JÃ¼rgen Herzog

List of Publications by Year
in descending order

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111 papers	3,286 citations	159585 30 h-index	189892 50 g-index
115 all docs	115 docs citations	115 times ranked	434 citing authors

#	Article	IF	Citations
1	Monomial Ideals. , 2011, , .		325
2	Asymptotic Behaviour of the Castelnuovo-Mumford Regularity. Compositio Mathematica, 1999, 118, 243-261.	0.8	148
3	Binomial edge ideals and conditional independence statements. Advances in Applied Mathematics, 2010, 45, 317-333.	0.7	138
4	Componentwise linear ideals. Nagoya Mathematical Journal, 1999, 153, 141-153.	0.8	131
5	GrÃ¶bner bases and multiplicity of determinantal and pfaffian ideals. Advances in Mathematics, 1992, 96, 1-37.	1.1	109
6	Distributive Lattices, Bipartite Graphs and Alexander Duality. Journal of Algebraic Combinatorics, 2005, 22, 289-302.	0.8	109
7	Resolutions by mapping cones. Homology, Homotopy and Applications, 2002, 4, 277-294.	0.4	107
8	Discrete Polymatroids. Journal of Algebraic Combinatorics, 2002, 16, 239-268.	0.8	99
9	The depth of powers of an ideal. Journal of Algebra, 2005, 291, 534-550.	0.7	96
10	Squarefree lexsegment ideals. Mathematische Zeitschrift, 1998, 228, 353-378.	0.9	85
11	Symbolic powers of monomial ideals and vertex cover algebras. Advances in Mathematics, 2007, 210, 304-322.	1.1	83
12	How to compute the Stanley depth of a monomial ideal. Journal of Algebra, 2009, 322, 3151-3169.	0.7	81
13	Monomial ideals whose powers have a linear resolution. Mathematica Scandinavica, 2004, 95, 23.	0.2	81
14	Cohen-Macaulay binomial edge ideals. Nagoya Mathematical Journal, 2011, 204, 57-68.	0.8	78
15	Gotzmann Theorems for Exterior Algebras and Combinatorics. Journal of Algebra, 1997, 191, 174-211.	0.7	73
16	Koszul Modules. Journal of Pure and Applied Algebra, 2005, 201, 154-188.	0.6	64
17	Diracâ€™s theorem on chordal graphs and Alexander duality. European Journal of Combinatorics, 2004, 25, 949-960.	0.8	61
18	The stable set of associated prime ideals of a polymatroidal ideal. Journal of Algebraic Combinatorics, 2013, 37, 289-312.	0.8	54

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19	Cohenâ€“Macaulay chordal graphs. Journal of Combinatorial Theory - Series A, 2006, 113, 911-916.	0.8	52
20	Finite filtrations of modules and shellable multicomplexes. Manuscripta Mathematica, 2006, 121, 385-410.	0.6	51
21	Persistence and stability properties of powers of ideals. Journal of Pure and Applied Algebra, 2015, 219, 530-542.	0.6	45
22	Strongly Koszul algebras. Mathematica Scandinavica, 2000, 86, 161.	0.2	45
23	Koszul Cycles and Eliahouâ€“Kervaire Type Resolutions. Journal of Algebra, 1996, 181, 347-370.	0.7	44
24	Diagonal subalgebras of bigraded algebras and embeddings of blow-ups of projective spaces. American Journal of Mathematics, 1997, 119, 859-901.	1.1	40
25	Semigroup rings and simplicial complexes. Journal of Pure and Applied Algebra, 1997, 122, 185-208.	0.6	40
26	Binomial Ideals. Graduate Texts in Mathematics, 2018, , .	0.5	40
27	On multigraded resolutions. Mathematical Proceedings of the Cambridge Philosophical Society, 1995, 118, 245-257.	0.4	39
28	The trace of the canonical module. Israel Journal of Mathematics, 2019, 233, 133-165.	0.8	38
29	Stanley decompositions and partitionable simplicial complexes. Journal of Algebraic Combinatorics, 2008, 27, 113-125.	0.8	37
30	Standard graded vertex cover algebras, cycles and leaves. Transactions of the American Mathematical Society, 2008, 360, 6231-6249.	0.9	37
31	The Koszul property in affine semigroup rings. Pacific Journal of Mathematics, 1998, 186, 39-65.	0.5	36
32	Cohenâ€“Macaulay polymatroidal ideals. European Journal of Combinatorics, 2006, 27, 513-517.	0.8	32
33	Hilbert polynomials and powers of ideals. Mathematical Proceedings of the Cambridge Philosophical Society, 2008, 145, 623-642.	0.4	32
34	Monomial ideals and toric rings of Hibi type arising from a finite poset. European Journal of Combinatorics, 2011, 32, 404-421.	0.8	30
35	A Survey on Stanley Depth. Lecture Notes in Mathematics, 2013, , 3-45.	0.2	29
36	A note on the hilbertfunction of a one-dimensional Cohen-Macaulay ring. Manuscripta Mathematica, 1975, 16, 251-260.	0.6	28

