

Christoph Schweigert

List of Publications by Year in descending order

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92
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2,933
citations

172457

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52
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95
docs citations

95
times ranked

541
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On Isotypic Decompositions for Non-Semisimple Hopf Algebras. <i>Algebras and Representation Theory</i> , 2022, 25, 447-475. | 0.7 | 0 |
| 2 | Frobenius-Schur indicators and the mapping class group of the torus. <i>Letters in Mathematical Physics</i> , 2022, 112, 1. | 1.1 | 0 |
| 3 | Matrix product operator symmetries and intertwiners in string-nets with domain walls. <i>SciPost Physics</i> , 2021, 10, . | 4.9 | 26 |
| 4 | Bulk from boundary in finite CFT by means of pivotal module categories. <i>Nuclear Physics B</i> , 2021, 967, 115392. | 2.5 | 5 |
| 5 | 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 |
| 6 | The Hochschild complex of a finite tensor category. <i>Algebraic and Geometric Topology</i> , 2021, 21, 3689-3734. | 0.4 | 6 |
| 7 | Extended homotopy quantum field theories and their orbifoldization. <i>Journal of Pure and Applied Algebra</i> , 2020, 224, 106213. | 0.6 | 8 |
| 8 | Orbifold construction for topological field theories. <i>Journal of Pure and Applied Algebra</i> , 2019, 223, 1167-1192. | 0.6 | 10 |
| 9 | Full Logarithmic Conformal Field theory - an Attempt at a Status Report. <i>Fortschritte Der Physik</i> , 2019, 67, 1910018. | 4.4 | 0 |
| 10 | Eilenberg-Watts calculus for finite categories and a bimodule Radford S^4 theorem. <i>Transactions of the American Mathematical Society</i> , 2019, 373, 1-40. | 0.9 | 13 |
| 11 | On unrolled Hopf algebras. <i>Journal of Knot Theory and Its Ramifications</i> , 2018, 27, 1850053. | 0.3 | 4 |
| 12 | A GNS construction of three-dimensional abelian Dijkgraaf-Witten theories. <i>Reviews in Mathematical Physics</i> , 2018, 30, 1850005. | 1.7 | 0 |
| 13 | Hochschild cohomology and the modular group. <i>Journal of Algebra</i> , 2018, 507, 400-420. | 0.7 | 7 |
| 14 | The logarithmic Cardy case: Boundary states and annuli. <i>Nuclear Physics B</i> , 2018, 930, 287-327. | 2.5 | 7 |
| 15 | A Trace for Bimodule Categories. <i>Applied Categorical Structures</i> , 2017, 25, 227-268. | 0.5 | 5 |
| 16 | Consistent systems of correlators in non-semisimple conformal field theory. <i>Advances in Mathematics</i> , 2017, 307, 598-639. | 1.1 | 25 |
| 17 | Mini-Workshop: New Interactions between Homotopical Algebra and Quantum Field Theory. <i>Oberwolfach Reports</i> , 2016, 13, 3261-3287. | 0.0 | 0 |
| 18 | Categorical tools for state sum constructions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 911-912. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Surface defects and symmetries. Journal of Physics: Conference Series, 2015, 597, 012002. | 0.4 | 2 |
| 20 | Partially dualized Hopf algebras have equivalent Yetter-Drinfel'd modules. Journal of Algebra, 2015, 430, 303-342. | 0.7 | 9 |
| 21 | On the Brauer Groups of Symmetries of Abelian Dijkgraaf-Witten Theories. Communications in Mathematical Physics, 2015, 339, 385-405. | 2.2 | 21 |
| 22 | A Note on Permutation Twist Defects in Topological Bilayer Phases. Letters in Mathematical Physics, 2014, 104, 1385-1405. | 1.1 | 12 |
| 23 | Higher genus mapping class group invariants from factorizable Hopf algebras. Advances in Mathematics, 2014, 250, 285-319. | 1.1 | 12 |
| 24 | A Geometric Approach to Boundaries and Surface Defects in Dijkgraaf-Witten Theories. Communications in Mathematical Physics, 2014, 332, 981-1015. | 2.2 | 22 |
| 25 | Bicategories for Boundary Conditions and for Surface Defects in 3-d TFT. Communications in Mathematical Physics, 2013, 321, 543-575. | 2.2 | 102 |
| 26 | From non-semisimple Hopf algebras to correlation functions for logarithmic CFT. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 494008. | 2.1 | 12 |
| 27 | Modular invariant Frobenius algebras from ribbon Hopf algebra automorphisms. Journal of Algebra, 2012, 363, 29-72. | 0.7 | 21 |
| 28 | Hopf Algebras and Frobenius Algebras in Finite Tensor Categories. Progress in Mathematics, 2012, , 189-203. | 0.3 | 2 |
| 29 | The Cardy-Cartan modular invariant. , 2012, , 289-304. | | 5 |
| 30 | Equivariant modular categories via Dijkgraaf-Witten theory. Advances in Theoretical and Mathematical Physics, 2012, 16, 289-358. | 0.6 | 11 |
| 31 | The classifying algebra for defects. Nuclear Physics B, 2011, 843, 673-723. | 2.5 | 13 |
| 32 | A geometric construction for permutation equivariant categories from modular functors. Transformation Groups, 2011, 16, 287-337. | 0.7 | 6 |
| 33 | Equivariance in higher geometry. Advances in Mathematics, 2011, 226, 3367-3408. | 1.1 | 20 |
| 34 | Modular categories from finite crossed modules. Journal of Pure and Applied Algebra, 2011, 215, 2196-2208. | 0.6 | 3 |
| 35 | Gerbes and Lie Groups. Progress in Mathematics, 2011, , 339-364. | 0.3 | 2 |
| 36 | On the Rosenberg-Zelinsky sequence in abelian monoidal categories. Journal Fur Die Reine Und Angewandte Mathematik, 2010, 2010, 1-36. | 0.9 | 2 |

