

Bettina Eick

List of Publications by Year in descending order

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papers

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840776

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58
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times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	Handbook of Computational Group Theory. , 0, , .		202
2	A MILLENNIUM PROJECT: CONSTRUCTING SMALL GROUPS. International Journal of Algebra and Computation, 2002, 12, 623-644.	0.5	124
3	CONSTRUCTING AUTOMORPHISM GROUPS OF p -GROUPS. Communications in Algebra, 2002, 30, 2271-2295.	0.6	37
4	Computing the Schur multiplier and the nonabelian tensor square of a polycyclic group. Journal of Algebra, 2008, 320, 927-944.	0.7	31
5	On the classification of prime-power groups by coclass. Bulletin of the London Mathematical Society, 2008, 40, 274-288.	0.8	30
6	Enumerating $\langle i \rangle p \langle /i \rangle$ -Groups. Journal of the Australian Mathematical Society Series A Pure Mathematics and Statistics, 1999, 67, 191-205.	0.3	25
7	The modular isomorphism problem for the groups of order 512. , 2011, , 375-383.		24
8	The groups of order at most 2000. Electronic Research Announcements in Mathematical Sciences, 2001, 7, 1-4.	0.7	23
9	Computing automorphism groups and testing isomorphisms for modular group algebras. Journal of Algebra, 2008, 320, 3895-3910.	0.7	17
10	Automorphism groups of 2-groups. Journal of Algebra, 2006, 300, 91-101.	0.7	14
11	Schur multipliers of finite p -groups with fixed coclass. Israel Journal of Mathematics, 2008, 166, 157-166.	0.8	13
12	Schur multipliers and the Lazard correspondence. Archiv Der Mathematik, 2012, 99, 217-226.	0.5	13
13	On the orbit-stabilizer problem for integral matrix actions of polycyclic groups. Mathematics of Computation, 2003, 72, 1511-1530.	2.1	12
14	Computing polycyclic presentations for polycyclic rational matrix groups. Journal of Symbolic Computation, 2005, 40, 1269-1284.	0.8	11
15	Some new simple Lie algebras in characteristic 2. Journal of Symbolic Computation, 2010, 45, 943-951.	0.8	11
16	ON THE CLASSIFICATION OF GROUPS OF PRIME-POWER ORDER BY COCLASS: THE 3-GROUPS OF COCLASS 2. International Journal of Algebra and Computation, 2013, 23, 1243-1288.	0.5	11
17	DETERMINATION OF THE UNISERIAL SPACE GROUPS WITH A GIVEN COCLASS. Journal of the London Mathematical Society, 2005, 71, 622-642.	1.0	9
18	THE GROUPS OF ORDER $qn\hat{A} \cdot p$. Communications in Algebra, 2001, 29, 1759-1772.	0.6	8

#	ARTICLE	IF	CITATIONS
19	Computational Aspects of Group Extensions and Their Applications in Topology. <i>Experimental Mathematics</i> , 2002, 11, 183-200.	0.7	7
20	Computing Subgroups by Exhibition in Finite Solvable Groups. <i>Journal of Symbolic Computation</i> , 2002, 33, 129-143.	0.8	7
21	Nilpotent associative algebras and coclass theory. <i>Journal of Algebra</i> , 2015, 434, 249-260.	0.7	7
22	Orbit-stabilizer Problems and Computing Normalizers for Polycyclic Groups. <i>Journal of Symbolic Computation</i> , 2002, 34, 1-19.	0.8	6
23	Algorithms for crystallographic groups. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 316-343.	2.0	6
24	On p -groups forming Brauer pairs. <i>Journal of Algebra</i> , 2006, 304, 286-303.	0.7	6
25	Schur multipliers of infinite pro- p -groups with finite coclass. <i>Israel Journal of Mathematics</i> , 2008, 166, 147-156.	0.8	6
26	COMPUTATION OF LOW-DIMENSIONAL (CO)HOMOLOGY GROUPS FOR INFINITE SEQUENCES OF p -GROUPS WITH FIXED COCLASS. <i>International Journal of Algebra and Computation</i> , 2011, 21, 635-649.	0.5	6
27	The Quillen categories of p -groups and coclass theory. <i>Israel Journal of Mathematics</i> , 2015, 206, 183-212.	0.8	6
28	Finite $\langle i \rangle_p \langle i \rangle$ -groups of maximal class with $\hat{\alpha}^{\text{large}}$ automorphism groups. <i>Journal of Group Theory</i> , 2017, 20, 227-256.	0.2	6
29	Special polycyclic generating sequences for finite soluble groups. <i>Journal of Symbolic Computation</i> , 2004, 38, 1445-1460.	0.8	5
30	Computing the automorphism group of a solvable Lie algebra. <i>Linear Algebra and Its Applications</i> , 2004, 382, 195-209.	0.9	5
31	Computing p -groups with trivial Schur multiplier. <i>Journal of Algebra</i> , 2009, 322, 741-751.	0.7	5
32	COMPUTING NILPOTENT QUOTIENTS OF ASSOCIATIVE ALGEBRAS AND ALGEBRAS SATISFYING A POLYNOMIAL IDENTITY. <i>International Journal of Algebra and Computation</i> , 2011, 21, 1339-1355.	0.5	5
33	The construction of finite solvable groups revisited. <i>Journal of Algebra</i> , 2014, 408, 166-182.	0.7	5
34	On the Fitting Subgroup of a Polycyclic-by-Finite Group and Its Applications. <i>Journal of Algebra</i> , 2001, 242, 176-187.	0.7	4
35	Coclass theory for nilpotent semigroups via their associated algebras. <i>Journal of Algebra</i> , 2013, 373, 491-501.	0.7	4
36	Coclass Theory for Finite Nilpotent Associative Algebras: Algorithms and a Periodicity Conjecture. <i>Experimental Mathematics</i> , 2017, 26, 267-274.	0.7	4

