# M Kirane, Mokhtar Kirane

List of Publications by Year
in descending order



| 95 | 1,350 | 394421 19 | 395702 33 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 97 | 97 | 97 | 525 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Existence and asymptotic stability of a viscoelastic wave equation with a delay. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 1065-1082. | 1.4 | 122 |
| 2 | An inverse source problem for a two dimensional time fractional diffusion equation with nonlocal boundary conditions. Mathematical Methods in the Applied Sciences, 2013, 36, 1056-1069. | 2.3 | 101 |
| 3 | Critical exponents of Fujita type for certain evolution equations and systems with spatio-temporal fractional derivatives. Journal of Mathematical Analysis and Applications, 2005, 312, 488-501. | 1.0 | 92 |
| 4 | Determination of an unknown source term and the temperature distribution for the linear heat equation involving fractional derivative in time. Applied Mathematics and Computation, 2011, 218, 163-170. | 2.2 | 69 |
| 5 | Hermiteâ€“Hadamard, Hermiteâ€“Hadamardâ€“FejÃ©r, Dragomirâ€“Agarwal and Pachpatte type inequalities for convex functions via new fractional integrals. Journal of Computational and Applied Mathematics, 2019, 353, 120-129. | 2.0 | 67 |
| 6 | Qualitative properties of solutions to a time-space fractional evolution equation. Quarterly of Applied Mathematics, 2012, 70, 133-157. | 0.7 | 54 |
| 7 | An inverse problem for a generalized fractional diffusion. Applied Mathematics and Computation, 2014, 249, 24-31. | 2.2 | 51 |
| 8 | Maximum principle for certain generalized time and space fractional diffusion equations. Quarterly of Applied Mathematics, 2015, 73, 163-175. | 0.7 | 45 |
| 9 | Inverse problems for a nonlocal wave equation with an involution perturbation. Journal of Nonlinear Science and Applications, 2016, 09, 1243-1251. | 1.0 | 38 |
| 10 | Fujitaâ€™s Exponent for a Semilinear Wave Equation with Linear Damping. Advanced Nonlinear Studies, 2002, 2, 41-49. | 1.7 | 32 |
| 11 | Global bounds and asymptotics for a system of reaction-diffusion equations. Journal of Mathematical Analysis and Applications, 1989, 138, 328-342. | 1.0 | 31 |
| 12 | A Survey of Useful Inequalities in Fractional Calculus. Fractional Calculus and Applied Analysis, 2017, 20, 574-594. | 2.2 | 30 |
| 13 | Lyapunov-type inequalities for fractional partial differential equations. Applied Mathematics Letters, 2017, 66, 30-39. | 2.7 | 29 |
| 14 | Non-existence of Global Solutions to a System of Fractional Diffusion Equations. Acta Applicandae Mathematicae, 2014, 133, 235-248. | 1.0 | 25 |
| 15 | An inverse problem for space and time fractional evolution equations with an involution perturbation. Quaestiones Mathematicae, 2017, 40, 151-160. | 0.6 | 25 |
| 16 | On an inverse problem of reconstructing a subdiffusion process from nonlocal data. Mathematical Methods in the Applied Sciences, 2019, 42, 2043-2052. | 2.3 | 23 |
| 17 | Blowing-up solutions of the time-fractional dispersive equations. Advances in Nonlinear Analysis, 2021, 10, 952-971. | 2.6 | 23 |
| 18 | Nonexistence of global solutions of systems of time fractional differential equations posed on the Heisenberg group. Mathematical Methods in the Applied Sciences, 2022, 45, 7336-7345. | 2.3 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Boundary-value problems for differential equations of fractional order. Journal of Mathematical Sciences, 2013, 194, 499-512. | 0.4 | 21 |
| 20 | Uniform and weak stability of Bresse system with two infinite memories. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1. | 1.4 | 21 |
| 21 | Absence of local and global solutions to an elliptic system with time-fractional dynamical boundary conditions. Siberian Mathematical Journal, 2007, 48, 477-488. | 0.6 | 19 |
| 22 | On the nonexistence of blowing-up solutions to a fractional functional-differential equation. Georgian Mathematical Journal, 2012, 19, . | 0.6 | 19 |
| 23 | On a Rieszâ€“Feller space fractional backward diffusion problem with a nonlinear source. Journal of Computational and Applied Mathematics, 2017, 312, 103-126. | 2.0 | 19 |
| 24 | Global Solutions of Reactionâ€“Diffusion Systems with a Balance Law and Nonlinearities of Exponential Growth. Journal of Differential Equations, 2000, 165, 24-41. | 2.2 | 18 |
| 25 | Identification and regularization for unknown source for a time-fractional diffusion equation. Computers and Mathematics With Applications, 2017, 73, 931-950. | 2.7 | 18 |
| 26 | Nonlinear fractional differential equations of Sobolev type. Mathematical Methods in the Applied Sciences, 2014, 37, 2009-2016. | 2.3 | 16 |
