Carlos Lizama

List of Publications by Year
in descending order

137 papers	2,296 citations	236612 25 h-index	288905 40 g-index
138 all docs	138 docs citations	138 times ranked	570 citing authors

#	Article	IF	Citations
1	Almost automorphic mild solutions to fractional differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 3692-3705.	0.6	158
2	Regularized Solutions for Abstract Volterra Equations. Journal of Mathematical Analysis and Applications, 2000, 243, 278-292.	0.5	144
3	The Poisson distribution, abstract fractional difference equations, and stability. Proceedings of the American Mathematical Society, 2017, 145, 3809-3827.	0.4	86
4	Almost automorphic solutions to a class of semilinear fractional differential equations. Applied Mathematics Letters, 2008, 21, 1315-1319.	1.5	79
5	Bounded Mild Solutions for Semilinear Integro Differential Equations in Banach Spaces. Integral Equations and Operator Theory, 2010, 68, 207-227.	0.4	64
6	Almost automorphic solutions of dynamic equations on time scales. Journal of Functional Analysis, 2013, 265, 2267-2311.	0.7	60
7	Fourier Multipliers and Integro–Differential Equations in Banach Spaces. Journal of the London Mathematical Society, 2004, 69, 737-750.	0.5	52
8	A transference principle for nonlocal operators using a convolutional approach: fractional monotonicity and convexity. Israel Journal of Mathematics, 2020, 236, 533-589.	0.4	52
9	On approximation and representation of K-regularized resolvent families. Integral Equations and Operator Theory, 2001, 41, 223-229.	0.4	48
10	ON PERTURBATION OF K-REGULARIZED RESOLVENT FAMILIES. Taiwanese Journal of Mathematics, 2003, 7, 217.	0.2	43
11	Periodic solutions of second order differential equations in Banach spaces. Mathematische Zeitschrift, 2006, 253, 489-514.	0.4	43
12	Periodic solutions of degenerate differential equations in vector-valued function spaces. Studia Mathematica, 2011, 202, 49-63.	0.4	42
13	lp-maximal regularity for fractional difference equations on UMD spaces. Mathematische Nachrichten, 2015, 288, 2079-2092.	0.4	39
14	Hölder continuous solutions for integro-differential equations and maximal regularity. Journal of Differential Equations, 2006, 230, 634-660.	1.1	38
15	An operator theoretical approach to a class of fractional order differential equations. Applied Mathematics Letters, 2011, 24, 184-190.	1.5	38
16	Compact almost automorphic solutions to integral equations with infinite delay. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 6029-6037.	0.6	37
17	Mild solutions for abstract fractional differential equations. Applicable Analysis, 2013, 92, 1731-1754.	0.6	35
18	Almost automorphic solutions of non-autonomous difference equations. Journal of Mathematical Analysis and Applications, 2013, 407, 339-349.	0.5	34

