, 78, 647-658.	0.2	9
33	Some quartic number fields containing an imaginary quadratic subfield. <i>Colloquium Mathematicum</i> , 2011, 122, 139-148.	0.3	0
34	On some cubic or quartic algebraic units. <i>Journal of Number Theory</i> , 2010, 130, 956-960.	0.4	6
35	On the Ono invariants of imaginary quadratic number fields. <i>Journal of Number Theory</i> , 2009, 129, 2289-2294.	0.4	0
36	NONABELIAN NORMAL CM-FIELDS OF DEGREE $2pq$ . <i>Journal of the Australian Mathematical Society</i> , 2009, 87, 129.	0.4	0

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37	On the divisibility of the class number of imaginary quadratic number fields. Proceedings of the American Mathematical Society, 2009, 137, 4025-4028.	0.8	16
38	Localization of the complex zeros of parametrized families of polynomials. Journal of Symbolic Computation, 2008, 43, 304-309.	0.8	2
39	On a problem of D. H. Lehmer. Proceedings of the American Mathematical Society, 2007, 135, 969-969.	0.8	8
40	Efficient computation of root numbers and class numbers of parametrized families of real abelian number fields. Mathematics of Computation, 2007, 76, 455-474.	2.1	5
41	Some explicit upper bounds for residues of zeta functions of number fields taking into account the behavior of the prime 2. Manuscripta Mathematica, 2007, 125, 43-67.	0.6	3
42	Simple proofs of the Siegel-Tatuzawa and Brauer-Siegel theorems. Colloquium Mathematicum, 2007, 108, 277-283.	0.3	4
43	The class-number one problem for some real cubic number fields with negative discriminants. Journal of Number Theory, 2006, 121, 30-39.	0.4	6
44	Lower bounds for relative class numbers of imaginary abelian number fields and CM-fields. Acta Arithmetica, 2006, 121, 199-220.	0.4	5
45	THE BRAUER-SIEGEL THEOREM. Journal of the London Mathematical Society, 2005, 72, 40-52.	1.0	16
46	On the use of explicit bounds on residues of Dedekind zeta functions taking into account the behavior of small primes. Journal De Theorie Des Nombres De Bordeaux, 2005, 17, 559-573.	0.1	2
47	The simplest quartic fields with ideal class groups of exponents less than or equal to 2. Journal of the Mathematical Society of Japan, 2004, 56, 717.	0.4	4
48	Explicit upper bounds for $\hat{A}(1, \hat{A})$ for primitive characters $\hat{A}$ . Quarterly Journal of Mathematics, 2004, 55, 57-68.	0.8	6
49	Explicit upper bounds for values at $s=1$ of Dirichlet L-series associated with primitive even characters. Journal of Number Theory, 2004, 104, 118-131.	0.4	6
50	Numerical Evaluation at Negative Integers of the Dedekind Zeta Functions of Totally Real Cubic Number Fields. Lecture Notes in Computer Science, 2004, , 318-326.	1.3	1
51	Exponents of the ideal class groups of CM number fields. Mathematische Zeitschrift, 2003, 243, 155-159.	0.9	4
52	Explicit Lower bounds for residues at $s=1$ of Dedekind zeta functions and relative class numbers of CM-fields. Transactions of the American Mathematical Society, 2003, 355, 3079-3098.	0.9	23
53	Majorations explicites de $ L(1, \chi) $ (quatrième partie). Comptes Rendus Mathematique, 2002, 334, 625-628.	0.3	10
54	Explicit upper bounds for $ L(1, \chi) $ for primitive even Dirichlet characters. Acta Arithmetica, 2002, 101, 1-18.	0.4	6

