

Stéphane Louboutin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Explicit Bounds for Residues of Dedekind Zeta Functions, Values of L-Functions at $s=1$, and Relative Class Numbers. <i>Journal of Number Theory</i> , 2000, 85, 263-282.	0.4	38
2	The class number one problem for some non-abelian normal CM-fields. <i>Transactions of the American Mathematical Society</i> , 1997, 349, 3657-3678.	0.9	30
3	Determination of all non-normal quartic CM-fields and of all non-abelian normal octic CM-fields with class number one. <i>Acta Arithmetica</i> , 1994, 67, 47-62.	0.4	30
4	Continued fractions and real quadratic fields. <i>Journal of Number Theory</i> , 1988, 30, 167-176.	0.4	29
5	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. <i>Canadian Journal of Mathematics</i> , 2001, 53, 1194-1222.	0.6	29
6	Quelques Formules Exactes Pour des Moyennes de Fonctions L de Dirichlet. <i>Canadian Mathematical Bulletin</i> , 1993, 36, 190-196.	0.5	26
7	Explicit Lower bounds for residues at $s=1$ of Dedekind zeta functions and relative class numbers of CM-fields. <i>Transactions of the American Mathematical Society</i> , 2003, 355, 3079-3098.	0.9	23
8	Lower bounds for relative class numbers of CM-fields. <i>Proceedings of the American Mathematical Society</i> , 1994, 120, 425-425.	0.8	21
9	Minoration au point 1 des fonctions L et détermination des corps sextiques abéliens totalement imaginaires principaux. <i>Acta Arithmetica</i> , 1992, 62, 109-124.	0.4	19
10	The class number one problem for some non-abelian normal CM-fields of degree 24. <i>Journal De Theorie Des Nombres De Bordeaux</i> , 1999, 11, 387-406.	0.1	19
11	The Class Number One Problem for Some Non-Abelian Normal CM-Fields of 2-Power Degrees. <i>Proceedings of the London Mathematical Society</i> , 1998, 76, 523-548.	1.3	18
12	Class Numbers of Real Quadratic Fields, Continued Fractions, Reduced Ideals, Prime-Producing Quadratic Polynomials and Quadratic Residue Covers. <i>Canadian Journal of Mathematics</i> , 1992, 44, 824-842.	0.6	17
13	THE BRAUER-SIEGEL THEOREM. <i>Journal of the London Mathematical Society</i> , 2005, 72, 40-52.	1.0	16
14	On the divisibility of the class number of imaginary quadratic number fields. <i>Proceedings of the American Mathematical Society</i> , 2009, 137, 4025-4028.	0.8	16
15	CM-Fields with Cyclic Ideal Class Groups of 2-Power Orders. <i>Journal of Number Theory</i> , 1997, 67, 1-10.	0.4	15
16	The mean value of $ L(k, \chi) ^2$ at positive rational integers $k \geq 1$. <i>Colloquium Mathematicum</i> , 2001, 90, 69-76.	0.3	15
17	Class-number problems for cubic number fields. <i>Nagoya Mathematical Journal</i> , 1995, 138, 199-208.	0.8	14
18	Determination of all Quaternion Octic CM-Fields with Class Number 2. <i>Journal of the London Mathematical Society</i> , 1996, 54, 227-238.	1.0	14

