

# Michel Van den Bergh

## List of Publications by Year in descending order

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110  
papers

3,170  
citations

186265

28  
h-index

175258

52  
g-index

110  
all docs

110  
docs citations

110  
times ranked

608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modules over regular algebras of dimension 3. <i>Inventiones Mathematicae</i> , 1991, 106, 335-388.	2.5	247
2	Noetherian hereditary abelian categories satisfying Serre duality. <i>Journal of the American Mathematical Society</i> , 2002, 15, 295-366.	3.9	223
3	Semigroups of I-Type. <i>Journal of Algebra</i> , 1998, 206, 97-112.	0.7	166
4	Existence Theorems for Dualizing Complexes over Non-commutative Graded and Filtered Rings. <i>Journal of Algebra</i> , 1997, 195, 662-679.	0.7	157
5	Three-dimensional flops and noncommutative rings. <i>Duke Mathematical Journal</i> , 2004, 122, 423.	1.5	146
6	A relation between Hochschild homology and cohomology for Gorenstein rings. <i>Proceedings of the American Mathematical Society</i> , 1998, 126, 1345-1348.	0.8	128
7	Twisted homogeneous coordinate rings. <i>Journal of Algebra</i> , 1990, 133, 249-271.	0.7	119
8	Non-commutative Crepant Resolutions. , 2004, , 749-770.		116
9	Separable functors applied to graded rings. <i>Journal of Algebra</i> , 1989, 123, 397-413.	0.7	114
10	Double Poisson algebras. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 5711-5769.	0.9	112
11	Simplicity of Rings of Differential Operators in Prime Characteristic. <i>Proceedings of the London Mathematical Society</i> , 1997, 75, 32-62.	1.3	84
12	Homological properties of Sklyanin algebras. <i>Inventiones Mathematicae</i> , 1996, 124, 619-648.	2.5	77
13	Semi-invariants of quivers for arbitrary dimension vectors. <i>Indagationes Mathematicae</i> , 2001, 12, 125-138.	0.4	68
14	Hochschild cohomology of abelian categories and ringed spaces. <i>Advances in Mathematics</i> , 2005, 198, 172-221.	1.1	63
15	Deformation theory of abelian categories. <i>Transactions of the American Mathematical Society</i> , 2006, 358, 5441-5484.	0.9	59
16	On two examples by Iyama and Yoshino. <i>Compositio Mathematica</i> , 2011, 147, 591-612.	0.8	55
17	Hochschild cohomology and Atiyah classes. <i>Advances in Mathematics</i> , 2010, 224, 1839-1889.	1.1	53
18	Calabi-Yau algebras and superpotentials. <i>Selecta Mathematica, New Series</i> , 2015, 21, 555-603.	1.0	53

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19	The index of a Brauer class on a Brauer-Severi variety. Transactions of the American Mathematical Society, 1992, 333, 729-739.	0.9	51
20	Absolutely indecomposable representations and Kac-Moody Lie algebras. Inventiones Mathematicae, 2004, 155, 537-559.	2.5	48
21	Noncommutative homology of some three-dimensional quantum spaces. K-theory, 1994, 8, 213-230.	0.5	43
22	Central extensions of three dimensional Artin-Schelter regular algebras. Mathematische Zeitschrift, 1996, 222, 171-212.	0.9	43
23	Blowing up of non-commutative smooth surfaces. Memoirs of the American Mathematical Society, 2001, 154, 0-0.	0.9	42
24	A relation between a conjecture of Kac and the structure of the Hall algebra. Journal of Pure and Applied Algebra, 2001, 160, 319-332.	0.6	41
25	Deformed Calabi-Yau completions. Journal Fur Die Reine Und Angewandte Mathematik, 2011, 2011, .	0.9	41
26	A new algebraic approach to microlocalization of filtered rings. Transactions of the American Mathematical Society, 1989, 316, 537-553.	0.9	40
27	A Translation Principle for the Four-Dimensional Sklyanin Algebras. Journal of Algebra, 1996, 184, 435-490.	0.7	40
28	On the Double of the Hall Algebra of a Quiver. Journal of Algebra, 1999, 221, 135-160.	0.7	40
29	Erratum to "A relation between Hochschild homology and cohomology for Gorenstein rings". Proceedings of the American Mathematical Society, 2002, 130, 2809-2810.	0.8	36
30	Non-commutative resolutions of quotient singularities for reductive groups. Inventiones Mathematicae, 2017, 210, 3-67.	2.5	28
31	A class of counterexamples to the Gel'fand-Kirillov conjecture. Transactions of the American Mathematical Society, 1996, 348, 1709-1716.	0.9	26
32	Ideal classes of three-dimensional Sklyanin algebras. Journal of Algebra, 2004, 276, 515-551.	0.7	26
33	On global deformation quantization in the algebraic case. Journal of Algebra, 2007, 315, 326-395.	0.7	26
34	Noncommutative quadric surfaces. Journal of Noncommutative Geometry, 2013, 7, 817-856.	0.5	25
35	A degree inequality for Lie algebras with a regular Poisson semi-center. Journal of Algebra, 2010, 323, 305-322.	0.7	22
36	Fourier-Mukai transforms. , 2007, , 147-178.		21

