

# Gerhard Roehrle

## List of Publications by Year in descending order

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55  
papers

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citations

1040056

9  
h-index

996975

15  
g-index

55  
all docs

55  
docs citations

55  
times ranked

69  
citing authors

#	ARTICLE	IF	CITATIONS
1	A geometric approach to complete reducibility. <i>Inventiones Mathematicae</i> , 2005, 161, 177-218.	2.5	64
2	Complete reducibility and separability. <i>Transactions of the American Mathematical Society</i> , 2010, 362, 4283-4311.	0.9	30
3	Closed orbits and uniform $\mathbb{S}^1$ -instability in geometric invariant theory. <i>Transactions of the American Mathematical Society</i> , 2012, 365, 3643-3673.	0.9	26
4	Cocharacter-closure and the rational Hilbert–Mumford Theorem. <i>Mathematische Zeitschrift</i> , 2017, 287, 39-72.	0.9	13
5	ON THE COADJOINT ORBITS OF MAXIMAL UNIPOTENT SUBGROUPS OF REDUCTIVE GROUPS. <i>Transformation Groups</i> , 2016, 21, 399-426.	0.7	12
6	Complete reducibility and conjugacy classes of tuples in algebraic groups and Lie algebras. <i>Mathematische Zeitschrift</i> , 2011, 269, 809-832.	0.9	10
7	Supersolvable reflection arrangements. <i>Proceedings of the American Mathematical Society</i> , 2014, 142, 3787-3799.	0.8	10
8	Calculating conjugacy classes in Sylow $p$ -subgroups of finite Chevalley groups of rank six and seven. <i>LMS Journal of Computation and Mathematics</i> , 2014, 17, 109-122.	0.9	10
9	On 1-dimensional representations of finite $W$ -algebras associated to simple Lie algebras of exceptional type. <i>LMS Journal of Computation and Mathematics</i> , 2010, 13, 357-369.	0.9	9
10	Arrangements of ideal type. <i>Journal of Algebra</i> , 2017, 484, 126-167.	0.7	9
11	On inductively free restrictions of reflection arrangements. <i>Journal of Algebra</i> , 2014, 418, 197-212.	0.7	8
12	The Steinberg variety and representations of reductive groups. <i>Journal of Algebra</i> , 2009, 321, 3158-3196.	0.7	7
13	On Tits' Centre Conjecture for fixed point subcomplexes. <i>Comptes Rendus Mathematique</i> , 2009, 347, 353-356.	0.3	7
14	The restriction of minuscule representations to parabolic subgroups. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2003, 135, 59-79.	0.4	6
15	Special involutions and bulky parabolic subgroups in finite Coxeter groups. <i>Journal of the Australian Mathematical Society</i> , 2005, 79, 141-147.	0.4	6
16	An inductive approach to Coxeter arrangements and Solomon's descent algebra. <i>Journal of Algebraic Combinatorics</i> , 2012, 35, 215-235.	0.8	6
17	On Cocharacters Associated to Nilpotent Elements of Reductive Groups. <i>Nagoya Mathematical Journal</i> , 2008, 190, 105-128.	0.8	5
18	$G$ -complete reducibility and semisimple modules. <i>Bulletin of the London Mathematical Society</i> , 2011, 43, 1069-1078.	0.8	5