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19	Fourier multipliers and periodic solutions of delay equations in Banach spaces. Journal of Mathematical Analysis and Applications, 2006, 324, 921-933.	0.5	33
20	A characterization of periodic solutions for time-fractional differential equations in <i>UMD</i> spaces and applications. Mathematische Nachrichten, 2011, 284, 494-506.	0.4	33
21	S -asymptotically Ï‰-periodic solutions for semilinear Volterra equations. Mathematical Methods in the Applied Sciences, 2010, 33, 1628-1636.	1.2	32
22	Maximal regularity for degenerate differential equations with infinite delay in periodic vector-valued function spaces. Proceedings of the Edinburgh Mathematical Society, 2013, 56, 853-871.	0.2	30
23	Rates of approximation and ergodic limits of regularized operator families. Journal of Approximation Theory, 2003, 122, 42-61.	0.5	27
24	Periodic solutions of fractional differential equations with delay. Journal of Evolution Equations, 2011, 11, 57-70.	0.6	27
25	Almost automorphic mild solutions to fractional partial difference-differential equations. Applicable Analysis, 2016, 95, 1347-1369.	0.6	26
26	Almost Automorphic Solutions of Difference Equations. Advances in Difference Equations, 2009, 2009, 1-15.	3.5	23
27	Maximal regularity in l spaces for discrete time fractional shifted equations. Journal of Differential Equations, 2017, 263, 3175-3196.	1.1	23
28	On the Convergence and Approximation of Integrated Semigroups. Journal of Mathematical Analysis and Applications, 1994, 181, 89-103.	0.5	22
29	Periodic solutions of integro-differential equations in vector-valued function spaces. Journal of Differential Equations, 2009, 246, 1007-1037.	1.1	22
30	Uniform continuity and compactness for resolvent families of operators. Acta Applicandae Mathematicae, 1995, 38, 131-138.	0.5	21
31	Well posedness for semidiscrete fractional Cauchy problems with finite delay. Journal of Computational and Applied Mathematics, 2018, 339, 356-366.	1.1	21
32	Application of the fractional Fourier transform to image reconstruction in MRI. Magnetic Resonance in Medicine, 2012, 68, 17-29.	1.9	20
33	A connection between almost periodic functions defined on timescales and â„• Applicable Analysis, 2014, 93, 2547-2558.	0.6	20
34	On multiplicative perturbation of integral resolvent families. Journal of Mathematical Analysis and Applications, 2007, 327, 1335-1359.	0.5	19
35	Almost automorphic solutions to integral equations onÂtheÂline. Semigroup Forum, 2009, 79, 461-472.	0.3	19
36	Existence of asymptotically almost periodic solutions for damped wave equations. Journal of Mathematical Analysis and Applications, 2011, 382, 761-771.	0.5	19

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37	Spectral Criteria for Solvability of Boundary Value Problems and Positivity of Solutions of Time-Fractional Differential Equations. Abstract and Applied Analysis, 2013, 2013, 1-11.	0.3	19
38	On the compactness of fractional resolvent operator functions. Semigroup Forum, 2016, 93, 363-374.	0.3	19
39	ell_{p} -maximal regularity for a class of fractional difference equations on UMD spaces: The case $1lt alphaleq2$. Banach Journal of Mathematical Analysis, 2017, 11, 188-206.	0.4	19
40	On duality and spectral properties of (a, k)-regularized resolvents. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2009, 139, 505-517.	0.8	17
41	On a connection between powers of operators and fractional Cauchy problems. Journal of Evolution Equations, 2012, 12, 245-265.	0.6	17
42	Well-posedness for degenerate third order equations with delay and applications to inverse problems. Israel Journal of Mathematics, 2019, 229, 219-254.	0.4	17
43	Maximal regularity of discrete second order Cauchy problems in Banach spaces. Journal of Difference Equations and Applications, 2007, 13, 1129-1138.	0.7	16
44	Bounded solutions to a class of semilinear integro-differential equations in Banach spaces. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 3397-3406.	0.6	16
45	Spectral properties of cosine operator functions. Aequationes Mathematicae, 1988, 36, 80-98.	0.4	15
46	Semilinear Evolution Equations of Second Order via Maximal Regularity. Advances in Difference Equations, 2008, 2008, 316207.	3.5	15
47	Strong solutions to stochastic Volterra equations. Journal of Mathematical Analysis and Applications, 2009, 349, 301-310.	0.5	15
48	On a connection between the discrete fractional Laplacian and superdiffusion. Applied Mathematics Letters, 2015, 49, 119-125.	1.5	15
49	On the existence of almost automorphic solutions of Volterra difference equations. Journal of Difference Equations and Applications, 2012, 18, 1931-1946.	0.7	14
50	On a Functional Equation Associated with (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 232 Td (xmlns:mml="http://www.w3.org/1 Resolvent Families. Abstract and Applied Analysis, 2012, 2012, 1-23.	0.3	14
51	Existence of Mild Solutions for a Semilinear Integrodifferential Equation with Nonlocal Initial Conditions. Abstract and Applied Analysis, 2012, 2012, 1-15.	0.3	14
52	Weighted pseudo almost automorphic mild solutions for two-term fractional order differential equations. Applied Mathematics and Computation, 2015, 271, 154-167.	1.4	14
53	CesÃ ro sums and algebra homomorphisms of bounded operators. Israel Journal of Mathematics, 2016, 216, 471-505.	0.4	14
54	Regularity of solutions for a third order differential equation in Hilbert spaces. Applied Mathematics and Computation, 2011, 217, 8522-8533.	1.4	13

