

# Viorel Barbu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/11153258/viorel-barbu-publications-by-year.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111  
papers

3,142  
citations

27  
h-index

53  
g-index

113  
ext. papers

3,538  
ext. citations

1.4  
avg, IF

5.9  
L-index

#	Paper	IF	Citations
111	Solutions for nonlinear Fokker-Planck equations with measures as initial data and McKean-Vlasov equations. <i>Journal of Functional Analysis</i> , <b>2021</b> , 280, 108926	1.4	10
110	Uniqueness for nonlinear Fokker-Planck equations and weak uniqueness for McKean-Vlasov SDEs. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , <b>2021</b> , 9, 702-713	0.9	3
109	From nonlinear Fokker-Planck equations to solutions of distribution dependent SDE. <i>Annals of Probability</i> , <b>2020</b> , 48,	1.9	27
108	Optimal Control of Nonlinear Stochastic Differential Equations on Hilbert Spaces. <i>SIAM Journal on Control and Optimization</i> , <b>2020</b> , 58, 2383-2410	1.9	3
107	A variational approach to nonlinear stochastic differential equations with linear multiplicative noise. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2019</b> , 25, 71	1	
106	Variational solutions to nonlinear stochastic differential equations in Hilbert spaces. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , <b>2018</b> , 6, 500-524	0.9	1
105	Controllability and Stabilization of Parabolic Equations. <i>Progress in Nonlinear Differential Equations and Their Application</i> , <b>2018</b> ,	1	6
104	Exact Controllability of Parabolic Equations. <i>Progress in Nonlinear Differential Equations and Their Application</i> , <b>2018</b> , 43-101	1	
103	Feedback Stabilization of Semilinear Parabolic Equations. <i>Progress in Nonlinear Differential Equations and Their Application</i> , <b>2018</b> , 129-195	1	
102	Stochastic Nonlinear Parabolic Equations with Stratonovich Gradient Noise. <i>Applied Mathematics and Optimization</i> , <b>2018</b> , 78, 361-377	1.5	1
101	Nonlinear Fokker-Planck equations driven by Gaussian linear multiplicative noise. <i>Journal of Differential Equations</i> , <b>2018</b> , 265, 4993-5030	2.1	6
100	Probabilistic Representation for Solutions to Nonlinear Fokker-Planck Equations. <i>SIAM Journal on Mathematical Analysis</i> , <b>2018</b> , 50, 4246-4260	1.7	21
99	Boundary Stabilization of Navier-Stokes Equations. <i>Progress in Nonlinear Differential Equations and Their Application</i> , <b>2018</b> , 197-218	1	
98	Internal Controllability of Parabolic Equations with Inputs in Coefficients. <i>Progress in Nonlinear Differential Equations and Their Application</i> , <b>2018</b> , 103-127	1	
97	The Steepest Descent Algorithm in Wasserstein Metric for the Sandpile Model of Self-Organized Criticality. <i>SIAM Journal on Control and Optimization</i> , <b>2017</b> , 55, 413-428	1.9	1
96	A splitting algorithm for stochastic partial differential equations driven by linear multiplicative noise. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , <b>2017</b> , 5, 457-471	0.9	2
95	Stochastic nonlinear Schrödinger equations: No blow-up in the non-conservative case. <i>Journal of Differential Equations</i> , <b>2017</b> , 263, 7919-7940	2.1	9

