

Alexandru Buium

List of Publications by Year in descending order

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48
papers

431
citations

1040056

9
h-index

839539

18
g-index

50
all docs

50
docs citations

50
times ranked

33
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential characters of abelian varieties over p-adic fields. <i>Inventiones Mathematicae</i> , 1995, 122, 309-340.	2.5	64
2	Geometry of p-jets. <i>Duke Mathematical Journal</i> , 1996, 82, 349.	1.5	44
3	Geometry of Differential Polynomial Functions, I: Algebraic Groups. <i>American Journal of Mathematics</i> , 1993, 115, 1385.	1.1	23
4	Arithmetic Analogues of Derivations. <i>Journal of Algebra</i> , 1997, 198, 290-299.	0.7	20
5	Independence of points on elliptic curves arising from special points on modular and Shimura curves, II: local results. <i>Compositio Mathematica</i> , 2009, 145, 566-602.	0.8	19
6	Effective bound for the geometric Lang conjecture. <i>Duke Mathematical Journal</i> , 1993, 71, 475.	1.5	16
7	Title is missing!. <i>International Mathematics Research Notices</i> , 2002, 2002, 1457.	1.0	10
8	Integral points of abelian varieties over function fields of characteristic zero. <i>Mathematische Annalen</i> , 1993, 297, 303-307.	1.4	9
9	Arithmetic Laplacians. <i>Advances in Mathematics</i> , 2009, 220, 246-277.	1.1	9
10	Ritt schemes and torsion theory. <i>Pacific Journal of Mathematics</i> , 1982, 98, 281-293.	0.5	9
11	The abc theorem for abelian varieties. <i>International Mathematics Research Notices</i> , 1994, 1994, 219.	1.0	8
12	Differential Modular Forms on Shimura Curves, I. <i>Compositio Mathematica</i> , 2003, 139, 197-237.	0.8	8
13	Differential eigenforms. <i>Journal of Number Theory</i> , 2008, 128, 979-1010.	0.4	8
14	An approximation property for Teichmüller points. <i>Mathematical Research Letters</i> , 1996, 3, 453-457.	0.5	8
15	Geometry of Fermat adèles. <i>Transactions of the American Mathematical Society</i> , 2004, 357, 901-964.	0.9	7
16	Arithmetic partial differential equations, I. <i>Advances in Mathematics</i> , 2010, 225, 689-793.	1.1	7
17	Arithmetic differential equations on \mathbb{G}_m^n , II: arithmetic Lie-Cartan theory. <i>Selecta Mathematica, New Series</i> , 2016, 22, 447-528.	1.0	7
18	The ring of differential Fourier expansions. <i>Journal of Number Theory</i> , 2012, 132, 896-937.	0.4	6

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19	Arithmetic differential equations on GL_n , III Galois groups. Selecta Mathematica, New Series, 2016, 22, 529-552.	1.0	6
20	Arithmetic Euler top. Journal of Number Theory, 2017, 173, 37-63.	0.4	6
21	Geometry of Differential Polynomial Functions, II: Algebraic Curves. American Journal of Mathematics, 1994, 116, 785.	1.1	5
22	Differential modular forms on Shimura curves, II: Serre operators. Compositio Mathematica, 2004, 140, 1113-1134.	0.8	5
23	Hecke operators on differential modular forms mod p . Journal of Number Theory, 2012, 132, 966-997.	0.4	5
24	On a question of B. Mazur. Duke Mathematical Journal, 1994, 75, 639.	1.5	4
25	Differential subgroups of simple algebraic groups over p -adic fields. American Journal of Mathematics, 1998, 120, 1277-1287.	1.1	4
26	Differential orbit spaces of discrete dynamical systems. Journal Fur Die Reine Und Angewandte Mathematik, 2005, 2005, 201-230.	0.9	4
27	Differential forms on arithmetic jet spaces. Selecta Mathematica, New Series, 2011, 17, 301-335.	1.0	4
28	Arithmetic differential operators on Z_p . Journal of Number Theory, 2011, 131, 96-105.	0.4	4
29	Intersection multiplicities on abelian varieties. Mathematische Annalen, 1998, 310, 653-659.	1.4	3
30	Continuous \mathbb{F} -adic Functions and \mathbb{F} -Derivations. Journal of Number Theory, 2000, 84, 34-39.	0.4	3
31	Arithmetic partial differential equations, II. Advances in Mathematics, 2010, 225, 1308-1340.	1.1	3
32	Differential modular forms attached to newforms mod p . Journal of Number Theory, 2015, 155, 111-128.	0.4	3
33	Arithmetic differential equations on GL , I: Differential cocycles. Journal of Algebra, 2016, 454, 273-291.	0.7	3
34	Curvature on the integers, I. Journal of Number Theory, 2016, 167, 481-508.	0.4	3
35	The Euler top and canonical lifts. Journal of Number Theory, 2018, 190, 156-168.	0.4	3
36	Differential characters and characteristic polynomial of Frobenius.. Journal Fur Die Reine Und Angewandte Mathematik, 1997, 1997, 209-219.	0.9	2

#	ARTICLE	IF	CITATIONS
37	Homogeneous p -differential polynomials. <i>Journal of Algebra</i> , 2003, 269, 492-507.	0.7	2
38	Independence of points on elliptic curves arising from special points on modular and Shimura curves, I: Global results. <i>Duke Mathematical Journal</i> , 2009, 147, .	1.5	2
39	Curvature on the integers, II. <i>Journal of Number Theory</i> , 2016, 167, 509-545.	0.4	2
40	Solutions to arithmetic differential equations in algebraically closed fields. <i>Advances in Mathematics</i> , 2020, 375, 107342.	1.1	2
41	The first p -jet space of an elliptic curve: global functions and lifts of Frobenius. <i>Mathematical Research Letters</i> , 2014, 21, 677-689.	0.5	2
42	Class groups and differential function fields. <i>Journal of Algebra</i> , 1984, 89, 56-64.	0.7	1
43	Infinitesimal Mordell–Lang. <i>Journal of Number Theory</i> , 2001, 90, 185-206.	0.4	1
44	Differential calculus with integers. , 0, , 139-187.		1
45	Differential characters on curves. , 2012, , 111-123.		1
46	Splitting differential algebraic groups. <i>Journal of Algebra</i> , 1990, 130, 97-105.	0.7	0
47	Arithmetic Levi–Civita connection. <i>Selecta Mathematica, New Series</i> , 2019, 25, 1.	1.0	0
48	Arithmetic Analogues of Hamiltonian Systems. , 2020, , 13-40.		0