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55	Efficient Computation of Class Numbers of Real Abelian Number Fields. Lecture Notes in Computer Science, 2002, , 134-147.	1.3	3
56	The Class Number One Problem for Some Non-Normal Sextic CM-Fields. Developments in Mathematics, 2002, , 27-37.	0.4	2
57	Computation of $L(0, \chi)$ and of relative class numbers of CM-fields. Nagoya Mathematical Journal, 2001, 161, 171-191.	0.8	8
58	Explicit Upper Bounds for Residues of Dedekind Zeta Functions and Values of $L$ -Functions at $s=1$ , and Explicit Lower Bounds for Relative Class Numbers of CM-Fields. Canadian Journal of Mathematics, 2001, 53, 1194-1222.	0.6	29
59	Computation of class numbers of quadratic number fields. Mathematics of Computation, 2001, 71, 1735-1744.	2.1	8
60	Class number and class group problems for some non-normal totally real cubic number fields. Manuscripta Mathematica, 2001, 106, 411-427.	0.6	9
61	Majorations explicites de $ L(1, \chi) $ (troisième partie). Comptes Rendus Mathématique, 2001, 332, 95-98.	0.5	8
62	The exponent three class group problem for some real cyclic cubic number fields. Proceedings of the American Mathematical Society, 2001, 130, 353-361.	0.8	10
63	The mean value of $ L(k, \chi) ^2$ at positive rational integers $k \geq 1$ . Colloquium Mathematicum, 2001, 90, 69-76.	0.3	15
64	Explicit Bounds for Residues of Dedekind Zeta Functions, Values of $L$ -Functions at $s=1$ , and Relative Class Numbers. Journal of Number Theory, 2000, 85, 263-282.	0.4	38
65	Hasse Unit Indices of Dihedral Octic CM-Fields. Mathematische Nachrichten, 2000, 215, 107-113.	0.8	9
66	Fast Computation of Relative Class Numbers of CM-Fields. Lecture Notes in Computer Science, 2000, , 413-422.	1.3	1
67	Computation of relative class numbers of CM-fields by using Hecke $L$ -functions. Mathematics of Computation, 1999, 69, 371-394.	2.1	14
68	Sur le calcul numérique des constantes des équations fonctionnelles des fonctions $L$ associées aux caractères impairs. Comptes Rendus Mathématique, 1999, 329, 347-350.	0.5	9
69	The nonquadratic imaginary cyclic fields of 2-power degrees with class numbers equal to their genus class numbers. Proceedings of the American Mathematical Society, 1999, 127, 355-361.	0.8	4
70	On the mean value of $ L(1, \chi) ^2$ for odd primitive Dirichlet characters. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1999, 75, .	0.4	8
71	Construction of the real dihedral number fields of degree $2p$ . Applications. Acta Arithmetica, 1999, 89, 201-215.	0.4	7
72	The class number one problem for the dihedral and dicyclic CM-fields. Colloquium Mathematicum, 1999, 80, 259-265.	0.3	8

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73	The class number one problem for some non-abelian normal CM-fields of degree $2^4$ . Journal De Theorie Des Nombres De Bordeaux, 1999, 11, 387-406.	0.1	19
74	The Class Number One Problem for Some Non-Abelian Normal CM-Fields of 2-Power Degrees. Proceedings of the London Mathematical Society, 1998, 76, 523-548.	1.3	18
75	Computation of Relative Class Numbers of Imaginary Abelian Number Fields. Experimental Mathematics, 1998, 7, 293-303.	0.7	12
76	Computation of relative class numbers of imaginary cyclic fields of 2-power degrees. Lecture Notes in Computer Science, 1998, , 475-481.	1.3	0
77	Majorations explicites du rang du point 1 des fonctions zêta de certains corps de nombres. Journal of the Mathematical Society of Japan, 1998, 50, .	0.4	13
78	Upper Bounds on $ L(1, \chi) $ and Applications. Canadian Journal of Mathematics, 1998, 50, 794-815.	0.6	14
79	Class-group problems for cubic number fields. Japanese Journal of Mathematics, 1997, 23, 365-378.	2.1	4
80	Computation of relative class numbers of CM-fields. Mathematics of Computation, 1997, 66, 1185-1195.	2.1	9
81	Powerful Necessary Conditions for Class Number Problems. Mathematische Nachrichten, 1997, 183, 173-184.	0.8	3
82	CM-Fields with Cyclic Ideal Class Groups of 2-Power Orders. Journal of Number Theory, 1997, 67, 1-10.	0.4	15
83	The class number one problem for some non-abelian normal CM-fields. Transactions of the American Mathematical Society, 1997, 349, 3657-3678.	0.9	30
84	The class number one problem for the non-abelian normal CM-fields of degree 16. Acta Arithmetica, 1997, 82, 173-196.	0.4	12
85	Determination of all Quaternion Octic CM-Fields with Class Number 2. Journal of the London Mathematical Society, 1996, 54, 227-238.	1.0	14
86	A computational technique for determining relative class numbers of CM-fields. Lecture Notes in Computer Science, 1996, , 213-216.	1.3	0
87	The CM-fields with class number one which are Hilbert class fields of quadratic fields. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1996, 72, .	0.4	0
88	Class-number problems for cubic number fields. Nagoya Mathematical Journal, 1995, 138, 199-208.	0.8	14
89	Determination of All Nonquadratic Imaginary Cyclic Number Fields of 2-Power Degrees with Ideal Class Groups of Exponents $\equiv 2 \pmod{4}$ . Mathematics of Computation, 1995, 64, 323.	2.1	11
90	Calcul du nombre de classes des corps de nombres. Pacific Journal of Mathematics, 1995, 171, 455-467.	0.5	11

