

# David Harbater

## List of Publications by Year in descending order

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44  
papers

639  
citations

567281

15  
h-index

610901

24  
g-index

45  
all docs

45  
docs citations

45  
times ranked

90  
citing authors

#	ARTICLE	IF	CITATIONS
1	LARGE FIELDS IN DIFFERENTIAL GALOIS THEORY. Journal of the Institute of Mathematics of Jussieu, 2021, 20, 1931-1946.	0.7	7
2	Free differential Galois groups. Transactions of the American Mathematical Society, 2021, 374, 4293-4308.	0.9	4
3	The differential Galois group of the rational function field. Advances in Mathematics, 2021, 381, 107605.	1.1	2
4	Local-global principles for curves over semi-global fields. Bulletin of the London Mathematical Society, 2021, 53, 177-193.	0.8	1
5	Local-global Galois theory of arithmetic function fields. Israel Journal of Mathematics, 2019, 232, 849-882.	0.8	2
6	Abhyankar's conjectures in Galois theory: Current status and future directions. Bulletin of the American Mathematical Society, 2018, 55, 239-287.	1.5	13
7	Differential embedding problems over Laurent series fields. Journal of Algebra, 2018, 513, 99-112.	0.7	5
8	Global Oort groups. Journal of Algebra, 2017, 473, 374-396.	0.7	2
9	Differential Galois groups over Laurent series fields. Proceedings of the London Mathematical Society, 2016, 112, 455-476.	1.3	6
10	Refinements to Patching and Applications to Field Invariants. International Mathematics Research Notices, 2015, 2015, 10399-10450.	1.0	11
11	Local-global principles for torsors over arithmetic curves. American Journal of Mathematics, 2015, 137, 1559-1612.	1.1	24
12	Local-global principles for Galois cohomology. Commentarii Mathematici Helvetici, 2014, 89, 215-253.	0.7	19
13	Weierstrass preparation and algebraic invariants. Mathematische Annalen, 2013, 356, 1405-1424.	1.4	8
14	Patching subfields of division algebras. Transactions of the American Mathematical Society, 2011, 363, 3335-3335.	0.9	12
15	The local lifting problem for actions of finite groups on curves. Annales Scientifiques De L'Ecole Normale Supérieure, 2011, 44, 537-605.	0.8	10
16	Permanence criteria for semi-free profinite groups. Mathematische Annalen, 2010, 348, 539-563.	1.4	9
17	Patching over fields. Israel Journal of Mathematics, 2010, 176, 61-107.	0.8	33
18	On function fields with free absolute Galois groups. Journal Fur Die Reine Und Angewandte Mathematik, 2009, 2009, .	0.9	5

#	ARTICLE	IF	CITATIONS
19	Applications of patching to quadratic forms and central simple algebras. <i>Inventiones Mathematicae</i> , 2009, 178, 231-263.	2.5	64
20	Arithmetic and Differential Galois Groups. <i>Oberwolfach Reports</i> , 2008, 4, 1443-1520.	0.0	3
21	Correction and addendum to "embedding problems with local conditions". <i>Israel Journal of Mathematics</i> , 2007, 162, 373-379.	0.8	3
22	Local Galois theory in dimension two. <i>Advances in Mathematics</i> , 2005, 198, 623-653.	1.1	30
23	Abhyankar's Local Conjecture on Fundamental Groups. , 2004, , 473-485.		0
24	Abhyankar's Conjecture and embedding problems. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2003, 2003, 1-24.	0.9	7
25	Embedding problems with local conditions. <i>Israel Journal of Mathematics</i> , 2000, 118, 317-355.	0.8	11
26	Patching and Thickening Problems. <i>Journal of Algebra</i> , 1999, 212, 272-304.	0.7	28
27	Fundamental Groups of Curves in Characteristic $p$ . , 1995, , 656-666.		3
28	Abhyankar's conjecture on Galois groups over curves. <i>Inventiones Mathematicae</i> , 1994, 117, 1-25.	2.5	77
29	Formal Patching and Adding Branch Points. <i>American Journal of Mathematics</i> , 1993, 115, 487.	1.1	26
30	Potential theory over local and global fields, I. <i>Journal of Algebra</i> , 1992, 148, 337-383.	0.7	1
31	Potential theory over local and global fields, II. <i>Journal of Algebra</i> , 1992, 148, 384-432.	0.7	2
32	Arithmetic discriminants and horizontal intersections. <i>Mathematische Annalen</i> , 1991, 291, 705-724.	1.4	2
33	On purity of inertia. <i>Proceedings of the American Mathematical Society</i> , 1991, 112, 311-311.	0.8	1
34	Global approximation in dimension two. <i>Journal of Algebra</i> , 1990, 129, 159-193.	0.7	1
35	Every curve is a Hurwitz space. <i>Duke Mathematical Journal</i> , 1989, 59, 737.	1.5	18
36	Galois Covers of an Arithmetic Surface. <i>American Journal of Mathematics</i> , 1988, 110, 849.	1.1	9

#	ARTICLE	IF	CITATIONS
37	Galois coverings of the arithmetic line. Lecture Notes in Mathematics, 1987, , 165-195.	0.2	32
38	Hurwitz families and arithmetic Galois groups. Duke Mathematical Journal, 1985, 52, 821.	1.5	36
39	Convergent Arithmetic Power Series. American Journal of Mathematics, 1984, 106, 801.	1.1	16
40	Mock covers and Galois extensions. Journal of Algebra, 1984, 91, 281-293.	0.7	22
41	Algebraic rings of arithmetic power series. Journal of Algebra, 1984, 91, 294-319.	0.7	5
42	Ordinary and supersingular covers in characteristic $p$ . Pacific Journal of Mathematics, 1984, 113, 349-363.	0.5	2
43	Moduli of $p$ -covers of curves. Communications in Algebra, 1980, 8, 1095-1122.	0.6	37
44	Deformation theory and the tame fundamental group. Transactions of the American Mathematical Society, 1980, 262, 399-415.	0.9	9