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55	Regularity of mild solutions for a class of fractional order differential equations. Applied Mathematics and Computation, 2013, 224, 803-816.	1.4	13
56	On Volterra equations associated with a linear operator. Proceedings of the American Mathematical Society, 1993, 118, 1159-1166.	0.4	12
57	Weighted pseudo antiperiodic solutions for fractional integro-differential equations in Banach spaces. Applied Mathematics and Computation, 2015, 259, 164-172.	1.4	12
58	Weighted bounded solutions for a class of nonlinear fractional equations.. Fractional Calculus and Applied Analysis, 2016, 19, 1010-1030.	1.2	12
59	Maximal regularity of delay equations in Banach spaces. Studia Mathematica, 2006, 175, 91-102.	0.4	12
60	Well Posedness for a Class of Flexible Structure in HÃ¶lder Spaces. Mathematical Problems in Engineering, 2009, 2009, 1-13.	0.6	11
61	Linear dynamics of semigroups generated by differential operators. Open Mathematics, 2017, 15, 745-767.	0.5	11
62	Lebesgue regularity for differential difference equations with fractional damping. Mathematical Methods in the Applied Sciences, 2018, 41, 2535-2545.	1.2	11
63	Editorial: Modern Fractional Dynamic Systems and Applications, MFDSA 2017. Journal of Computational and Applied Mathematics, 2018, 339, 1-2.	1.1	11
64	Estimation of the light field inside photosynthetic microorganism cultures through Mittag-Leffler functions at depleted light conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 23-26.	1.1	11
65	The Cauchy problem for discrete time fractional evolution equations. Journal of Computational and Applied Mathematics, 2020, 370, 112683.	1.1	11
66	Algebra homomorphisms defined via convoluted semigroups and cosine functions. Journal of Functional Analysis, 2009, 257, 3454-3487.	0.7	10
67	Semilinear evolution equations on discrete time and maximal regularity. Journal of Mathematical Analysis and Applications, 2010, 361, 234-245.	0.5	10
68	Fractional relaxation equations on Banach spaces. Applied Mathematics Letters, 2010, 23, 137-142.	1.5	10
69	Attractivity for functional Volterra integral equations of convolution type. Journal of Computational and Applied Mathematics, 2016, 301, 230-240.	1.1	10
70	On the existence and uniqueness of (N , Î») $(N,lambda)$ -periodic solutions to a class of Volterra difference equations. Advances in Difference Equations, 2019, 2019, .	3.5	10
71	Fundamental solutions for discrete dynamical systems involving the fractional Laplacian. Mathematical Methods in the Applied Sciences, 2019, 42, 4688-4711.	1.2	10
72	Lattice Dynamical Systems Associated with a Fractional Laplacian. Numerical Functional Analysis and Optimization, 2019, 40, 1315-1343.	0.6	10

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73	Controllability results for the Moore–Gibson–Thompson equation arising in nonlinear acoustics. Journal of Differential Equations, 2019, 266, 7813-7843.	1.1	10
74	A mean ergodic theorem for resolvent operators. Semigroup Forum, 1993, 47, 227-230.	0.3	9
75	Some applications of Fejér's theorem to operator cosine functions in Banach spaces. Proceedings of the American Mathematical Society, 1997, 125, 2353-2362.	0.4	9
76	Maximal Regularity for Flexible Structural Systems in Lebesgue Spaces. Mathematical Problems in Engineering, 2010, 2010, 1-15.	0.6	9
77	Well-posedness of second order evolution equation on discrete time. Journal of Difference Equations and Applications, 2010, 16, 1165-1178.	0.7	9
78	Pseudo Asymptotic Solutions of Fractional Order Semilinear Equations. Banach Journal of Mathematical Analysis, 2013, 7, 42-52.	0.4	9
79	Fundamental solutions for semidiscrete evolution equations via Banach algebras. Advances in Difference Equations, 2021, 2021, 35.	3.5	9
80	A characterization of uniform continuity for Volterra equations in Hilbert spaces. Proceedings of the American Mathematical Society, 1998, 126, 3581-3587.	0.4	8
81	On the inversion of the Laplace transform for resolvent families in UMD spaces. Archiv Der Mathematik, 2003, 81, 182-192.	0.3	8
82	Singular perturbation for Volterra equations of convolution type. Applied Mathematics and Computation, 2006, 181, 1624-1634.	1.4	8
83	Stochastic Volterra equations driven by cylindrical Wiener process. Journal of Evolution Equations, 2007, 7, 373-386.	0.6	8
84	Maximal regularity for perturbed integral equations on periodic Lebesgue spaces. Journal of Mathematical Analysis and Applications, 2008, 348, 775-786.	0.5	8
85	The fractional Fourier transform and quadratic field magnetic resonance imaging. Computers and Mathematics With Applications, 2011, 62, 1576-1590.	1.4	8
86	Weighted pseudo almost periodic solutions to a class of semilinear integro-differential equations in Banach spaces. Advances in Difference Equations, 2015, 2015, .	3.5	8
87	Dynamics of the solutions of the water hammer equations. Topology and Its Applications, 2016, 203, 67-83.	0.2	8
88	LebesguE Regularity for Nonlocal Time-Discrete Equations with Delays. Fractional Calculus and Applied Analysis, 2018, 21, 696-715.	1.2	8
89	Solutions to stochastic fractional relaxation equations. Physica Scripta, 2009, T136, 014030.	1.2	7
90	A Landau–Kolmogorov inequality for generators of families of bounded operators. Journal of Mathematical Analysis and Applications, 2010, 371, 614-623.	0.5	7