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37	Noncommutative motives of Azumaya algebras. Journal of the Institute of Mathematics of Jussieu, 2015, 14, 379-403.	0.7	20
38	Non-commutative desingularization of $\mathbb{A}^1$ -determinantal varieties I. Inventiones Mathematicae, 2010, 182, 47-115.	2.5	19
39	On quantum spaces of Lie algebras. Proceedings of the American Mathematical Society, 1993, 119, 407-414.	0.8	18
40	Non-commutative $\mathbb{P}^1$ -bundles over commutative schemes. Transactions of the American Mathematical Society, 2012, 364, 6279-6313.	0.9	18
41	Linearisations of binary and ternary forms. Journal of Algebra, 1987, 109, 172-183.	0.7	17
42	Graded Modules of Gelfand–Kirillov Dimension One over Three-Dimensional Artin–Schelter Regular Algebras. Journal of Algebra, 1997, 196, 251-282.	0.7	15
43	On the derived category of Grassmannians in arbitrary characteristic. Compositio Mathematica, 2015, 151, 1242-1264.	0.8	15
44	Algebraic elements in division algebras over function fields of curves. Israel Journal of Mathematics, 1985, 52, 33-45.	0.8	13
45	Algebraic properties of linear cellular automata. Linear Algebra and Its Applications, 1991, 157, 217-234.	0.9	13
46	Cohen-Macaulayness of modules of covariants. Inventiones Mathematicae, 1991, 106, 389-409.	2.5	13
47	The Gelfand–Kirillov Conjecture for Lie Algebras of Dimension at Most Eight. Journal of Algebra, 2000, 227, 549-581.	0.7	13
48	Central extensions of three dimensional Artin–Schelter regular algebras. Mathematische Zeitschrift, 1996, 222, 171-212.	0.9	13
49	Grothendieck Groups and Tilting Objects. , 2001, 4, 1-23.		12
50	Ideal classes of three dimensional Artin–Schelter regular algebras. Journal of Algebra, 2005, 283, 399-429.	0.7	12
51	The Kontsevich Weight of a Wheel with Spokes Pointing Outward. Algebras and Representation Theory, 2009, 12, 443-479.	0.7	11
52	The Manin Hopf algebra of a Koszul Artin–Schelter regular algebra is quasi-hereditary. Advances in Mathematics, 2017, 305, 601-660.	1.1	11
53	Generalized crossed products applied to maximal orders, Brauer groups and related exact sequences. Journal of Pure and Applied Algebra, 1984, 33, 123-149.	0.6	10
54	Explicit rational forms for the Poincaré series of the trace rings of generic matrices. Israel Journal of Mathematics, 1991, 73, 17-31.	0.8	10

