# Adam Bobrowski

List of Publications by Year
in descending order

| 59 papers | 586 citations | 11 h-index 840776 | 17 g-index 888059 |
|-----------|---------------|-------------------|-------------------|
| 69 all docs | 69 docs citations | 69 times ranked | 188 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Asymptotic behavior of distributions of mRNA and protein levels in a model of stochastic gene expression. Journal of Mathematical Analysis and Applications, 2007, 333, 753-769. | 1.0 | 45 |
| 2 | From Diffusions on Graphs to Markov Chains via Asymptotic State Lumping. Annales Henri Poincare, 2012, 13, 1501-1510. | 1.7 | 28 |
| 3 | Degenerate convergence of semigroups. Semigroup Forum, 1994, 49, 303-327. | 0.6 | 22 |
| 4 | Degenerate Convergence of Semigroups Related to a Model of Stochastic Gene Expression. Semigroup Forum, 2006, 73, 345-366. | 0.6 | 18 |
| 5 | Generation of cosine families via Lord Kelvin's method of images. Journal of Evolution Equations, 2010, 10, 663-675. | 1.1 | 17 |
| 6 | From a PDE model to an ODE model of dynamics of synaptic depression. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 2313-2327. | 0.9 | 16 |
| 7 | Non-homogeneous infinite sites model under demographic change: mathematical description and asymptotic behavior of pairwise distributions. Mathematical Biosciences, 2002, 175, 83-115. | 1.9 | 15 |
| 8 | Lord Kelvin's method of images in semigroup theory. Semigroup Forum, 2010, 81, 435-445. | 0.6 | 15 |
| 9 | On moments-preserving cosine families and semigroups in C[0, 1]. Journal of Evolution Equations, 2013, 13, 715-735. | 1.1 | 15 |
| 10 | On the Yosida approximation and the Widder-Arendt representation theorem. Studia Mathematica, 1997, 124, 281-290. | 0.7 | 14 |
| 11 | On Limitations and Insufficiency of the Trotter-Kato Theorem. Semigroup Forum, 2007, 75, 317-336. | 0.6 | 13 |
| 12 | Asymptotic behavior of joint distributions of characteristics of a pair of randomly chosen individuals in discrete-time Fisher–Wright models with mutations and drift. Theoretical Population Biology, 2004, 66, 355-367. | 1.1 | 11 |
| 13 | On a semigroup generated by a convex combination of two Feller generators. Journal of Evolution Equations, 2007, 7, 555-565. | 1.1 | 11 |
| 14 | Interplay between degenerate convergence of semigroups and asymptotic analysis: a study of a singularly perturbed abstract telegraph system. Journal of Evolution Equations, 2009, 9, 293-314. | 1.1 | 11 |
| 15 | Splash of Solid Particles as a Stochastic Point Process. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2475-2490. | 2.8 | 11 |
| 16 | A semigroup representation and asymptotic behavior of certain statistics of the fisher-wright-moran coalescent. Handbook of Statistics, 2001, 19, 215-247. | 0.6 | 10 |
| 17 | Singular perturbations involving fast diffusion. Journal of Mathematical Analysis and Applications, 2015, 427, 1004-1026. | 1.0 | 10 |
| 18 | An averaging principle for fast diffusions in domains separated by semi-permeable membranes. Mathematical Models and Methods in Applied Sciences, 2017, 27, 663-706. | 3.3 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A note on convergence of semigroups. Annales Polonici Mathematici, 1998, 69, 107-127. | 0.5 | 10 |
| 20 | Isolated points of some sets of bounded cosine families, bounded semigroups, and bounded groups on a Banach space. Studia Mathematica, 2013, 217, 219-241. | 0.7 | 10 |
| 21 | A random evolution related to a Fisher–Wright–Moran model with mutation, recombination and drift. Mathematical Methods in the Applied Sciences, 2003, 26, 1587-1599. | 2.3 | 9 |
| 22 | Cosine families and semigroups really differ. Journal of Evolution Equations, 2013, 13, 897-916. | 1.1 | 9 |
| 23 | Irregular convergence of mild solutions of semilinear equations. Journal of Mathematical Analysis and Applications, 2019, 472, 1401-1419. | 1.0 | 9 |
| 24 | Asymptotic behavior of a Moran model with mutations, drift and recombination among multiple loci. Journal of Mathematical Biology, 2010, 61, 455-473. | 1.9 | 8 |
| 25 | Generalized telegraph equation and the Sova-Kurtz version of the Trotter-Kato theorem. Annales Polonici Mathematici, 1996, 64, 37-45. | 0.5 | 8 |
| 26 | On close-to-scalar one-parameter cosine families. Journal of Mathematical Analysis and Applications, 2015, 429, 383-394. | 1.0 | 7 |
| 27 | A semigroup related to a convex combination of boundary conditions obtained as a result of averaging other semigroups. Journal of Evolution Equations, 2015, 15, 223-237. | 1.1 | 7 |
| 28 | On the generation of non-continuous semigroups. Semigroup Forum, 1997, 54, 237-252. | 0.6 | 6 |
| 29 | ASYMPTOTIC BEHAVIOUR OF AN OPERATOR EXPONENTIAL RELATED TO BRANCHING RANDOM WALK MODELS OF DNA REPEATS. Journal of Biological Systems, 1999, 07, 33-43. | 1.4 | 6 |
| 30 | Robin-type boundary conditions in transition from reaction-diffusion equations in 3D domains to equations in 2D domains. Journal of Differential Equations, 2019, 268, 239-271. | 2.2 | 6 |
| 31 | Boundary Conditions in Evolutionary Equations in Biology. Lecture Notes in Mathematics, 2015, , 47-92. | 0.2 | 6 |
| 32 | Quasi-stationary distributions of a pair of Markov chains related to time evolution of a DNA locus. Advances in Applied Probability, 2004, 36, 57-77. | 0.7 | 5 |
| 33 | Quasi-stationary distributions of a pair of Markov chains related to time evolution of a DNA locus. Advances in Applied Probability, 2004, 36, 57-77. | 0.7 | 5 |
| 34 | Semigroups generated by convex combinations of several Feller generators in models of mathematical biology. Studia Mathematica, 2008, 189, 287-300. | 0.7 | 5 |
| 35 | Semigroup-theoretic approach to diffusion in thin layers separated by semi-permeable membranes. Journal of Evolution Equations, 2021, 21, 1019-1057. | 1.1 | 5 |
| 36 | A general theorem on generation of moments-preserving cosine families by Laplace operators in C[0,1]. Semigroup Forum, 2014, 88, 689-701. | 0.6 | 4 |

