Glossary-Contents

# Catalan

- BenjaminCameronQuinnYerger2010, *Catalan determinants - A combinatorial approach,* Congr. Numer. Proc. 12-th Conf. on Fib. nbs. and their Appl. Vol. 200 (2010), 169-177, gen>
- IshikawaTagawaZeng2009, *A q-analogue of Catalan Hankel determinants,* RIMS Kôkyûroku Bessatsu B11 (2009), 19–41, nat>

## Catalan-like(_type)

- Aigner1999a, *Catalan-like numbers and determinants,* J. Combin. Theory Ser. A, **87**, Issue 1, Jul 1999, 33–51, jou>
- Barry2009a, *A note on a one-parameter family of Catalan-like numbers,* J. Integer Seq. Vol. 12 (2009), Article 09.5.4, jis>
- FerrariPergolaPinzaniRinaldi2011, *Some applications arising from the interactions between the theory of Catalan-like numbers and the ECO method,* Ars Combin. 2011 (vol.99): 1-29, gen>
- FerrariPinzani2005, *Catalan-like numbers and succession rules,* PU.M.A. Vol. 16 (2005), No. 3, 229-250, gen>
- NkwantaBarnes2012, *Two Catalan-type Riordan arrays and their connections to the Chebyshev polynomials of the first kind,* J. Integer Seq. Vol. 15 (2012), Article 12.3.3, jis>

Catalan (q-)numbers

- Arreghi2001a, *Tangent and Bernoulli numbers related to Motzkin and Catalan numbers by means of numerical triangles,* arXiv (17 Sept 2001), aXv>
- BenjaminCameronQuinnYerger2010, *Catalan determinants - A combinatorial approach,* Congr. Numer. Proc. 12-th Conf. on Fib. nbs. and their Appl. Vol. 200 (2010), 169-177, gen>
- Bernhart1999, *Catalan, Motzkin, and Riordan numbers,* Discrete Math. Vol. 204, Issues 1–3, 6 Jun 1999, 73–112, gen>
- Bouras2013, *A new characterization of Catalan numbers related to Hankel transforms and Fibonacci numbers,* J. Integer Seq. Vol. 16 (2013), Article 13.3.3, jou>
- Boyadzhiev2012, *Series with central binomial coefficients, Catalan numbers, and harmonic numbers,* J. Integer Seq. Vol. 15 (2012), Article 12.1.7, jis>
- ChammamMarcellanSfaxi2012, *Orthogonal polynomials, Catalan numbers, and a general Hankel determinant evaluation,* Linear Algebra Appl Vol. 436, Issue 7, Apr 2012, 2105-2116, gen>
- ChenChu2009, *Moments on Catalan numbers,* J. Math. Anal. Appl. Vol. 349, Issue 2, 15 Jan 2009, 311–316, jou>