#	ARTICLE	IF	CITATIONS
19	Computation of relative class numbers of CM-fields by using Hecke L -functions. <i>Mathematics of Computation</i> , 1999, 69, 371-394.	2.1	14
20	Upper Bounds on $ L(1, \chi) $ and Applications. <i>Canadian Journal of Mathematics</i> , 1998, 50, 794-815.	0.6	14
21	Majorations explicites du résidu au point 1 des fonctions zêta de certains corps de nombres. <i>Journal of the Mathematical Society of Japan</i> , 1998, 50, .	0.4	13
22	Computation of Relative Class Numbers of Imaginary Abelian Number Fields. <i>Experimental Mathematics</i> , 1998, 7, 293-303.	0.7	12
23	On the class number one problem for nonnormal quartic {CM}-fields. <i>Tohoku Mathematical Journal</i> , 1994, 46, .	0.2	12
24	Groupes des classes d'idéaux triviaux. <i>Acta Arithmetica</i> , 1989, 54, 61-74.	0.4	12
25	The class number one problem for the non-abelian normal CM-fields of degree 16. <i>Acta Arithmetica</i> , 1997, 82, 173-196.	0.4	12
26	Prime Producing Quadratic Polynomials and Class-Numbers of Real Quadratic Fields. <i>Canadian Journal of Mathematics</i> , 1990, 42, 315-341.	0.6	12
27	Determination of All Nonquadratic Imaginary Cyclic Number Fields of 2-Power Degrees with Ideal Class Groups of Exponents ≥ 2 . <i>Mathematics of Computation</i> , 1995, 64, 323.	2.1	11
28	Calcul du nombre de classes des corps de nombres. <i>Pacific Journal of Mathematics</i> , 1995, 171, 455-467.	0.5	11
29	Majorations explicites de $ L(1, \chi) $ (quatrième partie). <i>Comptes Rendus Mathématique</i> , 2002, 334, 625-628.	0.3	10
30	A twisted quadratic moment for Dirichlet L -functions. <i>Proceedings of the American Mathematical Society</i> , 2014, 142, 1539-1544.	0.8	10
31	The exponent three class group problem for some real cyclic cubic number fields. <i>Proceedings of the American Mathematical Society</i> , 2001, 130, 353-361.	0.8	10
32	Computation of relative class numbers of CM-fields. <i>Mathematics of Computation</i> , 1997, 66, 1185-1195.	2.1	9
33	Sur le calcul numérique des constantes des équations fonctionnelles des fonctions L associées aux caractères impairs. <i>Comptes Rendus Mathématique</i> , 1999, 329, 347-350.	0.5	9
34	Hasse Unit Indices of Dihedral Octic CM-Fields. <i>Mathematische Nachrichten</i> , 2000, 215, 107-113.	0.8	9
35	Class number and class group problems for some non-normal totally real cubic number fields. <i>Manuscripta Mathematica</i> , 2001, 106, 411-427.	0.6	9
36	Norme relative de l'unité fondamentale et 2-rang du groupe des classes d'idéaux de certains corps biquadratiques. <i>Acta Arithmetica</i> , 1991, 58, 273-288.	0.4	9

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37	Mean values of L-functions and relative class numbers of cyclotomic fields. <i>Publicationes Mathematicae</i> , 2011, 78, 647-658.	0.2	9
38	Computation of $L(0, \chi)$ and of relative class numbers of CM-fields. <i>Nagoya Mathematical Journal</i> , 2001, 161, 171-191.	0.8	8
39	Computation of class numbers of quadratic number fields. <i>Mathematics of Computation</i> , 2001, 71, 1735-1744.	2.1	8
40	Majorations explicites de $ L(1, \chi) $ (troisième partie). <i>Comptes Rendus Mathématique</i> , 2001, 332, 95-98.	0.5	8
41	On a problem of D. H. Lehmer. <i>Proceedings of the American Mathematical Society</i> , 2007, 135, 969-969.	0.8	8
42	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
43	On the mean value of $ L(1, \chi) ^2$ for odd primitive Dirichlet characters. <i>Proceedings of the Japan Academy Series A: Mathematical Sciences</i> , 1999, 75, .	0.4	8
44	The class number one problem for the dihedral and dicyclic CM-fields. <i>Colloquium Mathematicum</i> , 1999, 80, 259-265.	0.3	8
45	Construction of the real dihedral number fields of degree $2p$. Applications. <i>Acta Arithmetica</i> , 1999, 89, 201-215.	0.4	7
46	On the fundamental units of some cubic orders generated by units. <i>Acta Arithmetica</i> , 2014, 165, 283-299.	0.4	7
47	Non-Galois cubic number fields with exceptional units. <i>Publicationes Mathematicae</i> , 2017, 91, 153-170.	0.2	7
48	Majoration au point 1 des fonctions L associées aux caractères de Dirichlet primitifs, ou au caractère d'une extension quadratique d'un corps quadratique imaginaire principal.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1991, 1991, 213-219.	0.9	6
49	Explicit upper bounds for $L(1, \chi)$ for primitive characters χ . <i>Quarterly Journal of Mathematics</i> , 2004, 55, 57-68.	0.8	6
50	Explicit upper bounds for values at $s=1$ of Dirichlet L-series associated with primitive even characters. <i>Journal of Number Theory</i> , 2004, 104, 118-131.	0.4	6
51	The class-number one problem for some real cubic number fields with negative discriminants. <i>Journal of Number Theory</i> , 2006, 121, 30-39.	0.4	6
52	On some cubic or quartic algebraic units. <i>Journal of Number Theory</i> , 2010, 130, 956-960.	0.4	6
53	Explicit upper bounds for $ L(1, \chi) $ for primitive even Dirichlet characters. <i>Acta Arithmetica</i> , 2002, 101, 1-18.	0.4	6
54	TWISTED QUADRATIC MOMENTS FOR DIRICHLET L-FUNCTIONS. <i>Bulletin of the Korean Mathematical Society</i> , 2015, 52, 2095-2105.	0.3	6