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37	Duality and vanishing of generalized local cohomology. Archiv Der Mathematik, 2003, 81, 512-519.	0.5	27
38	Finite Lattices and Lexicographic GrÃ¶bner Bases. European Journal of Combinatorics, 2000, 21, 431-439.	0.8	25
39	Depth and regularity modulo a principal ideal. Journal of Algebraic Combinatorics, 2019, 49, 1-20.	0.8	23
40	Asymptotic linear bounds for the Castelnuovo-Mumford regularity. Transactions of the American Mathematical Society, 2002, 354, 1793-1809.	0.9	22
41	A Generalization of the Taylor Complex Construction. Communications in Algebra, 2007, 35, 1747-1756.	0.6	20
42	On the defining equations of the tangent cone of a numerical semigroup ring. Journal of Algebra, 2014, 418, 8-28.	0.7	20
43	Arithmetic of normal Rees algebras. Journal of Algebra, 1991, 143, 269-294.	0.7	19
44	s -Sequences and symmetric algebras. Manuscripta Mathematica, 2001, 104, 479-501.	0.6	18
45	Asymptotic growth of algebras associated to powers of ideals. Mathematical Proceedings of the Cambridge Philosophical Society, 2010, 148, 55-72.	0.4	18
46	t-Spread strongly stable monomial ideals*. Communications in Algebra, 2019, 47, 5303-5316.	0.6	18
47	Ordinary and symbolic powers are Golod. Advances in Mathematics, 2013, 246, 89-99.	1.1	16
48	Monomial localizations and polymatroidal ideals. European Journal of Combinatorics, 2013, 34, 752-763.	0.8	15
49	GrÃ¶bner bases of balanced polyominoes. Mathematische Nachrichten, 2015, 288, 775-783.	0.8	15
50	Monomial ideals whose depth function has any given number of strict local maxima. Arkiv for Matematik, 2014, 52, 11-19.	0.5	13
51	Almost symmetric numerical semigroups. Semigroup Forum, 2019, 98, 589-630.	0.6	13
52	Ideals generated by adjacent 2-minors. Journal of Commutative Algebra, 2012, 4, .	0.3	12
53	Squarefree monomial ideals with constant depth function. Journal of Pure and Applied Algebra, 2013, 217, 1764-1772.	0.6	12
54	Expansions of monomial ideals and multigraded modules. Rocky Mountain Journal of Mathematics, 2014, 44, .	0.4	12

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55	Letterplace and co-letterplace ideals of posets. Journal of Pure and Applied Algebra, 2017, 221, 1218-1241.	0.6	12
56	Monomial ideals with tiny squares. Journal of Algebra, 2018, 514, 99-112.	0.7	12
57	On the stable set of associated prime ideals of a monomial ideal. Archiv Der Mathematik, 2012, 98, 213-217.	0.5	11
58	The possible extremal Betti numbers of a homogeneous ideal. Proceedings of the American Mathematical Society, 2014, 142, 1875-1891.	0.8	11
59	The binomial edge ideal of a pair of graphs. Nagoya Mathematical Journal, 2014, 213, 105-125.	0.8	11
60	Linear flags and Koszul filtrations. Kyoto Journal of Mathematics, 2015, 55, .	0.3	11
61	Pseudo-Gorenstein and level Hibi rings. Journal of Algebra, 2015, 431, 138-161.	0.7	11
62	The coordinate ring of a simple polyomino. Illinois Journal of Mathematics, 2014, 58, .	0.1	11
63	Algebraically rigid simplicial complexes and graphs. Journal of Pure and Applied Algebra, 2016, 220, 2914-2935.	0.6	10
64	The linear strand of determinantal facet ideals. Michigan Mathematical Journal, 2017, 66, .	0.4	10
65	Symmetric and Rees algebras of Koszul cycles and their Grï¿½bner bases. Manuscripta Mathematica, 2003, 112, 489-509.	0.6	9
66	Linearly related polyominoes. Journal of Algebraic Combinatorics, 2015, 41, 949-968.	0.8	9
67	Kruskal-Katona type theorems for clique complexes arising from chordal and strongly chordal graphs. Combinatorica, 2008, 28, 315-323.	1.2	8
68	On the index of powers of edge ideals. Communications in Algebra, 2018, 46, 1080-1095.	0.6	8
69	The relevance of Freimanâ€™s theorem for combinatorial commutative algebra. Mathematische Zeitschrift, 2019, 291, 999-1014.	0.9	8
70	Canonical trace ideal and residue for numerical semigroup rings. Semigroup Forum, 2021, 103, 550-566.	0.6	8
71	Cohen-Macaulay binomial edge ideals. Nagoya Mathematical Journal, 2011, 204, 57-68.	0.8	8
72	Cohen-Macaulay Criteria for Projective Monomial Curves via GrÃ¶bner Bases. Acta Mathematica Vietnamica, 2019, 44, 51-64.	0.4	7