#	ARTICLE	IF	CITATIONS
37	The conjugacy problem in $GL(n, \mathbb{Z})$. Journal of the London Mathematical Society, 2019, 100, 731-756.	1.0	4
38	On Efficient Presentations for Infinite Sequences of 2-Groups with Fixed Coclass. Algebra Colloquium, 2013, 20, 561-572.	0.2	2
39	Metabelian p -groups and coclass theory. Journal of Algebra, 2015, 421, 102-118.	0.7	2
40	The automorphism group of a finitely generated virtually abelian group. Groups, Complexity, Cryptology, 2016, 8, .	0.3	2
41	COCHAIN SEQUENCES AND THE QUILLEN CATEGORY OF A COCLASS FAMILY. Journal of the Australian Mathematical Society, 2017, 102, 185-204.	0.4	2
42	The isomorphism problem for torsion free nilpotent groups of Hirsch length at most 5. Groups, Complexity, Cryptology, 2017, 9, .	0.3	2
43	Polynomials describing the multiplication in finitely generated torsion-free nilpotent groups. Journal of Symbolic Computation, 2019, 92, 203-210.	0.8	2
44	Groups whose orders factorise into at most four primes. Journal of Symbolic Computation, 2022, 108, 23-40.	0.8	2
45	WHEN IS THE AUTOMORPHISM GROUP OF A VIRTUALLY POLYCYCLIC GROUP VIRTUALLY POLYCYCLIC?. Glasgow Mathematical Journal, 2003, 45, 527-533.	0.3	1
46	Group extensions with special properties. Groups, Complexity, Cryptology, 2015, 7, 1-10.	0.3	1
47	The enumeration of groups of order $p^n q$ for $n \leq 5$. Journal of Algebra, 2018, 507, 571-591.	0.7	1
48	Enumeration of nilpotent associative algebras of class 2 over arbitrary finite fields. Journal of Algebra, 2018, 503, 573-589.	0.7	1
49	Counting p -groups and Lie algebras using PORC formulae. Journal of Algebra, 2020, 545, 198-212.	0.7	1
50	Computing the Schur multipliers of the Lie p -rings in the family defined by a symbolic Lie p -ring presentation. Journal of Symbolic Computation, 2021, 106, 68-77.	0.8	1
51	Galois trees in the graph of p -groups of maximal class. Journal of Algebra, 2022, 604, 429-450.	0.7	1
52	Constructing CF Groups by Coclass. Experimental Mathematics, 2009, 18, 205-211.	0.7	0
53	Computing Hall subgroups of finite groups. LMS Journal of Computation and Mathematics, 0, 15, 205-218.	0.9	0
54	Classifying Nilpotent Associative Algebras: Small Coclass and Finite Fields. , 2017, , 213-229.		0

#	ARTICLE	IF	CITATIONS
55	On the Frattini subgroup of a polycyclic group. Journal of Algebra, 2021, 591, 523-523.	0.7	0
56	The GAP Package LiePRing. Lecture Notes in Computer Science, 2020, , 131-140.	1.3	0