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|----|--|-----|-----------|
| 37 | Module Categories For Permutation Modular Invariants. International Mathematics Research Notices, 2010, , . | 1.0 | 2 |
| 38 | Twenty five years of two-dimensional rational conformal field theory. Journal of Mathematical Physics, 2010, 51, . | 1.1 | 16 |
| 39 | The three-dimensional origin of the classifying algebra. Nuclear Physics B, 2010, 824, 333-364. | 2.5 | 5 |
| 40 | Some remarks on defects and T-duality. Nuclear Physics B, 2009, 819, 478-490. | 2.5 | 15 |
| 41 | The Fusion Algebra of Bimodule Categories. Applied Categorical Structures, 2008, 16, 123-140. | 0.5 | 19 |
| 42 | Bi-branes: Target space geometry for world sheet topological defects. Journal of Geometry and Physics, 2008, 58, 576-598. | 1.4 | 36 |
| 43 | KRAMERSâ€™WANNIER DUALITIES FOR WZW THEORIES AND MINIMAL MODELS. Communications in Contemporary Mathematics, 2008, 10, 773-789. | 1.2 | 3 |
| 44 | 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 |
| 45 | Topological defects for the free boson CFT. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11403-11440. | 2.1 | 62 |
| 46 | Duality and defects in rational conformal field theory. Nuclear Physics B, 2007, 763, 354-430. | 2.5 | 191 |
| 47 | Unoriented WZW Models and Holonomy of Bundle Gerbes. Communications in Mathematical Physics, 2007, 274, 31-64. | 2.2 | 38 |
| 48 | Correspondences of ribbon categories. Advances in Mathematics, 2006, 199, 192-329. | 1.1 | 90 |
| 49 | TFT construction of RCFT correlators IV:. Nuclear Physics B, 2005, 715, 539-638. | 2.5 | 78 |
| 50 | Kramers-Wannier Duality from Conformal Defects. Physical Review Letters, 2004, 93, 070601. | 7.8 | 130 |
| 51 | Topologizations of Chiral Representations. Communications in Mathematical Physics, 2004, 245, 429-448. | 2.2 | 1 |
| 52 | TFT construction of RCFT correlatorsÂII: unorientedÂworld sheets. Nuclear Physics B, 2004, 678, 511-637. | 2.5 | 61 |
| 53 | TFT construction of RCFT correlators. Nuclear Physics B, 2004, 694, 277-353. | 2.5 | 47 |
| 54 | TFT construction of RCFT correlatorsIII: simple currents. Nuclear Physics B, 2004, 694, 277-353. | 2.5 | 51 |