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91	Solutions to stochastic fractional oscillation equations. Applied Mathematics Letters, 2010, 23, 1361-1366.	1.5	7
92	Nonlocal operators are chaotic. Chaos, 2020, 30, 103126.	1.0	7
93	Existence of $$(N,lambda)$$-Periodic Solutions for Abstract Fractional Difference Equations. Mediterranean Journal of Mathematics, 2022, 19, 1.	0.4	7
94	Mild almost periodic solutions of abstract differential equations. Journal of Mathematical Analysis and Applications, 1989, 143, 560-571.	0.5	6
95	Singular perturbations of integro-differential equations. Applied Mathematics and Computation, 2006, 175, 1582-1595.	1.4	6
96	Periodic solutions of abstract functional differential equations with infinite delay. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 2016-2023.	0.6	6
97	On the boundedness of generalized CesÃro operators on Sobolev spaces. Journal of Mathematical Analysis and Applications, 2014, 419, 373-394.	0.5	6
98	Chaotic semigroups from second order partial differential equations. Journal of Mathematical Analysis and Applications, 2017, 456, 402-411.	0.5	6
99	Visibility graphs of fractional Wuâ€"Baleanu time series. Journal of Difference Equations and Applications, 2019, 25, 1321-1331.	0.7	6
100	Sharp extensions and algebraic properties for solution families of vector-valued differential equations. Banach Journal of Mathematical Analysis, 2016, 10, 169-208.	0.4	5
101	On the existence of chaos for the viscous van Wijngaardenâ€"Eringen equation. Chaos, Solitons and Fractals, 2016, 89, 100-104.	2.5	5
102	On the exponential stability of Samuelson model on some classes of times scales. Journal of Computational and Applied Mathematics, 2017, 325, 1-17.	1.1	5
103	Solutions of abstract integroâ€differential equations via Poisson transformation. Mathematical Methods in the Applied Sciences, 2021, 44, 2495-2505.	1.2	5
104	Maximal Regularity of the Discrete Harmonic Oscillator Equation. Advances in Difference Equations, 2009, 2009, 1-14.	3.5	4
105	Bounded mild solutions of perturbed Volterra equations with infinite delay. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 3976-3983.	0.6	4
106	Second and third order forward difference operator: what is in between?. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	4
107	Well-posedness for a fourth-order equation of Mooreâ€"Gibsonâ€"Thompson type. Electronic Journal of Qualitative Theory of Differential Equations, 2021, , 1-18.	0.2	4
108	Qualitative properties of nonlocal discrete operators. Mathematical Methods in the Applied Sciences, 2022, 45, 6346-6377.	1.2	4