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55	Cohen-Macaulayness of semi-invariants for tori. Transactions of the American Mathematical Society, 1993, 336, 557-580.	0.9	10
56	Trace rings of generic matrices are Cohen-Macaulay. Journal of the American Mathematical Society, 1989, 2, 775-799.	3.9	10
57	Regularity of trace rings of generic matrices. Journal of Algebra, 1988, 117, 19-29.	0.7	9
58	Noncommutative Quadrics. International Mathematics Research Notices, 0, , .	1.0	9
59	Căldăraru's conjecture and Tsygan's formality. Annals of Mathematics, 2012, 176, 865-923.	4.2	9
60	Non-commutative Desingularization of Determinantal Varieties, II: Arbitrary Minors. International Mathematics Research Notices, 2016, 2016, 2748-2812.	1.0	9
61	An example of a non-Fourier Mukai functor between derived categories of coherent sheaves. Inventiones Mathematicae, 2019, 216, 927-1004.	2.5	9
62	A duality theorem for orders in central simple algebras over function fields. Journal of Pure and Applied Algebra, 1984, 31, 227-239.	0.6	8
63	Global dimension and regularity of rees rings for non-zariskian filtrations. Communications in Algebra, 1990, 18, 3195-3208.	0.6	8
64	Some rings of differential operators for $SL_2$ -invariants are simple. Journal of Pure and Applied Algebra, 1996, 107, 309-335.	0.6	8
65	Local Cohomology of Modules of Covariants. Advances in Mathematics, 1999, 144, 161-220.	1.1	8
66	A Hochschild cohomology comparison theorem for prestacks. Transactions of the American Mathematical Society, 2011, 363, 969-969.	0.9	8
67	The center of the generic division algebra. Journal of Algebra, 1989, 127, 106-126.	0.7	7
68	Representations of non-commutative quantum groups. Proceedings of the London Mathematical Society, 2015, 110, 57-82.	1.3	7
69	Additive invariants of orbifolds. Geometry and Topology, 2018, 22, 3003-3048.	1.3	7
70	A note on graded $k$ -theory. Communications in Algebra, 1986, 14, 1561-1564.	0.6	6
71	On schur rings of group rings of finite groups. Communications in Algebra, 1992, 20, 2139-2152.	0.6	6
72	Cohen-Macaulayness of Semi-Invariants for Tori. Transactions of the American Mathematical Society, 1993, 336, 557.	0.9	6

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73	Noncommutative motives of separable algebras. <i>Advances in Mathematics</i> , 2016, 303, 1122-1161.	1.1	6
74	Semiorthogonal decompositions of the categories of equivariant coherent sheaves for some reflection groups. <i>Journal of the European Mathematical Society</i> , 2019, 21, 2653-2749.	1.4	6
75	Explicit models for some stable categories of maximal Cohen-Macaulay modules. <i>Mathematical Research Letters</i> , 2016, 23, 1507-1526.	0.5	6
76	Trace Rings of Generic Matrices are Cohen-Macaulay. <i>Journal of the American Mathematical Society</i> , 1989, 2, 775.	3.9	5
77	Abstract blowing down. <i>Proceedings of the American Mathematical Society</i> , 1999, 128, 375-381.	0.8	5
78	The Gysin triangle via localization and $\mathbb{A}^1$ -homotopy invariance. <i>Transactions of the American Mathematical Society</i> , 2018, 370, 421-446.	0.9	5
79	The Frobenius morphism in invariant theory. <i>Advances in Mathematics</i> , 2019, 348, 183-254.	1.1	5
80	On a theorem of Cohen and Montgomery. <i>Proceedings of the American Mathematical Society</i> , 1985, 94, 562-562.	0.8	5
81	Division algebra coproducts of index $n$ . <i>Transactions of the American Mathematical Society</i> , 1994, 341, 505-517.	0.9	5
82	A Converse to Stanley's Conjecture for $Sl_2$ . <i>Proceedings of the American Mathematical Society</i> , 1994, 121, 47.	0.8	3
83	Normalizing Extensions of the Two-Veronese of a Three Dimensional Artin-Schelter Regular Algebra on Two Generators. <i>Journal of Algebra</i> , 1998, 205, 368-390.	0.7	3
84	Some New Examples of Nondegenerate Quiver Potentials. <i>International Mathematics Research Notices</i> , 2013, 2013, 4672-4686.	1.0	3
85	Scalar extensions of derived categories and non-Fourier-Mukai functors. <i>Advances in Mathematics</i> , 2015, 281, 1100-1144.	1.1	3
86	On Involutivity of $p$ -Support. <i>International Mathematics Research Notices</i> , 2015, 2015, 6295-6304.	1.0	3
87	Non-Commutative Crepant Resolutions for Some Toric Singularities I. <i>International Mathematics Research Notices</i> , 2020, 2020, 8120-8138.	1.0	3
88	Semi-orthogonal decompositions of GIT quotient stacks. <i>Selecta Mathematica, New Series</i> , 2021, 27, 1.	1.0	3
89	The Bousfield Structure on the Derived Endomorphism Algebra of the Unit in a Monoidal Category. <i>International Mathematics Research Notices</i> , 2023, 2023, 1690-1729.	1.0	3
90	Note on the $K_0$ of rings with Zariskian filtration. <i>K-theory</i> , 1990, 3, 603-606.	0.5	2