| 27 | Nonexistence of global solutions to a hyperbolic equation with a spaceâ€“time fractional damping. Applied Mathematics and Computation, 2005, 167, 1304-1310. | 2.2 | 15 |
| 28 | Global existence and asymptotic behavior for a time fractional reactionâ€“diffusion system. Computers and Mathematics With Applications, 2017, 73, 951-958. | 2.7 | 15 |
| 29 | On a nonlocal problem for the Laplace equation in the unit ball with fractional boundary conditions. Mathematical Methods in the Applied Sciences, 2016, 39, 1121-1128. | 2.3 | 14 |
| 30 | Life span of solutions to a nonlocal in time nonlinear fractional SchrÃ¶dinger equation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1473-1482. | 1.4 | 13 |
| 31 | A derivative concept with respect to an arbitrary kernel and applications to fractional calculus. Mathematical Methods in the Applied Sciences, 2019, 42, 137-160. | 2.3 | 12 |
| 32 | A New Fourier Truncated Regularization Method for Semilinear Backward Parabolic Problems. Acta Applicandae Mathematicae, 2017, 148, 143-155. | 1.0 | 11 |
| 33 | Hartman-Wintner-Type Inequality for a Fractional Boundary Value Problem via a Fractional Derivative with respect to Another Function. Discrete Dynamics in Nature and Society, 2017, 2017, 1-8. | 0.9 | 11 |
| 34 | Infinitely many weak solutions forp(x)-Laplacian-like problems with Neumann condition. Complex Variables and Elliptic Equations, 2018, 63, 23-36. | 0.8 | 11 |
| 35 | Nonexistence for the Laplace equation with a dynamical boundary condition of fractional type. Siberian Mathematical Journal, 2007, 48, 849-856. | 0.6 | 10 |
| 36 | Nonexistence results for the Cauchy problem of time fractional nonlinear systems of thermoâ€elasticity. Mathematical Methods in the Applied Sciences, 2017, 40, 4272-4279. | 2.3 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Approximation of an Inverse Initial Problem for a Biparabolic Equation. Mediterranean Journal of Mathematics, 2018, 15, 1. | 0.8 | 10 |
| 38 | Finite time blow-up for damped wave equations with spaceâ€“time dependent potential and nonlinear memory. Nonlinear Differential Equations and Applications, 2018, 25, 1. | 0.8 | 10 |
| 39 | Pointwisea priori bounds for a strongly coupled system of reaction-diffusion equations with a balance law. Mathematical Methods in the Applied Sciences, 1998, 21, 1227-1232. | 2.3 | 9 |
| 40 | Qualitative properties of solutions to a nonlocal evolution system. Mathematical Methods in the Applied Sciences, 2011, 34, 1125-1143. | 2.3 | 9 |
| 41 | Filter regularization for final value fractional diffusion problem with deterministic and random noise. Computers and Mathematics With Applications, 2017, 74, 1340-1361. | 2.7 | 9 |
| 42 | Diffusion Terms in Systems of Reaction Diffusion Equations Can Lead to Blow Up. Journal of Mathematical Analysis and Applications, 1998, 218, 325-327. | 1.0 | 7 |
| 43 | On Lyapunov-type inequalities for a certain class of partial differential equations. Applicable Analysis, 2020, 99, 40-49. | 1.3 | 7 |
| 44 | Existence and multiplicity of solutions to fractional p-Laplacian systems with concaveâ€“convex nonlinearities. Bulletin of Mathematical Sciences, 2020, 10, 2050007. | 0.7 | 7 |
| 45 | On the subâ€“diffusion fractional initial value problem with time variable order. Advances in Nonlinear Analysis, 2021, 10, 1301-1315. | 2.6 | 7 |
| 46 | Nonexistence results for a class of evolution equations in the Heisenberg group. Fractional Calculus and Applied Analysis, 2015, 18, 717-734. | 2.2 | 6 |
| 47 | On one class of persymmetric matrices generated by boundary value problems for differential equations of fractional order. Applied Mathematics and Computation, 2015, 268, 151-163. | 2.2 | 6 |
| 48 | A numerical approach based on lnâ€shifted Legendre polynomials for solving a fractional model of pollution. Mathematical Methods in the Applied Sciences, 2017, 40, 7356-7367. | 2.3 | 6 |
| 49 | Global existence and blow-up for a space and time nonlocal reaction-diffusion equation. Quaestiones Mathematicae, 2021, 44, 747-753. | 0.6 | 6 |
| 50 | Temperature growth and temperature bounds in special cases of combustion models. Applicable Analysis, 1993, 50, 131-144. | 1.3 | 5 |
| 51 | Blowingâ€up solutions to twoâ€times fractional differential equations. Mathematische Nachrichten, 2013, 286, 1797-1804. | 0.8 | 5 |
| 52 | Nonexistence results for pseudo-parabolic equations in the Heisenberg group. Monatshefte Fur Mathematik, 2016, 180, 255-270. | 0.9 | 5 |
| 53 | A cluster of many small holes with negative imaginary surface impedances may generate a negative refraction index. Mathematical Methods in the Applied Sciences, 2016, 39, 3607-3622. | 2.3 | 5 |
