

# Christoph Schweigert

## List of Publications by Year in descending order

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92  
papers

2,933  
citations

172457

29  
h-index

175258

52  
g-index

95  
all docs

95  
docs citations

95  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	TFT construction of RCFT correlators I: partition functions. Nuclear Physics B, 2002, 646, 353-497.	2.5	281
2	Duality and defects in rational conformal field theory. Nuclear Physics B, 2007, 763, 354-430.	2.5	191
3	Flux Stabilization of D-branes. Journal of High Energy Physics, 2000, 2000, 048-048.	4.7	171
4	The geometry of WZW branes. Journal of Geometry and Physics, 2000, 34, 162-190.	1.4	145
5	Kramers-Wannier Duality from Conformal Defects. Physical Review Letters, 2004, 93, 070601.	7.8	130
6	From Dynkin diagram symmetries to fixed point structures. Communications in Mathematical Physics, 1996, 180, 39-97.	2.2	108
7	Bicategories for Boundary Conditions and for Surface Defects in 3-d TFT. Communications in Mathematical Physics, 2013, 321, 543-575.	2.2	102
8	Correspondences of ribbon categories. Advances in Mathematics, 2006, 199, 192-329.	1.1	90
9	Symmetry breaking boundary conditions and WZW orbifolds. Advances in Theoretical and Mathematical Physics, 1999, 3, 671-726.	0.6	89
10	TFT construction of RCFT correlators IV:. Nuclear Physics B, 2005, 715, 539-638.	2.5	78
11	Symmetry breaking boundaries I. General theory. Nuclear Physics B, 1999, 558, 419-483.	2.5	76
12	Title is missing!. Compositio Mathematica, 2002, 131, 189-238.	0.8	67
13	Branes: from free fields to general backgrounds. Nuclear Physics B, 1998, 530, 99-136.	2.5	66
14	Conformal Boundary Conditions and Three-Dimensional Topological Field Theory. Physical Review Letters, 2000, 84, 1659-1662.	7.8	62
15	Topological defects for the free boson CFT. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11403-11440.	2.1	62
16	TFT construction of RCFT correlators: unoriented world sheets. Nuclear Physics B, 2004, 678, 511-637.	2.5	61
17	A classifying algebra for boundary conditions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 251-259.	4.1	58
18	Some Automorphisms of Generalized Kac-Moody Algebras. Journal of Algebra, 1997, 191, 518-540.	0.7	52

#	ARTICLE	IF	CITATIONS
19	Conformal correlation functions, Frobenius algebras and triangulations. Nuclear Physics B, 2002, 624, 452-468.	2.5	52
20	Projections in string theory and boundary states for Gepner models. Nuclear Physics B, 2000, 588, 110-148.	2.5	51
21	TFT construction of RCFT correlatorsIII: simple currents. Nuclear Physics B, 2004, 694, 277-353.	2.5	51
22	The resolution of field identification fixed points in diagonal coset theories. Nuclear Physics B, 1996, 461, 371-404.	2.5	47
23	Universality in Quantum Hall Systems: Coset Construction of Incompressible States. Journal of Statistical Physics, 2001, 103, 527-567.	1.2	47
24	TFT construction of RCFT correlators. Nuclear Physics B, 2004, 694, 277-353.	2.5	47
25	Symmetry breaking boundaries. Nuclear Physics B, 2000, 568, 543-593.	2.5	42
26	Uniqueness of open/closed rational CFT with given algebra of open states. Advances in Theoretical and Mathematical Physics, 2008, 12, 1283-1375.	0.6	42
27	Unoriented WZW Models and Holonomy of Bundle Gerbes. Communications in Mathematical Physics, 2007, 274, 31-64.	2.2	38
28	On moduli spaces of flat connections with non-simply connected structure group. Nuclear Physics B, 1997, 492, 743-755.	2.5	37
29	Bi-branes: Target space geometry for world sheet topological defects. Journal of Geometry and Physics, 2008, 58, 576-598.	1.4	36
30	Completeness of boundary conditions for the critical three-state Potts model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 141-146.	4.1	26
31	Matrix product operator symmetries and intertwiners in string-nets with domain walls. SciPost Physics, 2021, 10, .	4.9	26
32	Consistent systems of correlators in non-semisimple conformal field theory. Advances in Mathematics, 2017, 307, 598-639.	1.1	25
33	Orbifold analysis of broken bulk symmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 447, 266-276.	4.1	22
34	A Geometric Approach to Boundaries and Surface Defects in Dijkgraaf-Witten Theories. Communications in Mathematical Physics, 2014, 332, 981-1015.	2.2	22
35	Solitonic sectors, $\hat{\mathbb{Z}}$ -induction and symmetry breaking boundaries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 490, 163-172.	4.1	21
36	Modular invariant Frobenius algebras from ribbon Hopf algebra automorphisms. Journal of Algebra, 2012, 363, 29-72.	0.7	21