#	ARTICLE	IF	CITATIONS
19	Restrictions of aspherical arrangements. <i>Topology and Its Applications</i> , 2018, 249, 67-72.	0.4	5
20	The orbit structure of Dynkin curves. <i>Mathematische Zeitschrift</i> , 2007, 257, 439-451.	0.9	4
21	On conjugacy of unipotent elements in finite groups of Lie type. <i>Journal of Group Theory</i> , 2009, 12, .	0.2	4
22	Computations for Coxeter arrangements and Solomon's descent algebra: Groups of rank three and four. <i>Journal of Symbolic Computation</i> , 2013, 50, 139-158.	0.8	4
23	$\mathbb{C}G$ -complete reducibility in non-connected groups. <i>Proceedings of the American Mathematical Society</i> , 2014, 143, 1085-1100.	0.8	4
24	Supersolvable restrictions of reflection arrangements. <i>Journal of Combinatorial Theory - Series A</i> , 2014, 127, 336-352.	0.8	4
25	Spherical subgroups in simple algebraic groups. <i>Compositio Mathematica</i> , 2015, 151, 1288-1308.	0.8	4
26	On Commuting Varieties of Nilradicals of Borel Subalgebras of Reductive Lie Algebras. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2015, 58, 169-181.	0.3	4
27	On a question of Külshammer for representations of finite groups in reductive groups. <i>Israel Journal of Mathematics</i> , 2016, 214, 463-470.	0.8	4
28	Addition of Deletion Theorems for factorizations of Orlik's Solomon algebras and nice arrangements. <i>European Journal of Combinatorics</i> , 2016, 55, 20-40.	0.8	4
29	Arrangements of ideal type are inductively free. <i>International Journal of Algebra and Computation</i> , 2019, 29, 761-773.	0.5	4
30	Parabolic conjugacy in general linear groups. <i>Journal of Algebraic Combinatorics</i> , 2008, 27, 99-111.	0.8	3
31	The strong Centre Conjecture: An invariant theory approach. <i>Journal of Algebra</i> , 2012, 372, 505-530.	0.7	3
32	Invariants of reflection groups, arrangements, and normality of decomposition classes in Lie algebras. <i>Compositio Mathematica</i> , 2012, 148, 921-930.	0.8	3
33	Computations for Coxeter arrangements and Solomon's descent algebra II: Groups of rank five and six. <i>Journal of Algebra</i> , 2013, 377, 320-332.	0.7	3
34	On the irreducibility of symmetrizations of cross-characteristic representations of finite classical groups. <i>Journal of Pure and Applied Algebra</i> , 2013, 217, 1427-1446.	0.6	3
35	Semisimplification for subgroups of reductive algebraic groups. <i>Forum of Mathematics, Sigma</i> , 2020, 8, .	0.7	3
36	Computations for Coxeter arrangements and Solomon's descent algebra III: Groups of rank seven and eight. <i>Journal of Algebra</i> , 2015, 423, 1213-1232.	0.7	2

#	ARTICLE	IF	CITATIONS
37	ON RELATIVE COMPLETE REDUCIBILITY. Quarterly Journal of Mathematics, 2020, 71, 321-334.	0.8	2
38	Nice Reflection Arrangements. Electronic Journal of Combinatorics, 2016, 23, .	0.4	2
39	Nice Restrictions of Reflection Arrangements. Electronic Journal of Combinatorics, 2017, 24, .	0.4	2
40	Orbits of parabolic subgroups on metabelian ideals. Bulletin Des Sciences Mathematiques, 2009, 133, 82-91.	1.0	1
41	Complete reducibility and Steinberg endomorphisms. Comptes Rendus Mathematique, 2011, 349, 243-246.	0.3	1
42	Ziegler's Multireflection Arrangements Are Free. Experimental Mathematics, 2014, 23, 448-451.	0.7	1
43	Inductively Free Multiderivations of Braid Arrangements. Annals of Combinatorics, 2016, 20, 719-735.	0.6	1
44	The topology of arrangements of ideal type. Algebraic and Geometric Topology, 2019, 19, 1341-1358.	0.4	1
45	Freeness of multi-reflection arrangements via primitive vector fields. Advances in Mathematics, 2019, 350, 63-96.	1.1	1
46	Counting chambers in restricted Coxeter arrangements. Archiv Der Mathematik, 2019, 112, 347-359.	0.5	1
47	RELATIVE COMPLETE REDUCIBILITY AND NORMALIZED SUBGROUPS. Forum of Mathematics, Sigma, 2020, 8, .	0.7	1
48	Overgroups of regular unipotent elements in reductive groups. Forum of Mathematics, Sigma, 2022, 10, .	0.7	1
49	ALPERIN'S CONJECTURE FOR ALGEBRAIC GROUPS. Quarterly Journal of Mathematics, 2007, 59, 375-378.	0.8	0
50	EQUIVARIANT K-THEORY OF GENERALIZED STEINBERG VARIETIES. Transformation Groups, 2014, 19, 27-56.	0.7	0
51	Inductive freeness of Ziegler's canonical multiderivations for reflection arrangements. Journal of Algebra, 2018, 512, 357-381.	0.7	0
52	On the invariants of the cohomology of complements of Coxeter arrangements. Journal of Algebra, 2020, 558, 336-349.	0.7	0
53	The Modality of a Borel Subgroup in a Simple Algebraic Group of Type E8. Experimental Mathematics, 2020, 29, 326-327.	0.7	0
54	On the $\mu$ -problem for restrictions of complex reflection arrangements. Compositio Mathematica, 2020, 156, 526-532.	0.8	0

#	ARTICLE	IF	CITATIONS
55	Complete reducibility: variations on a theme of Serre. Manuscripta Mathematica, 0, , 1.	0.6	0