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55	D-termination des corps quartiques cycliques totalement imaginaires à groupe des classes d'id-aux d'exposant $\neq 2$. Manuscripta Mathematica, 1992, 77, 385-404.	0.6	5
56	Majoration Et Minoration Du Nombre De Classes D'id-aux Des Corps Réels Purs De Degré Premier. Bulletin of the London Mathematical Society, 1993, 25, 533-540.	0.8	5
57	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
58	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
59	Real zeros of Dedekind zeta functions. International Journal of Number Theory, 2015, 11, 843-848.	0.5	5
60	Upper bounds for residues of Dedekind zeta functions and class numbers of cubic and quartic number fields. Mathematics of Computation, 2011, 80, 1813-1822.	2.1	5
61	Lower bounds for relative class numbers of imaginary abelian number fields and CM-fields. Acta Arithmetica, 2006, 121, 199-220.	0.4	5
62	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
63	Minorations des unités fondamentales applications. Nagoya Mathematical Journal, 1993, 130, 1-18.	0.8	4
64	Class-group problems for cubic number fields. Japanese Journal of Mathematics, 1997, 23, 365-378.	2.1	4
65	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
66	Exponents of the ideal class groups of CM number fields. Mathematische Zeitschrift, 2003, 243, 155-159.	0.9	4
67	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
68	On the fundamental units of a totally real cubic order generated by a unit. Proceedings of the American Mathematical Society, 2012, 140, 429-436.	0.8	4
69	Resultants of Chebyshev Polynomials: A Short Proof. Canadian Mathematical Bulletin, 2013, 56, 602-605.	0.5	4
70	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
71	Simple proofs of the Siegel-Tatuzawa and Brauer-Siegel theorems. Colloquium Mathematicum, 2007, 108, 277-283.	0.3	4
72	Powerful Necessary Conditions for Class Number Problems. Mathematische Nachrichten, 1997, 183, 173-184.	0.8	3

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73	The class number one problem for the dihedral CM-fields. , 0, , .		3
74	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
75	The class number one problem for some non-normal CM-fields of degree 2 p. Journal of Number Theory, 2012, 132, 1793-1806.	0.4	3
76	Determination of the orders generated by a cyclic cubic unit that are Galois invariant. Journal of Number Theory, 2015, 148, 33-39.	0.4	3
77	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
78	Efficient Computation of Class Numbers of Real Abelian Number Fields. Lecture Notes in Computer Science, 2002, , 134-147.	1.3	3
79	Corrections À: Quelques Formules Exactes Pour des Moyennes de Fonctions L de Dirichlet. Canadian Mathematical Bulletin, 1994, 37, 89-89.	0.5	2
80	Localization of the complex zeros of parametrized families of polynomials. Journal of Symbolic Computation, 2008, 43, 304-309.	0.8	2
81	On the Continued Fraction Expansions of \sqrt{p} and $\sqrt{2p}$ for Primes $p \equiv 3 \pmod{4}$. , 2020, , 175-178.		2
82	On positive real zeros of theta and L -functions associated with real, even and primitive characters. Publicationes Mathematicae, 2013, 83, 643-665.	0.2	2
83	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
84	The Class Number One Problem for Some Non-Normal Sextic CM-Fields. Developments in Mathematics, 2002, , 27-37.	0.4	2
85	Fundamental units for orders generated by a unit. Publications Mathématiques De Besançon, 0, , 41-68.	0.4	2
86	Les extensions quadratiques du corps des rationnels, ou du corps de Gauss, ou du corps des racines cubiques de l'unité $\mathbb{Q}(\zeta_3)$ de degrés 1. Manuscripta Mathematica, 1990, 69, 387-410.	0.6	1
87	Upper bounds on relative class numbers of cyclotomic fields. Mathematica Slovaca, 2014, 64, 21-26.	0.6	1
88	Discriminants of cyclic cubic orders. Journal of Number Theory, 2016, 168, 64-71.	0.4	1
89	Discriminants of n -orders. International Journal of Number Theory, 2016, 12, 1899-1905.	0.5	1
90	Fundamental units for a family of totally real cubic orders and the diophantine equation $u(u+a)(u+b) = T^2$. arXiv:1905.00000 [math.NT]	0.5	1