94	Global solutions to random 3D vorticity equations for small initial data. <i>Journal of Differential Equations</i> , <b>2017</b> , 263, 5395-5411	2.1	2
93	The stochastic logarithmic Schrödinger equation. <i>Journal Des Mathematiques Pures Et Appliquees</i> , <b>2017</b> , 107, 123-149	1.7	5
92	Doubly probabilistic representation for the stochastic porous media type equation. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , <b>2017</b> , 53,	1.3	3
91	Variational Approach to Stochastic Porous Media Equations. <i>Lecture Notes in Mathematics</i> , <b>2016</b> , 95-106	0.4	
90	Optimal control of stochastic FitzHugh-Nagumo equation. <i>International Journal of Control</i> , <b>2016</b> , 89, 746-756	1.5	20
89	The Stochastic Porous Media Equations in $(\mathbb{R}^d)$ . <i>Lecture Notes in Mathematics</i> , <b>2016</b> , 133-165	0.4	
88	Equations with Maximal Monotone Nonlinearities. <i>Lecture Notes in Mathematics</i> , <b>2016</b> , 49-93	0.4	
87	Transition Semigroup. <i>Lecture Notes in Mathematics</i> , <b>2016</b> , 167-195	0.4	
86	Stochastic nonlinear Schrödinger equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2016</b> , 136, 168-194	1.3	25
85	Backward uniqueness of stochastic parabolic like equations driven by Gaussian multiplicative noise. <i>Stochastic Processes and Their Applications</i> , <b>2016</b> , 126, 2163-2179	1.1	1
84	Generalized solutions to nonlinear Fokker-Planck equations. <i>Journal of Differential Equations</i> , <b>2016</b> , 261, 2446-2471	2.1	9
83	Stochastic Porous Media Equations. <i>Lecture Notes in Mathematics</i> , <b>2016</b> ,	0.4	15
82	Stochastic parabolic equations with nonlinear dynamical boundary conditions. <i>Journal of Mathematical Analysis and Applications</i> , <b>2015</b> , 427, 484-498	1.1	3
81	Stochastic porous media equations in $\mathbb{R}^d$ . <i>Journal Des Mathematiques Pures Et Appliquees</i> , <b>2015</b> , 103, 1024-1052	1.7	14
80	An operatorial approach to stochastic partial differential equations driven by linear multiplicative noise. <i>Journal of the European Mathematical Society</i> , <b>2015</b> , 17, 1789-1815	1.8	35
79	A Stochastic Heat Equation with Nonlinear Dissipation on the Boundary. <i>Journal of Optimization Theory and Applications</i> , <b>2015</b> , 165, 317-343	1.6	1
78	Nonlinear parabolic flows with dynamic flux on the boundary. <i>Journal of Differential Equations</i> , <b>2015</b> , 258, 2160-2195	2.1	5
77	Stochastic Nonlinear Schrödinger Equations with Linear Multiplicative Noise: Rescaling Approach. <i>Journal of Nonlinear Science</i> , <b>2014</b> , 24, 383-409	2.8	30

76	Existence and Asymptotic Behavior for Hereditary Stochastic Evolution Equations. <i>Applied Mathematics and Optimization</i> , <b>2014</b> , 69, 273-314	1.5	13
75	Exact null internal controllability for the heat equation on unbounded convex domains. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2014</b> , 20, 222-235	1	9
74	Stochastic Variational Inequalities and Applications to the Total Variation Flow Perturbed by Linear Multiplicative Noise. <i>Archive for Rational Mechanics and Analysis</i> , <b>2013</b> , 209, 797-834	2.3	29
73	The variational approach to Hamilton-Jacobi equations driven by a Gaussian noise. <i>Journal of Differential Equations</i> , <b>2013</b> , 255, 3832-3847	2.1	
72	Boundary Stabilization of Equilibrium Solutions to Parabolic Equations. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 2416-2420	5.9	29
71	Existence and convergence results for infinite dimensional nonlinear stochastic equations with multiplicative noise. <i>Stochastic Processes and Their Applications</i> , <b>2013</b> , 123, 934-951	1.1	10
70	The internal stabilization of the Stokes-Darcy equation by feedback point controllers. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 447-450	2.4	
69	The finite speed of propagation for solutions to nonlinear stochastic wave equations driven by multiplicative noise. <i>Journal of Differential Equations</i> , <b>2013</b> , 255, 560-571	2.1	2
68	Note on the internal stabilization of stochastic parabolic equations with linearly multiplicative Gaussian noise. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2013</b> , 19, 1055-1063	1	5
67	Self-organized criticality of cellular automata model; absorption in finite-time of supercritical region into the critical one. <i>Mathematical Methods in the Applied Sciences</i> , <b>2013</b> , 36, 1726-1733	2.3	10
66	A PDE approach to image restoration problem with observation on a meager domain. <i>Nonlinear Analysis: Real World Applications</i> , <b>2012</b> , 13, 1206-1215	2.1	10
65	Finite time extinction of solutions to fast diffusion equations driven by linear multiplicative noise. <i>Journal of Mathematical Analysis and Applications</i> , <b>2012</b> , 389, 147-164	1.1	15
64	Optimal Control Approach to Nonlinear Diffusion Equations Driven by Wiener Noise. <i>Journal of Optimization Theory and Applications</i> , <b>2012</b> , 153, 1-26	1.6	17
63	Stabilization of Navier-Stokes Equations by Oblique Boundary Feedback Controllers. <i>SIAM Journal on Control and Optimization</i> , <b>2012</b> , 50, 2288-2307	1.9	23
62	Convexity and Optimization in Banach Spaces. <i>Springer Monographs in Mathematics</i> , <b>2012</b> ,	1.3	103
61	Stochastic Porous Media Equations and Self-Organized Criticality: Convergence to the Critical State in all Dimensions. <i>Communications in Mathematical Physics</i> , <b>2012</b> , 311, 539-555	2	15
60	Internal stabilization of Navier-Stokes equation with exact controllability on spaces with finite codimension. <i>Evolution Equations and Control Theory</i> , <b>2012</b> , 1, 1-16	2	1
59	Internal Stabilization by Noise of the Navier-Stokes Equation. <i>SIAM Journal on Control and Optimization</i> , <b>2011</b> , 49, 1-20	1.9	8