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109	On the spectrum of cosine operator functions. Integral Equations and Operator Theory, 1989, 12, 713-724.	0.4	3
110	Almost automorphic solutions to abstract Volterra equations on the line. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 3805-3814.	0.6	3
111	The complex inversion formula in UMD spaces for families of bounded operators. Applicable Analysis, 2012, 91, 937-946.	0.6	3
112	Asymptotic Periodicity for Strongly Damped Wave Equations. Abstract and Applied Analysis, 2013, 2013, 1-14.	0.3	3
113	Uniform stability of (a,k)-regularized families. Asymptotic Analysis, 2013, 84, 47-60.	0.2	3
114	A characterization of well-posedness for abstract Cauchy problems with finite delay. Journal of Mathematical Analysis and Applications, 2018, 457, 410-435.	0.5	3
115	On a connection between the N-dimensional fractional Laplacian and 1-D operators on lattices. Journal of Mathematical Analysis and Applications, 2022, 511, 126051.	0.5	3
116	The Maximal Subspace for Generation of (a,k) T[...] and Applied Analysis, 2012, 2012, 1-14.	0.3	2
117	Abstract Volterra equations with state-dependent delay. Journal of Integral Equations and Applications, 2015, 27, .	0.2	2
118	Well-posedness for the abstract Blackstock–Crighton–Westervelt equation. Journal of Evolution Equations, 2021, 21, 313-337.	0.6	2
119	Existence and multiplicity of nontrivial solutions to the modified Kirchhoff equation without the growth and Ambrosetti–Rabinowitz conditions. Electronic Journal of Qualitative Theory of Differential Equations, 2021, , 1-18.	0.2	2
120	Singular perturbation and initial layer for the abstract Moore-Gibson-Thompson equation. Journal of Mathematical Analysis and Applications, 2022, 516, 126507.	0.5	2
121	Maximal Regularity for Perturbed Integral Equations on the Line. Integral Equations and Operator Theory, 2012, 74, 513-526.	0.4	1
122	Calcium (Ca2+) waves data calibration and analysis using image processing techniques. BMC Bioinformatics, 2013, 14, 162.	1.2	1
123	Stochastic Volterra equations under perturbations. Electronic Communications in Probability, 2014, 19, .	0.1	1
124	Asymptotic behavior of mild solutions for a class of abstract nonlinear difference equations of convolution type. Advances in Difference Equations, 2019, 2019, .	3.5	1
125	Nonlocal Integrated Solutions for a Class of Abstract Evolution Equations. Acta Applicandae Mathematicae, 2019, 164, 165-183.	0.5	1
126	Lp-Lq-Well Posedness for the Moore–Gibson–Thompson Equation with Two Temperatures on Cylindrical Domains. Mathematics, 2020, 8, 1748.	1.1	1

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127	Volterra–Stieltjes integral equations and impulsive Volterra–Stieltjes integral equations. Electronic Journal of Qualitative Theory of Differential Equations, 2021, , 1-20.	0.2	1
128	Regularity of solutions to stochastic Volterra equations with infinite delay. Proceedings of the American Mathematical Society, 2007, 135, 531-540.	0.4	1
129	On a Class of Non-Markovian Langevin Equations. Open Systems and Information Dynamics, 2013, 20, 1350016.	0.5	0
130	Asymptotic Behavior of Nonlinear Evolution Equations. Abstract and Applied Analysis, 2015, 2015, 1-1.	0.3	0
131	A Semigroup Approach to Fractional Poisson Processes. Complex Analysis and Operator Theory, 2018, 12, 777-785.	0.3	0
132	Maximal ℓ_p-regularity for discrete time Volterra equations with delay. Journal of Difference Equations and Applications, 2019, 25, 1344-1362.	0.7	0
133	On close to scalar families for fractional evolution equations: zero–one law. Semigroup Forum, 2019, 99, 140-152.	0.3	0
134	The Super-Diffusive Singular Perturbation Problem. Mathematics, 2020, 8, 403.	1.1	0
135	Normal periodic solutions for the fractional abstract Cauchy problem. Boundary Value Problems, 2021, 2021, .	0.3	0
136	Semigroups on time scales and applications to abstract Cauchy problems. Topological Methods in Nonlinear Analysis, 0, , 1.	0.2	0
137	Globally attractive mild solutions for non-local in time subdiffusion equations of neutral type. Topological Methods in Nonlinear Analysis, 0, , 1.	0.2	0