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91	Representation of the elements of the finite field \mathbb{F}_p by fractions. Periodica Mathematica Hungarica, 2019, 79, 218-220.	0.9	1
92	Non-Galois cubic number fields with exceptional units. Part II. Journal of Number Theory, 2020, 206, 62-80.	0.4	1
93	Fast Computation of Relative Class Numbers of CM-Fields. Lecture Notes in Computer Science, 2000, , 413-422.	1.3	1
94	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
95	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
96	Computation of relative class numbers of imaginary cyclic fields of 2-power degrees. Lecture Notes in Computer Science, 1998, , 475-481.	1.3	0
97	On the Ono invariants of imaginary quadratic number fields. Journal of Number Theory, 2009, 129, 2289-2294.	0.4	0
98	NONABELIAN NORMAL CM-FIELDS OF DEGREE 2 pq. Journal of the Australian Mathematical Society, 2009, 87, 129.	0.4	0
99	Upper bounds on $L(1, \chi)$ taking into account ramified prime ideals. Journal of Number Theory, 2017, 177, 60-72.	0.4	0
100	Simple zeros of Dedekind zeta functions. Functiones Et Approximatio, Commentarii Mathematici, 2017, 56, .	0.3	0
101	On the Discriminants of the Powers of an Algebraic Integer. Canadian Mathematical Bulletin, 2020, 63, 481-483.	0.5	0
102	Upper bounds on residues of Dedekind zeta functions of non-normal totally real cubic fields. Acta Arithmetica, 2021, 198, 233-256.	0.4	0
103	On Ennola's Conjecture on Non-Galois Cubic Number Fields with Exceptional Units. Moscow Mathematical Journal, 2021, 21, 789-805.	0.4	0
104	Some quartic number fields containing an imaginary quadratic subfield. Colloquium Mathematicum, 2011, 122, 139-148.	0.3	0
105	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 χ . Colloquium Mathematicum, 2013, 130, 79-90.	0.3	0
106	Le Groupe des Classes Ambiges (Au Sens Strict). Progress in Mathematics, 1990, , 147-153.	0.3	0
107	Le Groupe des Classes Ambiges (Au Sens Strict)>. Progress in Mathematics, 1990, , 147-153.	0.3	0
108	A computational technique for determining relative class numbers of CM-fields. Lecture Notes in Computer Science, 1996, , 213-216.	1.3	0

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109	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
110	Fundamental units for orders of unit rank 1 and generated by a unit. Banach Center Publications, 0, 108, 173-189.	0.1	0
111	Upper bounds on $L(1, \chi)$ taking into account a finite set of prime ideals. Acta Arithmetica, 2018, 182, 249-269.	0.4	0
112	Twisted quadratic moments for Dirichlet L -functions at $s=2$. Publicationes Mathematicae, 2019, 95, 393-400.	0.2	0
113	When is the order generated by a cubic, quartic or quintic algebraic unit Galois invariant: three conjectures. , 2020, 70, 905-919.		0
114	On the continued fraction expansions of $\sqrt{4n^2+1}$ and $\sqrt{4n^2+9}$ and $\sqrt{4n^2+25}$. Comptes Rendus Mathématique, 2021, 359, 1201-1205.	0.3	0