58	Internal Exponential Stabilization to a Nonstationary Solution for 3D Navier-Stokes Equations. <i>SIAM Journal on Control and Optimization</i> , <b>2011</b> , 49, 1454-1478	1.9	27
57	On a random scaled porous media equation. <i>Journal of Differential Equations</i> , <b>2011</b> , 251, 2494-2514	2.1	24
56	A variational approach to stochastic nonlinear parabolic problems. <i>Journal of Mathematical Analysis and Applications</i> , <b>2011</b> , 384, 2-15	1.1	16
55	Probabilistic representation for solutions of an irregular porous media type equation: the degenerate case. <i>Probability Theory and Related Fields</i> , <b>2011</b> , 151, 1-43	1.4	18
54	The internal stabilization by noise of the linearized Navier-Stokes equation. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2011</b> , 17, 117-130	1	4
53	Stabilization of Navier-Stokes Flows. <i>Communications and Control Engineering</i> , <b>2011</b> ,	0.6	31
52	Existence Theory of Nonlinear Dissipative Dynamics. <i>Springer Monographs in Mathematics</i> , <b>2011</b> , 193-270	1.3	
51	Stabilization of Abstract Parabolic Systems. <i>Communications and Control Engineering</i> , <b>2011</b> , 25-85	0.6	
50	Stabilization of Navier-Stokes Flows. <i>Communications and Control Engineering</i> , <b>2011</b> , 87-175	0.6	3
49	Nonlinear Differential Equations of Monotone Types in Banach Spaces. <i>Springer Monographs in Mathematics</i> , <b>2010</b> ,	1.3	333
48	Exponential stabilization of the linearized Navier-Stokes equation by pointwise feedback noise controllers. <i>Automatica</i> , <b>2010</b> , 46, 2022-2027	5.7	5
47	Invariant measures and the Kolmogorov equation for the stochastic fast diffusion equation. <i>Stochastic Processes and Their Applications</i> , <b>2010</b> , 120, 1247-1266	1.1	6
46	Self-organized criticality and convergence to equilibrium of solutions to nonlinear diffusion equations. <i>Annual Reviews in Control</i> , <b>2010</b> , 34, 52-61	10.3	13
45	Stochastic Porous Media Equations and Self-Organized Criticality. <i>Communications in Mathematical Physics</i> , <b>2009</b> , 285, 901-923	2	52
44	A PDE variational approach to image denoising and restoration. <i>Nonlinear Analysis: Real World Applications</i> , <b>2009</b> , 10, 1351-1361	2.1	46
43	Finite time extinction for solutions to fast diffusion stochastic porous media equations. <i>Comptes Rendus Mathématique</i> , <b>2009</b> , 347, 81-84	0.4	15
42	Stochastic Nonlinear Diffusion Equations with Singular Diffusivity. <i>SIAM Journal on Mathematical Analysis</i> , <b>2009</b> , 41, 1106-1120	1.7	18
41	Existence of strong solutions for stochastic porous media equation under general monotonicity conditions. <i>Annals of Probability</i> , <b>2009</b> , 37,	1.9	58

40	Smoothness of weak solutions to a nonlinear fluid-structure interaction model. <i>Indiana University Mathematics Journal</i> , <b>2008</b> , 57, 1173-1208	0.6	66
39	Existence and uniqueness of nonnegative solutions to the stochastic porous media equation. <i>Indiana University Mathematics Journal</i> , <b>2008</b> , 57, 187-212	0.6	46
38	The Kolmogorov equation for a 2D-Navier-Stokes stochastic flow in a channel. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2008</b> , 69, 940-949	1.3	6
37	Blow-up of generalized solutions to wave equations with nonlinear degenerate damping and source terms. <i>Indiana University Mathematics Journal</i> , <b>2007</b> , 56, 995-1022	0.6	30
36	Stochastic wave equations with dissipative damping. <i>Stochastic Processes and Their Applications</i> , <b>2007</b> , 117, 1001-1013	1.1	20
35	Stabilization of a plane channel flow by wall normal controllers. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2007</b> , 67, 2573-2588	1.3	11
34	Existence and Ergodicity for the Two-Dimensional Stochastic Magneto-Hydrodynamics Equations. <i>Applied Mathematics and Optimization</i> , <b>2007</b> , 56, 145-168	1.5	44
33	Local Exponential Stabilization Strategies of the Navier-Stokes Equations, $d = 2, 3$ , via Feedback Stabilization of its Linearization. <i>International Series of Numerical Mathematics</i> , <b>2007</b> , 13-46	0.4	8
32	Ergodicity for Nonlinear Stochastic Equations in Variational Formulation. <i>Applied Mathematics and Optimization</i> , <b>2006</b> , 53, 121-139	1.5	14
31	The stochastic obstacle problem for the harmonic oscillator with damping. <i>Journal of Functional Analysis</i> , <b>2006</b> , 235, 430-448	1.4	10
30	Weak solutions to the stochastic porous media equation via Kolmogorov equations: The degenerate case. <i>Journal of Functional Analysis</i> , <b>2006</b> , 237, 54-75	1.4	17
29	Abstract settings for tangential boundary stabilization of Navier-Stokes equations by high- and low-gain feedback controllers. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2006</b> , 64, 2704-2746	1.3	71
28	Tangential boundary stabilization of Navier-Stokes equations. <i>Memoirs of the American Mathematical Society</i> , <b>2006</b> , 181, 0-0	1.5	34
27	On nonlinear wave equations with degenerate damping and source terms. <i>Transactions of the American Mathematical Society</i> , <b>2005</b> , 357, 2571-2611	1	63
26	Internal stabilization of Navier-Stokes equations with finite-dimensional controllers. <i>Indiana University Mathematics Journal</i> , <b>2004</b> , 53, 1443-1494	0.6	94
25	Internal stabilizability of the Navier-Stokes equations. <i>Systems and Control Letters</i> , <b>2003</b> , 48, 161-167	2.4	16
24	Feedback stabilization of Navier-Stokes equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2003</b> , 9, 197-205	1	54
23	The Stochastic Nonlinear Damped Wave Equation. <i>Applied Mathematics and Optimization</i> , <b>2002</b> , 46, 125-141	1	25