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|----|---|-----|-----------|
| 55 | Boundaries, Defects and Frobenius Algebras. Annales Henri Poincare, 2003, 4, 175-182. | 1.7 | 1 |
| 56 | Boundaries, Defects and Frobenius Algebras. , 2003, , 175-182. | | 0 |
| 57 | A reason for fusion rules to be even. Journal of Physics A, 2002, 35, L255-L259. | 1.6 | 1 |
| 58 | Conformal correlation functions, Frobenius algebras and triangulations. Nuclear Physics B, 2002, 624, 452-468. | 2.5 | 52 |
| 59 | TFT construction of RCFT correlators I: partition functions. Nuclear Physics B, 2002, 646, 353-497. | 2.5 | 281 |
| 60 | Title is missing!. Compositio Mathematica, 2002, 131, 189-238. | 0.8 | 67 |
| 61 | Conformal Boundary Conditions and 3D Topological Field Theory. , 2002, , 185-194. | | 0 |
| 62 | Universality in Quantum Hall Systems: Coset Construction of Incompressible States. Journal of Statistical Physics, 2001, 103, 527-567. | 1.2 | 47 |
| 63 | D-Brane Conformal Field Theory and Bundles of Conformal Blocks. , 2001, , 489-498. | | 0 |
| 64 | Solitonic sectors, \hat{L}_\pm -induction and symmetry breaking boundaries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 490, 163-172. | 4.1 | 21 |
| 65 | The geometry of WZW branes. Journal of Geometry and Physics, 2000, 34, 162-190. | 1.4 | 145 |
| 66 | Flux Stabilization of D-branes. Journal of High Energy Physics, 2000, 2000, 048-048. | 4.7 | 171 |
| 67 | Conformal Boundary Conditions and Three-Dimensional Topological Field Theory. Physical Review Letters, 2000, 84, 1659-1662. | 7.8 | 62 |
| 68 | Projections in string theory and boundary states for Gepner models. Nuclear Physics B, 2000, 588, 110-148. | 2.5 | 51 |
| 69 | Symmetry breaking boundaries. Nuclear Physics B, 2000, 568, 543-593. | 2.5 | 42 |
| 70 | New maverick coset theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 466, 206-210. | 4.1 | 2 |
| 71 | Orbifold analysis of broken bulk symmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 447, 266-276. | 4.1 | 22 |
| 72 | The Action of Outer Automorphisms on Bundles of Chiral Blocks. Communications in Mathematical Physics, 1999, 206, 691-736. | 2.2 | 20 |

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|----|---|-----|-----------|
| 73 | Symmetry breaking boundaries I. General theory. Nuclear Physics B, 1999, 558, 419-483. | 2.5 | 76 |
| 74 | Symmetry breaking boundary conditions and WZW orbifolds. Advances in Theoretical and Mathematical Physics, 1999, 3, 671-726. | 0.6 | 89 |
| 75 | 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 |
| 76 | Branes: from free fields to general backgrounds. Nuclear Physics B, 1998, 530, 99-136. | 2.5 | 66 |
| 77 | On moduli spaces of flat connections with non-simply connected structure group. Nuclear Physics B, 1997, 492, 743-755. | 2.5 | 37 |
| 78 | A classifying algebra for boundary conditions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 251-259. | 4.1 | 58 |
| 79 | WZW Fusion Rings in the Limit of Infinite Level. Communications in Mathematical Physics, 1997, 185, 641-670. | 2.2 | 3 |
| 80 | Some Automorphisms of Generalized Kac-Moody Algebras. Journal of Algebra, 1997, 191, 518-540. | 0.7 | 52 |
| 81 | The resolution of field identification fixed points in diagonal coset theories. Nuclear Physics B, 1996, 461, 371-404. | 2.5 | 47 |
| 82 | Quasi-Galois symmetries of the modular S-matrix. Communications in Mathematical Physics, 1996, 176, 447-465. | 2.2 | 7 |
| 83 | From Dynkin diagram symmetries to fixed point structures. Communications in Mathematical Physics, 1996, 180, 39-97. | 2.2 | 108 |
| 84 | On the extended Poincaré polynomial. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 276-285. | 4.1 | 2 |
| 85 | Extended geometry of black holes. Classical and Quantum Gravity, 1995, 12, 173-179. | 4.0 | 8 |
| 86 | Level-Rank Duality of WZW Theories and Isomorphisms of $N = 2$ Coset Models. Annals of Physics, 1994, 234, 102-140. | 2.8 | 10 |
| 87 | 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 |
| 88 | Poincaré polynomials and level rank dualities in the $N=2$ coset construction. Theoretical and Mathematical Physics (Russian Federation), 1994, 98, 326-334. | 0.9 | 4 |
| 89 | Non-hermitian symmetric $N = 2$ coset models, Poincaré polynomials, and string compactification. Nuclear Physics B, 1994, 411, 181-222. | 2.5 | 11 |
| 90 | On the configuration space of gauge theories. Nuclear Physics B, 1994, 426, 107-128. | 2.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | On the classification of $N=2$ superconformal coset theories. Communications in Mathematical Physics, 1992, 149, 425-431. | 2.2 | 8 |
| 92 | INTERNAL NATURAL TRANSFORMATIONS AND FROBENIUS ALGEBRAS IN THE DRINFELD CENTER. Transformation Groups, 0, , 1. | 0.7 | 6 |