#	ARTICLE	IF	CITATIONS
37	On the Brauer Groups of Symmetries of Abelian Dijkgraaf-Witten Theories. Communications in Mathematical Physics, 2015, 339, 385-405.	2.2	21
38	The Action of Outer Automorphisms on Bundles of Chiral Blocks. Communications in Mathematical Physics, 1999, 206, 691-736.	2.2	20
39	Equivariance in higher geometry. Advances in Mathematics, 2011, 226, 3367-3408.	1.1	20
40	On the configuration space of gauge theories. Nuclear Physics B, 1994, 426, 107-128.	2.5	19
41	The Fusion Algebra of Bimodule Categories. Applied Categorical Structures, 2008, 16, 123-140.	0.5	19
42	Twenty five years of two-dimensional rational conformal field theory. Journal of Mathematical Physics, 2010, 51, .	1.1	16
43	Some remarks on defects and T-duality. Nuclear Physics B, 2009, 819, 478-490.	2.5	15
44	Modular invariants and fusion rule automorphisms from Galois theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 334, 113-120.	4.1	13
45	The classifying algebra for defects. Nuclear Physics B, 2011, 843, 673-723.	2.5	13
46	Eilenberg-Watts calculus for finite categories and a bimodule Radford $S^4$ theorem. Transactions of the American Mathematical Society, 2019, 373, 1-40.	0.9	13
47	From non-semisimple Hopf algebras to correlation functions for logarithmic CFT. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 494008.	2.1	12
48	A Note on Permutation Twist Defects in Topological Bilayer Phases. Letters in Mathematical Physics, 2014, 104, 1385-1405.	1.1	12
49	Higher genus mapping class group invariants from factorizable Hopf algebras. Advances in Mathematics, 2014, 250, 285-319.	1.1	12
50	Non-hermitian symmetric $N = 2$ coset models, Poincaré polynomials, and string compactification. Nuclear Physics B, 1994, 411, 181-222.	2.5	11
51	Equivariant modular categories via Dijkgraaf-Witten theory. Advances in Theoretical and Mathematical Physics, 2012, 16, 289-358.	0.6	11
52	Level-Rank Duality of WZW Theories and Isomorphisms of $N = 2$ Coset Models. Annals of Physics, 1994, 234, 102-140.	2.8	10
53	Orbifold construction for topological field theories. Journal of Pure and Applied Algebra, 2019, 223, 1167-1192.	0.6	10
54	Partially dualized Hopf algebras have equivalent Yetter-Drinfel'd modules. Journal of Algebra, 2015, 430, 303-342.	0.7	9