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|---|---------|----|-----------|
| 37 | Emergence of Freidlin–Wentzell's transmission conditions as a result of a singular perturbation of a semigroup. Semigroup Forum, 2016, 92, 1-22. | 0.6 | 4 |
| 38 | Families of Operators Describing Diffusion Through Permeable Membranes. Operator Theory: Advances and Applications, 2015, , 87-105. | 0.2 | 4 |
| 39 | On Hille-type approximation of degenerate semigroups of operators. Linear Algebra and Its Applications, 2016, 511, 31-53. | 0.9 | 3 |
| 40 | Modeling Diffusion in Thin 2D Layers Separated by a Semipermeable Membrane. SIAM Journal on Mathematical Analysis, 2020, 52, 3222-3251. | 1.9 | 3 |
| 41 | Diffusion approximation for a simple kinetic model with asymmetric interface. Journal of Evolution Equations, 2022, 22, . | 1.1 | 3 |
| 42 | Inversion of the Laplace Transform and Generation of Abel Summable Semigroups. Journal of Functional Analysis, 2001, 186, 1-24. | 1.4 | 2 |
| 43 | Non-homogeneous infinitely many sites discrete-time model with exact coalescent. Mathematical Methods in the Applied Sciences, 2010, 33, 713-732. | 2.3 | 2 |
| 44 | On shape preserving semigroups. Archiv Der Mathematik, 2012, 98, 37-48. | 0.5 | 2 |
| 45 | On a somewhat forgotten condition of Hasegawa and on Blackwell's example. Archiv Der Mathematik, 2015, 104, 237-246. | 0.5 | 2 |
| 46 | Two theorems on singularly perturbed semigroups with applications to models of applied mathematics. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 735-757. | 0.9 | 2 |
| 47 | On a functional equation with derivative and symmetrization. Annales Polonici Mathematici, 2006, 89, 13-24. | 0.5 | 2 |
| 48 | Functionals-preserving cosine families generated by Laplace operators in C[0,1]. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 1877-1895. | 0.9 | 2 |
| 49 | Asymptotic behavior of a Feller evolution family involved in the Fisher-Wright model. Advances in Applied Probability, 2008, 40, 734-758. | 0.7 | 1 |
| 50 | Time to the MRCA of a sample in a Wright–Fisher model with variable population size. Theoretical Population Biology, 2011, 80, 265-271. | 1.1 | 1 |
| 51 | On Wallen-type formulae for integrated semigroups and sine functions. Archiv Der Mathematik, 2017, 108, 395-404. | 0.5 | 1 |
| 52 | A Note on Integrability of the Norm of a Perturbed Semigroup. Results in Mathematics, 2020, 75, 1. | 0.8 | 1 |
| 53 | Asymptotic behavior of a Feller evolution family involved in the Fisher-Wright model. Advances in Applied Probability, 2008, 40, 734-758. | 0.7 | 1 |
| 54 | Correction to "Degenerate convergence of semigroups related to a model of stochastic gene expression" Semigroup Forum, 2008, 77, 520-521. | 0.6 | 0 |

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|---|---------|-----|-----------|
| 55 | A note on generalized Euler's formula. Journal of Mathematical Analysis and Applications, 2019, 473, 1155-1164. | 1.0 | 0 |
| 56 | On convergence and asymptotic behaviour of semigroups of operators. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190613. | 3.4 | 0 |
| 57 | From convergence of operator semigroups to gene expression, and back again. , 0, , . | | 0 |
| 58 | Notes on Jan Maria Kisynski's Life and Scientific Work. Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software, 2018, 11, 123-133. | 0.4 | 0 |
| 59 | Lord Kelvin and Andrey Andreyevich Markov in a Queue with Single Server. Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software, 2018, 11, 29-43. | 0.4 | 0 |