- Cigler2013, *Some remarks about q-Chebyshev polynomials and q-Catalan numbers and related results,* arXiv (? 2013), aXv>
- CvetkovicRajkovicIvkovic2002, *Catalan numbers, the Hankel transform, and Fibonacci numbers,* J. Integer Seq. Vol. 5 (2002), Article 02.1.3, jis>
- DengYan2008, *Some identities on the Catalan, Motzkin and Schröder numbers,* Discrete Appl. Math. Vol. 156, Issue 14, Jul 2008, 2781–2789, gen>
- DeutschSagan2006, *Congruences for Catalan and Motzkin numbers and related sequences,* J. Number Theory Vol. 117, Issue 1, Mar 2006, 191–215, jou>
- DoughertyFrenchSaderholmQian2011, *Hankel transforms of linear combinations of Catalan numbers,* J. Integer Seq. Vol. 14 (2011), Article 11.5.1, jis>
- Elezovic2014, *Asymptotic expansions of central binomial coefficients and Catalan numbers,* J. Integer Seq. Vol. 17 (2014), Article 14.2.1, jis>
- EuLiuYeh2008, *Catalan and Motzkin numbers modulo 4 and 8,* European J. Combin. Vol. 29, Issue 6, Aug 2008, 1449–1466, gen>
- FurlingerHofbauer1985, *q-Catalan numbers,* J. Combin.Theory Ser. A, **40,** 248-264 ( 1985 ), jou>
- Gould1977, *Generalization of a formula of Touchard for Catalan numbers,* J. Combin. Theory Ser. A, Vol. 23, Issue 3, Nov 1977, 351–353, jou>
- He2013a, *Parametric Catalan numbers and Catalan triangles,* Linear Algebra Appl. Vol. 438, Issue 3, Feb 2013, 1467–1484, gen>
- Hoggatt, Jr.Bicknell1976a, *Pascal, Catalan, and general sequence convolution arrays in a matrix,* Fibonacci Quart. 1976 (14,2): 135-143, fibqy>
- Hoggatt, Jr.Bicknell1976d, *Catalan and related sequences arising from inverses of Pascal's triangle matrices,* Fibonacci Quart. 1976 (14,5): 395-404, fibqy>
- IshikawaTagawaZeng2009, *A q-analogue of Catalan Hankel determinants,* RIMS Kôkyûroku Bessatsu B11 (2009), 19–41, nat>
- Lang2002, *On polynomials related to derivatives of the generating functions of Catalan numbers,* Fibonacci Quart. 2002 (40,4): 299-312, fibqy>
- LiuYeh2010, *Catalan numbers modulo 2^k,* J. Integer Seq. Vol. 13 (2010), Article 10.5.4, jis>
- MansourSun2009,  *Identities involving Narayana polynomials and Catalan numbers,* Discrete Math. Vol. 309, Issue 12, Jun 2009, 4079–4088, gen>
- MaysWojciechowski2000, *A determinant property of Catalan numbers,* Discrete Math.  Vol. 211, Issues 1–3, Jan 2000, 125–133, gen>
- Muntingh2012, *Implicit divided differences, little Schröder numbers, and Catalan numbers,* J. Integer Seq. Vol. 15 (2012), Article 12.6.5, jis>

- NkwantaTefera2013, *Curious relations and identities involving the Catalan generating function and numbers,* J. of Integer Seq. Vol. 16 (2013), Article 13.9.5, jis>
- PensonSixdeniers2001, *Integral representations of Catalan and related numbers,* J. Integer Seq. Vol. 4 (2001), Article 01.2.5, jis>
- Rogers1978, *Pascal triangles, Catalan numbers and renewal arrays,* Discrete Math. Vol. 22, Issue 3, 1978, 301–310, gen>
- Shapiro1976a, *A Catalan triangle,* Discrete Mafh. Vol. **14**, Issue 1, 1976, 83–90, gen>
- Sofo2009c, *Derivatives of Catalan related sums,* J. Inequal. Pure Appl. Math. Vol. 10, Issue: 3, Paper No. 69, 8 p, jou>
- SolomonSolomon2008, *A natural extension of Catalan numbers,* J. Integer Seq. Vol. 11 (2008), Article 08.3.5, jis>
- Sun Y.Ma2014a, *Some new binomial sums related to the Catalan triangle,* Electron. J. Combin. 21 (1) (2014), gen>
- Sun Z-W.2010b, *Binomial coefficients, Catalan numbers and Lucas quotients,* Sci. China Math. 53 (2010), no. 9, 2473–2488, nat>
- Yang S-l.2013, *Some inverse relations determined by Catalan matrices,* Int. J. Comb. Vol. 2013 (2013), Article ID 528584, 6 p, gen>
- Zhao L-L.PanSun Z-W.2010, *Some congruences for the second-order Catalan numbers,* Proc. Amer. Math. Soc. 138 (2010) , no. 1, 37–46, nat>