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91	On the Number of Absolutely Indecomposable Representations of a Quiver. Journal of Algebra, 1999, 221, 29-49.	0.7	2
92	The representation theory of non-commutative $\mathcal{O}(GL_2)$ . Journal of Noncommutative Geometry, 2017, 11, 845-885.	0.5	2
93	Freely adjoining monoidal duals. Mathematical Structures in Computer Science, 2021, 31, 748-768.	0.6	2
94	t-structures and twisted complexes on derived injectives. Advances in Mathematics, 2021, 387, 107826.	1.1	2
95	A converse to Stanley's conjecture for $??\tilde{a},,$ . Proceedings of the American Mathematical Society, 1994, 121, 47-51.	0.8	2
96	Non-commutative crepant resolutions for some toric singularities. II. Journal of Noncommutative Geometry, 2020, 14, 73-103.	0.5	2
97	ON THE STRUCTURE OF NON-COMMUTATIVE REGULAR LOCAL RINGS OF DIMENSION TWO. Communications in Algebra, 2002, 30, 4575-4588.	0.6	1
98	On incidence between strata of the Hilbert scheme of points on $\mathbb{P}^2$ . Mathematische Zeitschrift, 2007, 255, 897-922.	0.9	1
99	On compact generation of deformed schemes. Advances in Mathematics, 2013, 244, 441-464.	1.1	1
100	Noncommutative versions of some classical birational transformations. Journal of Noncommutative Geometry, 2016, 10, 221-244.	0.5	1
101	A non-commutative Bertini theorem. Journal of Noncommutative Geometry, 2019, 13, 609-616.	0.5	1
102	Tilting Bundles on Hypertoric Varieties. International Mathematics Research Notices, 2021, 2021, 1034-1042.	1.0	1
103	Motivic concentration theorem. Mathematical Research Letters, 2020, 27, 565-589.	0.5	1
104	Perverse schobers and GKZ systems. Advances in Mathematics, 2022, 402, 108307.	1.1	1
105	Group rings over Dedekind rings. Israel Journal of Mathematics, 1988, 61, 295-300.	0.8	0
106	Cohen-Macaulayness of modules of invariants for $SL_2$ . Journal of Algebra, 1991, 142, 273-284.	0.7	0
107	Interactions between Algebraic Geometry and Noncommutative Algebra. Oberwolfach Reports, 2007, 3, 1319-1384.	0.0	0
108	Comparing the commutative and non-commutative resolutions for determinantal varieties of skew symmetric and symmetric matrices. Advances in Mathematics, 2017, 317, 350-370.	1.1	0

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109	Interactions between Algebraic Geometry and Noncommutative Algebra. Oberwolfach Reports, 2018, 15, 1465-1515.	0.0	0
110	On the noncommutative Bondal–Orlov conjecture for some toric varieties. Mathematische Zeitschrift, 2022, 300, 1055-1068.	0.9	0