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73	Restricted classes of veronese type ideals and algebras. International Journal of Algebra and Computation, 2021, 31, 173-197.	0.5	7
74	REGULARITY OF REES ALGEBRAS. Journal of the London Mathematical Society, 2002, 65, 320-338.	1.0	6
75	A note on the regularity of Hibi rings. Manuscripta Mathematica, 2015, 148, 501-506.	0.6	6
76	Simplicial orders and chordality. Journal of Algebraic Combinatorics, 2017, 45, 1021-1039.	0.8	6
77	Koszul cycles and Golod rings. Manuscripta Mathematica, 2018, 157, 483-495.	0.6	6
78	Homological shift ideals. Collectanea Mathematica, 2021, 72, 157-174.	0.9	6
79	Powers of Componentwise Linear Ideals. , 2011, , 49-60.		6
80	Shellability of semigroup rings. Nagoya Mathematical Journal, 2002, 168, 65-84.	0.8	5
81	Componentwise linear ideals with minimal or maximal Betti numbers. Arkiv for Matematik, 2008, 46, 69-75.	0.5	5
82	Unmixed bipartite graphs and sublattices ofÂtheÂBoolean lattices. Journal of Algebraic Combinatorics, 2009, 30, 415-420.	0.8	5
83	Finite lattices and GrÃ¶bner bases. Mathematische Nachrichten, 2012, 285, 1969-1973.	0.8	5
84	Alexander duality for monomial ideals associated with isotone maps between posets. Journal of Algebra and Its Applications, 2016, 15, 1650089.	0.4	5
85	Betti Diagrams with Special Shape. Springer INdAM Series, 2017, , 33-52.	0.5	5
86	Measuring the non-Gorenstein locus of Hibi rings and normal affine semigroup rings. Journal of Algebra, 2019, 540, 78-99.	0.7	5
87	On the Symbolic Powers of Binomial Edge Ideals. Springer Proceedings in Mathematics and Statistics, 2020, , 43-50.	0.2	5
88	GrÃ¶bner bases of syzygies and Stanley depth. Journal of Algebra, 2011, 328, 178-189.	0.7	4
89	Generalized mixed product ideals. Archiv Der Mathematik, 2014, 103, 39-51.	0.5	4
90	On the set of trace ideals of a Noetherian ring. Beitrage Zur Algebra Und Geometrie, 2023, 64, 41-54.	0.5	4

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91	Stability properties of powers of ideals in regular local rings of small dimension. Pacific Journal of Mathematics, 2018, 295, 31-41.	0.5	3
92	The fiber cone of a monomial ideal in two variables. Journal of Symbolic Computation, 2019, 94, 52-69.	0.8	3
93	Matchings and squarefree powers of edge ideals. Journal of Combinatorial Theory - Series A, 2022, 188, 105585.	0.8	3
94	Level Rings Arising from Meet-Distributive Meet-Semilattices. Nagoya Mathematical Journal, 2006, 181, 29-39.	0.8	2
95	ISOTONIAN ALGEBRAS. Nagoya Mathematical Journal, 2018, 230, 83-101.	0.8	2
96	Graded Bourbaki ideals of graded modules. Mathematische Zeitschrift, 2021, 299, 1303-1330.	0.9	2
97	Matching Numbers and the Regularity of the Rees Algebra of an Edge Ideal. Annals of Combinatorics, 2020, 24, 577-586.	0.6	1
98	Systems of parameters and the Cohenâ€“Macaulay property. Journal of Algebraic Combinatorics, 0, , 1.	0.8	1
99	Koszul Algebras and Modules. , 2003, , 25-37.		1
100	Ulrich elements in normal simplicial affine semigroups. Pacific Journal of Mathematics, 2020, 309, 353-380.	0.5	1
101	The binomial edge ideal of a pair of graphs. Nagoya Mathematical Journal, 2014, 213, 105-125.	0.8	1
102	The edge ideal of a graph and its splitting graphs. Journal of Commutative Algebra, 2022, 14, .	0.3	1
103	The saturation number of c-bounded stable monomial ideals and their powers. Kyoto Journal of Mathematics, 2022, 62, .	0.3	1
104	Explicit linear minimal free resolutions over a natural class of Rees algebras. Archiv Der Mathematik, 2003, 81, 636-645.	0.5	0
105	Review of Commutative Algebra. Graduate Texts in Mathematics, 2018, , 35-58.	0.5	0
106	Binomial Edge Ideals and Related Ideals. Graduate Texts in Mathematics, 2018, , 171-238.	0.5	0
107	On the fiber cone of monomial ideals. Archiv Der Mathematik, 2019, 113, 469-481.	0.5	0
108	On the Gauss algebra of toric algebras. Journal of Algebraic Combinatorics, 2020, 51, 1-17.	0.8	0

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109	Join-Meet Ideals of Finite Lattices. Graduate Texts in Mathematics, 2018, , 141-170.	0.5	0
110	Ideals Generated by 2-Minors. Graduate Texts in Mathematics, 2018, , 239-270.	0.5	0
111	RINGS OF TETER TYPE. Nagoya Mathematical Journal, 0, , 1-29.	0.8	0