**Catalan generalized numbers**

- AbateWhitt2011, *Brownian Motion and the generalized Catalan numbers,* J. Integer Seq. Vol. 14 (2011), Article 11.2.6, jis>
- Barry2010a, *Generalized Catalan numbers, Hankel transforms and Somos-4 sequences,* J. Integer Seq. Vol. 13 (2010), Article 10.7.2, jis>
- ChamberlandFrench2007, *Generalized Catalan numbers and generalized Hankel transformations,* J. Integer Seq. Vol. 10 (2007), Article 07.1.1, jis>
- Hoggatt, Jr.Bicknell1976a, *Pascal, Catalan, and general sequence convolution arrays in a matrix,* Fibonacci Quart. 1976 (14,2): 135-143, fibqy>
- Kahkeshani2013, *A generalization of the Catalan numbers,* J. Integer Seq. Vol. 16 (2013), Article 13.6.8, jis>
- Krattenthaler2010, *Determinants of (generalised) Catalan numbers,* J. Statist. Plann. Inference Vol. 140, Issue 8, Aug 2010, 2260–2270  arXiv (10 Fev 2010), aXv>
- NkwantaTefera2013, *Curious relations and identities involving the Catalan generating function and numbers,* J. of Integer Seq. Vol. 16 (2013), Article 13.9.5, jis>
- PetkovicRajkovic2006, *Hankel transform of Narayana polynomials and generalized Catalan numbers,* Int. Conference PRIM 2006, gen>

- RajkovicPetkovićBarry2007, *The Hankel transform of the sum of consecutive generalized Catalan numbers,* Integral Transforms and Special Functions, Vol. 18, Issue 4, 2007, aXv>
- SteinWaterman1978, *On some sequences generalizing the Catalan and Motzkin numbers,* Discrete Math. Vol. 26, Issue 3, Jan 1979, 261-272, gen>
- Sury2009, *Generalized Catalan numbers: linear recursion and divisibility,* J. Integer Seq. Vol. 12 (2009), Article 09.7.5, jis>

## *binomial*

- Sun Z-W.2010b, *Binomial coefficients, Catalan numbers and Lucas quotients,* Sci. China Math. 53 (2010), no. 9, 2473–2488, nat>

## *Brownian motion, Brownian motion q-analogue*

- AbateWhitt2011, *Brownian Motion and the generalized Catalan numbers,* J. Integer Seq. Vol. 14 (2011), Article 11.2.6, jis>

## *central coefficients*

- Elezovic2014, *Asymptotic expansions of central binomial coefficients and Catalan numbers,* J. Integer Seq. Vol. 17 (2014), Article 14.2.1, jis>

## *Chebyshev (Tschebyscheff)*

- Cigler2013, *Some remarks about q-Chebyshev polynomials and q-Catalan numbers and related results,* arXiv (? 2013), aXv>
- NkwantaBarnes2012, *Two Catalan-type Riordan arrays and their connections to the Chebyshev polynomials of the first kind,* J. Integer Seq. Vol. 15 (2012), Article 12.3.3, jis>

## *combinatorial theory*

- BenjaminCameronQuinnYerger2010, *Catalan determinants - A combinatorial approach,* Congr. Numer. Proc. 12-th Conf. on Fib. nbs. and their Appl. Vol. 200 (2010), 169-177, gen>

## *convolution*

- Hoggatt, Jr.Bicknell1976a, *Pascal, Catalan, and general sequence convolution arrays in a matrix,* Fibonacci Quart. 1976 (14,2): 135-143, fibqy>

## *Fibonacci*

- CvetkovicRajkovicIvkovic2002, *Catalan numbers, the Hankel transform, and Fibonacci numbers,* J. Integer Seq. Vol. 5 (2002), Article 02.1.3, jis>

## *generating functions*

- Lang2002, *On polynomials related to derivatives of the generating functions of Catalan numbers,* Fibonacci Quart. 2002 (40,4): 299-312, fibqy>
- NkwantaTefera2013, *Curious relations and identities involving the Catalan generating function and numbers,* J. of Integer Seq. Vol. 16 (2013), Article 13.9.5, jis>