22	The two phase stochastic Stefan problem. <i>Probability Theory and Related Fields</i> , <b>2002</b> , 124, 544-560	1.4	19
21	Local controllability of the phase field system. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2002</b> , 50, 363-372	1.3	24
20	Null controllability of nonlinear convective heat equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2000</b> , 5, 157-173	1	25
19	Optimal control of Navier-Stokes equations with periodic inputs. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>1998</b> , 31, 15-31	1.3	32
18	The time optimal control of Navier-Stokes equations. <i>Systems and Control Letters</i> , <b>1997</b> , 30, 93-100	2.4	46
17	Existence and asymptotic results for a system of integro-partial differential equations. <i>Nonlinear Differential Equations and Applications</i> , <b>1996</b> , 3, 1-18	0.8	20
16	Optimal feedback controllers for periodic convex control problems. <i>Nonlinear Differential Equations and Applications</i> , <b>1996</b> , 3, 35-54	0.8	2
15	Mathematical Methods in Optimization of Differential Systems <b>1994</b> ,		56
14	A variational approach to a free boundary problem arising in electrophotography. <i>Numerical Functional Analysis and Optimization</i> , <b>1993</b> , 14, 1-14	1	2
13	Approximating optimal controls for elliptic obstacle problem by monotone iteration schemes. <i>Numerical Functional Analysis and Optimization</i> , <b>1991</b> , 12, 429-442	1	7
12	The time-optimal control problem for parabolic variational inequalities. <i>Applied Mathematics and Optimization</i> , <b>1984</b> , 11, 1-22	1.5	16
11	Boundary Control Problems with Nonlinear State Equation. <i>SIAM Journal on Control and Optimization</i> , <b>1982</b> , 20, 125-143	1.9	25
10	Necessary conditions for multiple integral problem in the calculus of variations. <i>Mathematische Annalen</i> , <b>1982</b> , 260, 175-189	1	3
9	Necessary Conditions for Distributed Control Problems Governed by Parabolic Variational Inequalities. <i>SIAM Journal on Control and Optimization</i> , <b>1981</b> , 19, 64-86	1.9	45
8	Necessary conditions for nonconvex distributed control problems governed by elliptic variational inequalities. <i>Journal of Mathematical Analysis and Applications</i> , <b>1981</b> , 80, 566-597	1.1	38
7	Existence for Nonlinear Volterra Equations in Hilbert Spaces. <i>SIAM Journal on Mathematical Analysis</i> , <b>1979</b> , 10, 552-569	1.7	24
6	On convex control problems on infinite intervals. <i>Journal of Mathematical Analysis and Applications</i> , <b>1978</b> , 65, 687-702	1.1	8
5	On a Nonlinear Volterra Integral Equation on a Hilbert Space. <i>SIAM Journal on Mathematical Analysis</i> , <b>1977</b> , 8, 346-355	1.7	10

- 4 Nonlinear semigroups and differential equations in Banach spaces **1976**, 786
- 3 Existence theorems for a class of two point boundary problems. *Journal of Differential Equations*, **1975**, 17, 236-257 2.1 26
- 2 Nonlinear Volterra Equations in a Hilbert Space. *SIAM Journal on Mathematical Analysis*, **1975**, 6, 728-741.7 42
- 1 Asymptotic behavior of linear integrodifferential systems. *Transactions of the American Mathematical Society*, **1972**, 173, 277-277 1 31