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91	Corrections $\tilde{A}$ : Quelques Formules Exactes Pour des Moyennes de Fonctions $\langle i \rangle_L / i$ de Dirichlet. Canadian Mathematical Bulletin, 1994, 37, 89-89.	0.5	2
92	Lower bounds for relative class numbers of CM-fields. Proceedings of the American Mathematical Society, 1994, 120, 425-425.	0.8	21
93	The Exponent 2-Class-Group Problem for Non-Galois Over $\mathbb{Q}$ Quartic Fields That Are Quadratic Extensions of Imaginary Quadratic Fields. Journal of Number Theory, 1994, 49, 133-141.	0.4	5
94	On the class number one problem for nonnormal quartic {CM}-fields. Tohoku Mathematical Journal, 1994, 46, .	0.2	12
95	Determination of all non-normal quartic CM-fields and of all non-abelian normal octic CM-fields with class number one. Acta Arithmetica, 1994, 67, 47-62.	0.4	30
96	Determination of all quaternion octic CM-fields with ideal class groups of exponents $2^2$ . Abridged version. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1994, 70, .	0.4	1
97	Majoration Et Minoration Du Nombre De Classes D'Id $\tilde{A}$ aux Des Corps R $\tilde{A}$ els Purs De Degr $\tilde{A}$ Premier. Bulletin of the London Mathematical Society, 1993, 25, 533-540.	0.8	5
98	Quelques Formules Exactes Pour des Moyennes de Fonctions $\langle i \rangle_L / i$ de Dirichlet. Canadian Mathematical Bulletin, 1993, 36, 190-196.	0.5	26
99	Minorations d $\hat{e}$ TMunit $\tilde{A}$ s fondamentales $\hat{e}$ ”applications. Nagoya Mathematical Journal, 1993, 130, 1-18.	0.8	4
100	L-Functions and Class Numbers of Imaginary Quadratic Fields and of Quadratic Extensions of an Imaginary Quadratic Field. Mathematics of Computation, 1992, 59, 213.	2.1	4
101	Class Numbers of Real Quadratic Fields, Continued Fractions, Reduced Ideals, Prime-Producing Quadratic Polynomials and Quadratic Residue Covers. Canadian Journal of Mathematics, 1992, 44, 824-842.	0.6	17
102	D $\tilde{A}$ termination des corps quartiques cycliques totalement imaginaires $\tilde{A}$ groupe des classes d'id $\tilde{A}$ aux d'exposant $\hat{a}\%2$ . Manuscripta Mathematica, 1992, 77, 385-404.	0.6	5
103	Minoration au point 1 des fonctions L et d $\tilde{A}$ termination des corps sextiques ab $\tilde{A}$ liens totalement imaginaires principaux. Acta Arithmetica, 1992, 62, 109-124.	0.4	19
104	Majoration au point 1 des fonctions L associ $\tilde{A}$ es aux caract $\tilde{A}$ res de Dirichlet primitifs, ou au caract $\tilde{A}$ re d'une extension quadratique d'un corps quadratique imaginaire principal.. Journal Fur Die Reine Und Angewandte Mathematik, 1991, 1991, 213-219.	0.9	6
105	Norme relative de l'unit $\tilde{A}$ fondamentale et 2-rang du groupe des classes d'id $\tilde{A}$ aux de certains corps biquadratiques. Acta Arithmetica, 1991, 58, 273-288.	0.4	9
106	Les extensions quadratiques du corps des rationnels, ou du corps de Gauss, ou du corps des racines cubiques de l'unit $\tilde{A}$ de calibres 1. Manuscripta Mathematica, 1990, 69, 387-410.	0.6	1
107	Prime Producing Quadratic Polynomials and Class-Numbers of Real Quadratic Fields. Canadian Journal of Mathematics, 1990, 42, 315-341.	0.6	12
108	Le Groupe des Classes Ambiges (Au Sens Strict). Progress in Mathematics, 1990, , 147-153.	0.3	0

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109	Le Groupe des Classes Ambiges (Au Sens Strict)&gt;. Progress in Mathematics, 1990, , 147-153.	0.3	0
110	Groupes des classes d'idéaux triviaux. Acta Arithmetica, 1989, 54, 61-74.	0.4	12
111	Continued fractions and real quadratic fields. Journal of Number Theory, 1988, 30, 167-176.	0.4	29
112	The class number one problem for the dihedral CM-fields. , 0, , .		3
113	Fundamental units for orders generated by a unit. Publications Mathématiques De Besançon, 0, , 41-68.	0.4	2
114	Fundamental units for orders of unit rank 1 and generated by a unit. Banach Center Publications, 0, 108, 173-189.	0.1	0