Alexandru Buium

List of Publications by Year
in descending order

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	Solutions to arithmetic differential equations in algebraically closed fields. Advances in Mathematics, 2020, 375, 107342.	1.1	2
2	Arithmetic Analogues of Hamiltonian Systems. , 2020, , 13-40.		0
3	Arithmetic Leviâ€"CivitÃ connection. Selecta Mathematica, New Series, 2019, 25, 1.	1.0	0
4	The Euler top and canonical lifts. Journal of Number Theory, 2018, 190, 156-168.	0.4	3
5	Arithmetic Euler top. Journal of Number Theory, 2017, 173, 37-63.	0.4	6
6	Curvature on the integers, II. Journal of Number Theory, 2016, 167, 509-545.	0.4	2
7	Arithmetic differential equations on $$GL_n$$ G L n , II: arithmetic Lieâ€"Cartan theory. Selecta Mathematica, New Series, 2016, 22, 447-528.	1.0	7
8	Arithmetic differential equations on GL, I: Differential cocycles. Journal of Algebra, 2016, 454, 273-291.	0.7	3
9	Curvature on the integers, I. Journal of Number Theory, 2016, 167, 481-508.	0.4	3
10	Arithmetic differential equations on $$GL_n$$ G L n , III Galois groups. Selecta Mathematica, New Series, 2016, 22, 529-552.	1.0	6
11	Differential modular forms attached to newforms mod p. Journal of Number Theory, 2015, 155, 111-128.	0.4	3
12	The first p-jet space of an elliptic curve: global functions and lifts of Frobenius. Mathematical Research Letters, 2014, 21, 677-689.	0.5	2
13	Hecke operators on differential modular forms mod p. Journal of Number Theory, 2012, 132, 966-997.	0.4	5
14	The ring of differential Fourier expansions. Journal of Number Theory, 2012, 132, 896-937.	0.4	6
15	Differential characters on curves. , 2012, , 111-123.		1
16	Differential forms on arithmetic jet spaces. Selecta Mathematica, New Series, 2011, 17, 301-335.	1.0	4
17	Arithmetic differential operators on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mi>p</mml:mi></mml:msub></mml:math>. Journal of Number Theory, 2011, 131, 96-105.	0.4	4
18	Arithmetic partial differential equations, I. Advances in Mathematics, 2010, 225, 689-793.	1.1	7

#	Article	IF	Citations
19	Arithmetic partial differential equations, II. Advances in Mathematics, 2010, 225, 1308-1340.	1.1	3
20	Arithmetic Laplacians. Advances in Mathematics, 2009, 220, 246-277.	1.1	9
21	Independence of points on elliptic curves arising from special points on modular and Shimura curves, II: local results. Compositio Mathematica, 2009, 145, 566-602.	0.8	19
22	Independence of points on elliptic curves arising from special points on modular and Shimura curves, I: Global results. Duke Mathematical Journal, 2009, 147, .	1.5	2
23	Differential eigenforms. Journal of Number Theory, 2008, 128, 979-1010.	0.4	8
24	Differential orbit spaces of discrete dynamical systems. Journal Fur Die Reine Und Angewandte Mathematik, 2005, 2005, 201-230.	0.9	4
25	Geometry of Fermat adeles. Transactions of the American Mathematical Society, 2004, 357, 901-964.	0.9	7
26	Differential modular forms on Shimura curves, II: Serre operators. Compositio Mathematica, 2004, 140, 1113-1134.	0.8	5
27	Differential Modular Forms on Shimura Curves, I. Compositio Mathematica, 2003, 139, 197-237.	0.8	8
28	Homogeneous p-differential polynomials. Journal of Algebra, 2003, 269, 492-507.	0.7	2
29	Title is missing!. International Mathematics Research Notices, 2002, 2002, 1457.	1.0	10
30	Infinitesimal Mordellâ€"Lang. Journal of Number Theory, 2001, 90, 185-206.	0.4	1
31	Continuous Ï€-adic Functions and Ï€-Derivations. Journal of Number Theory, 2000, 84, 34-39.	0.4	3
32	Intersection multiplicities on abelian varieties. Mathematische Annalen, 1998, 310, 653-659.	1.4	3
33	Differential subgroups of simple algebraic groups over p -adic fields. American Journal of Mathematics, 1998, 120, 1277-1287.	1.1	4
34	Differential characters and characteristic polynomial of Frobenius.. Journal Fur Die Reine Und Angewandte Mathematik, 1997, 1997, 209-219.	0.9	2
35	Arithmetic Analogues of Derivations. Journal of Algebra, 1997, 198, 290-299.	0.7	20
36	Geometry of p-jets. Duke Mathematical Journal, 1996, 82, 349.	1.5	44

#	Article	IF	Citations
37	An approximation property for Teichmüller points. Mathematical Research Letters, 1996, 3, 453-457.	0.5	8
38	Differential characters of abelian varieties overp-adic fields. Inventiones Mathematicae, 1995, 122, 309-340.	2.5	64
39	The a b c theorem for abelian varieties. International Mathematics Research Notices, 1994, 1994, 219.	1.0	8
40	Geometry of Differential Polynomial Functions, II: Algebraic Curves. American Journal of Mathematics, 1994, 116, 785.	1.1	5
41	On a question of B. Mazur. Duke Mathematical Journal, 1994, 75, 639.	1.5	4
42	Integral points of abelian varieties over function fields of characteristic zero. Mathematische Annalen, 1993, 297, 303-307.	1.4	9
43	Geometry of Differential Polynomial Functions, I: Algebraic Groups. American Journal of Mathematics, 1993, 115, 1385.	1.1	23
44	Effective bound for the geometric Lang conjecture. Duke Mathematical Journal, 1993, 71, 475.	1.5	16
45	Splitting differential algebraic groups. Journal of Algebra, 1990, 130, 97-105.	0.7	0
46	Class groups and differential function fields. Journal of Algebra, 1984, 89, 56-64.	0.7	1
47	Ritt schemes and torsion theory. Pacific Journal of Mathematics, 1982, 98, 281-293.	0.5	9
48	Differential calculus with integers. , 0, , 139-187.		1