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55	On the classification of $N=2$ superconformal coset theories. <i>Communications in Mathematical Physics</i> , 1992, 149, 425-431.	2.2	8
56	Extended geometry of black holes. <i>Classical and Quantum Gravity</i> , 1995, 12, 173-179.	4.0	8
57	Extended homotopy quantum field theories and their orbifoldization. <i>Journal of Pure and Applied Algebra</i> , 2020, 224, 106213.	0.6	8
58	Quasi-Galois symmetries of the modular $S$ -matrix. <i>Communications in Mathematical Physics</i> , 1996, 176, 447-465.	2.2	7
59	Hochschild cohomology and the modular group. <i>Journal of Algebra</i> , 2018, 507, 400-420.	0.7	7
60	The logarithmic Cardy case: Boundary states and annuli. <i>Nuclear Physics B</i> , 2018, 930, 287-327.	2.5	7
61	Homotopy coherent mapping class group actions and excision for Hochschild complexes of modular categories. <i>Advances in Mathematics</i> , 2021, 386, 107814.	1.1	7
62	A geometric construction for permutation equivariant categories from modular functors. <i>Transformation Groups</i> , 2011, 16, 287-337.	0.7	6
63	The Hochschild complex of a finite tensor category. <i>Algebraic and Geometric Topology</i> , 2021, 21, 3689-3734.	0.4	6
64	INTERNAL NATURAL TRANSFORMATIONS AND FROBENIUS ALGEBRAS IN THE DRINFELD CENTER. <i>Transformation Groups</i> , 0, , 1.	0.7	6
65	The three-dimensional origin of the classifying algebra. <i>Nuclear Physics B</i> , 2010, 824, 333-364.	2.5	5
66	A Trace for Bimodule Categories. <i>Applied Categorical Structures</i> , 2017, 25, 227-268.	0.5	5
67	Bulk from boundary in finite CFT by means of pivotal module categories. <i>Nuclear Physics B</i> , 2021, 967, 115392.	2.5	5
68	The Cardy-Cartan modular invariant. , 2012, , 289-304.		5
69	Poincaré $\frac{1}{2}$ polynomials and level rank dualities in the $N=2$ coset construction. <i>Theoretical and Mathematical Physics (Russian Federation)</i> , 1994, 98, 326-334.	0.9	4
70	On unrolled Hopf algebras. <i>Journal of Knot Theory and Its Ramifications</i> , 2018, 27, 1850053.	0.3	4
71	WZW Fusion Rings in the Limit of Infinite Level. <i>Communications in Mathematical Physics</i> , 1997, 185, 641-670.	2.2	3
72	KRAMERS-CARTAN WANNIERS DUALITIES FOR WZW THEORIES AND MINIMAL MODELS. <i>Communications in Contemporary Mathematics</i> , 2008, 10, 773-789.	1.2	3

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73	Modular categories from finite crossed modules. <i>Journal of Pure and Applied Algebra</i> , 2011, 215, 2196-2208.	0.6	3
74	On the extended Poincaré polynomial. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 352, 276-285.	4.1	2
75	New maverick coset theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 466, 206-210.	4.1	2
76	On the Rosenberg-Zelinsky sequence in abelian monoidal categories. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2010, 2010, 1-36.	0.9	2
77	Module Categories For Permutation Modular Invariants. <i>International Mathematics Research Notices</i> , 2010, , .	1.0	2
78	Surface defects and symmetries. <i>Journal of Physics: Conference Series</i> , 2015, 597, 012002.	0.4	2
79	Hopf Algebras and Frobenius Algebras in Finite Tensor Categories. <i>Progress in Mathematics</i> , 2012, , 189-203.	0.3	2
80	Gerbes and Lie Groups. <i>Progress in Mathematics</i> , 2011, , 339-364.	0.3	2
81	A reason for fusion rules to be even. <i>Journal of Physics A</i> , 2002, 35, L255-L259.	1.6	1
82	Boundaries, Defects and Frobenius Algebras. <i>Annales Henri Poincare</i> , 2003, 4, 175-182.	1.7	1
83	Topologizations of Chiral Representations. <i>Communications in Mathematical Physics</i> , 2004, 245, 429-448.	2.2	1
84	Mini-Workshop: New Interactions between Homotopical Algebra and Quantum Field Theory. <i>Oberwolfach Reports</i> , 2016, 13, 3261-3287.	0.0	0
85	Categorical tools for state sum constructions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 911-912.	0.2	0
86	A GNS construction of three-dimensional abelian Dijkgraaf-Witten theories. <i>Reviews in Mathematical Physics</i> , 2018, 30, 1850005.	1.7	0
87	Full Logarithmic Conformal Field theory – an Attempt at a Status Report. <i>Fortschritte Der Physik</i> , 2019, 67, 1910018.	4.4	0
88	On Isotypic Decompositions for Non-Semisimple Hopf Algebras. <i>Algebras and Representation Theory</i> , 2022, 25, 447-475.	0.7	0
89	D-Brane Conformal Field Theory and Bundles of Conformal Blocks. , 2001, , 489-498.		0
90	Conformal Boundary Conditions and 3D Topological Field Theory. , 2002, , 185-194.		0

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91	Boundaries, Defects and Frobenius Algebras. , 2003, , 175-182.		0
92	Frobeniusâ€™Schur indicators and the mapping class group of the torus. Letters in Mathematical Physics, 2022, 112, 1.	1.1	0