## Hankel

- AndrewsWimp2002, *Some q-orthogonal polynomials and related Hankel determinants,* Rocky Mountain J. Math. Vol. 32, No. 2, Summer 2002, nat>
- ChammamMarcellanSfaxi2012, *Orthogonal polynomials, Catalan numbers, and a general Hankel determinant evaluation,* Linear Algebra Appl Vol. 436, Issue 7, Apr 2012, 2105-2116, gen>
- DoughertyFrenchSaderholmQian2011, *Hankel transforms of linear combinations of Catalan numbers,* J. Integer Seq. Vol. 14 (2011), Article 11.5.1, jis>
- IshikawaTagawaZeng2009, *A q-analogue of Catalan Hankel determinants,* RIMS Kôkyûroku Bessatsu B11 (2009), 19–41, nat>
- PetkovicRajkovic2006, *Hankel transform of Narayana polynomials and generalized Catalan numbers,* Int. Conference PRIM 2006, gen>
- RajkovicPetkovićBarry2007, *The Hankel transform of the sum of consecutive generalized Catalan numbers,* Integral Transforms and Special Functions, Vol. 18, Issue 4, 2007, aXv>

## harmonic

- Boyadzhiev2012, *Series with central binomial coefficients, Catalan numbers, and harmonic numbers,* J. Integer Seq. Vol. 15 (2012), Article 12.1.7, jis>

## identities, inequalities

- DengYan2008, *Some identities on the Catalan, Motzkin and Schröder numbers,* Discrete Appl. Math. Vol. 156, Issue 14, Jul 2008, 2781–2789, gen>
- MansourSun2009, *Identities involving Narayana polynomials and Catalan numbers,* Discrete Math. Vol. 309, Issue 12, Jun 2009, 4079–4088, gen>
- NkwantaTefera2013, *Curious relations and identities involving the Catalan generating function and numbers,* J. of Integer Seq. Vol. 16 (2013), Article 13.9.5, jis>

## integer sequences

- Barry2005, *A Catalan transform and related transformations on integer sequences,* J. Integer Seq. Vol. 8 (2005), Article 05.4.4, jis>

## Lucas

- Sun Z-W.2010b, *Binomial coefficients, Catalan numbers and Lucas quotients,* Sci. China Math. 53 (2010), no. 9, 2473–2488, nat>

## moments

- ChenChu2009, *Moments on Catalan numbers,* J. Math. Anal. Appl. Vol. 349, Issue 2, 15 Jan 2009, 311–316, jou>

## Narayana

- PetkovicRajkovic2006, *Hankel transform of Narayana polynomials and generalized  Catalan numbers,* Int. Conference PRIM 2006, [gen>]

## *orthogonal (q-)polynomials*

- AndrewsWimp2002, *Some q-orthogonal polynomials and related Hankel determinants,* Rocky Mountain J. Math. Vol. 32, No. 2, Summer 2002, [nat>]
- ChammamMarcellanSfaxi2012, *Orthogonal polynomials, Catalan numbers, and a general Hankel determinant evaluation,* Linear Algebra Appl Vol. 436, Issue 7, Apr 2012, 2105-2116, [gen>]

## *Pascal*

- Rogers1978, *Pascal triangles, Catalan numbers and renewal arrays,* Discrete Math. Vol. 22, Issue 3, 1978, 301–310, [gen>]

## *renewal array, process*

- Rogers1978, *Pascal triangles, Catalan numbers and renewal arrays,* Discrete Math. Vol. 22, Issue 3, 1978, 301–310, [gen>]

## *Riordan arrays*

- NkwantaBarnes2012, *Two Catalan-type Riordan arrays and their connections to the Chebyshev polynomials of  the first kind,* J. Integer Seq. Vol. 15 (2012), Article 12.3.3, [jis>]

## *Schröder*

- DengYan2008, *Some identities on the Catalan, Motzkin and Schröder numbers,* Discrete Appl. Math. Vol. 156, Issue 14, Jul 2008, 2781–2789, [gen>]

## *succession rules*

- FerrariPinzani2005, *Catalan-like numbers and succession rules,* PU.M.A. Vol. 16 (2005), No. 3, 229-250, [gen>]

## *transforms*

- Barry2005, *A Catalan transform and related transformations on integer sequences,* J. Integer Seq. Vol. 8 (2005), Article 05.4.4, [jis>]
- PetkovicRajkovic2006, *Hankel transform of Narayana polynomials and generalized Catalan numbers,* Int. Conference PRIM 2006, [gen>]
- RajkovicPetkovićBarry2007, *The Hankel transform of the sum of consecutive generalized Catalan numbers,* Integral Transforms and Special Functions, Vol. 18, Issue 4, 2007, [aXv>]