| 54 | Blow-up Results for Fractional Evolution Problems with Nonlocal Diffusion. Mediterranean Journal of Mathematics, 2016, 13, 3513-3523. | 0.8 | 5 |

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|---|---|---|---|
| 55 | Existence and uniqueness of mild solution of time-fractional semilinear differential equations with a nonlocal final condition. Computers and Mathematics With Applications, 2019, 78, 1651-1668. | 2.7 | 5 |
| 56 | Blowing-up Solutions of Distributed Fractional Differential Systems. Chaos, Solitons and Fractals, 2021, 145, 110747. | 5.1 | 5 |
| 57 | On a reaction diffusion equation with nonlinear timeâ€nonlocal source term. Mathematical Methods in the Applied Sciences, 2016, 39, 236-244. | 2.3 | 4 |
| 58 | On local existence and blowup of solutions for a timeâ€space fractional diffusion equation with exponential nonlinearity. Mathematical Methods in the Applied Sciences, 2019, 42, 1819-1830. | 2.3 | 4 |
| 59 | Blow-up of smooth solutions of the time-fractional Burgers equation. Quaestiones Mathematicae, 2020, 43, 185-192. | 0.6 | 4 |
| 60 | Nonexistence of global solutions for a class of two-time nonlinear evolution equations. Computers and Mathematics With Applications, 2014, 68, 2028-2035. | 2.7 | 3 |
| 61 | Nonexistence of Solutions of Some Non-Linear Non-Local Evolution Systems on the Heisenberg Group. Fractional Calculus and Applied Analysis, 2015, 18, 1336-1349. | 2.2 | 3 |
| 62 | Global existence of solutions to a nonlinear anomalous diffusion system. Applied Mathematics Letters, 2016, 59, 60-64. | 2.7 | 3 |
| 63 | On a semi-linear system of nonlocal time and space reaction diffusion equations with exponential nonlinearities. Journal of Integral Equations and Applications, 2018, 30, . | 0.6 | 3 |
| 64 | A triangular nonlinear reactionâ€fractional diffusion system with a balance law. Mathematical Methods in the Applied Sciences, 2018, 41, 1825-1830. | 2.3 | 3 |
| 65 | Extended Global Asymptotic Stability Conditions for a Generalized Reactionâ€“Diffusion System. Acta Applicandae Mathematicae, 2019, 160, 1-20. | 1.0 | 3 |
| 66 | Lyapunovâ€and Hartmanâ€“Wintnerâ€type inequalities forÂaÂnonlinear fractional BVP with generalized Ïâ€Hilfer derivative. Mathematical Methods in the Applied Sciences, 2021, 44, 2637-2649. | 2.3 | 3 |
| 67 | Global Existence and Blow-up of Solutions for a System of Fractional Wave Equations. Taiwanese Journal of Mathematics, 2022, 26, . | 0.4 | 3 |
| 68 | Global nonexistence results for a class of hyperbolic systems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6130-6143. | 1.1 | 2 |
| 69 | On Nonlinear Nonlocal Systems of Reaction Diffusion Equations. Abstract and Applied Analysis, 2014, 2014, 1-6. | 0.7 | 2 |
| 70 | Nonexistence results for higher order pseudoâ€parabolic equations in the Heisenberg group. Mathematical Methods in the Applied Sciences, 2017, 40, 1280-1287. | 2.3 | 2 |
| 71 | On systems of reactionâ€“diffusion equations with a balance law: The sequel. Computers and Mathematics With Applications, 2019, 78, 1244-1260. | 2.7 | 2 |
| 72 | The global existence and asymptotic stability of solutions for a reactionâ€“diffusion system. Nonlinear Analysis: Real World Applications, 2020, 53, 103052. | 1.7 | 2 |

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|---|---|---|---|
| 73 | Lyapunov, Hartman-Wintner and De La VallÃ©e Poussin-type inequalities for fractional elliptic boundary value problems. Complex Variables and Elliptic Equations, 2022, 67, 246-258. | 0.8 | 2 |
| 74 | Existence of solutions of fractional pâ€Laplacian systems with different critical Sobolevâ€Hardy exponents. Mathematical Methods in the Applied Sciences, 2020, 43, 10237-10248. | 2.3 | 2 |
| 75 | Local and global existence of mild solutions of time-fractional Navierâ€“Stokes system posed on the Heisenberg group. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1. | 1.4 | 2 |
| 76 | A general blow-up result for a degenerate hyperbolic inequality in an exterior domain. Bulletin of Mathematical Sciences, 2023, 13, . | 0.7 | 2 |
| 77 | Existence and asymptotic behavior for a convection problem. Nonlinear Analysis: Theory, Methods & Applications, 2004, 59, 407-424. | 1.1 | 1 |
| 78 | Nonexistence results for the Cauchy problem for some fractional nonlinear systems of thermoâ€elasticity type. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 1119-1128. | 1.6 | 1 |
| 79 | Regularization of an inverse nonlinear parabolic problem with time-dependent coefficient and locally Lipschitz source term. Journal of Mathematical Analysis and Applications, 2017, 449, 697-717. | 1.0 | 1 |
| 80 | Regularization and error estimate of infiniteâ€time ruin probabilities for Cramerâ€Lundberg model. Mathematical Methods in the Applied Sciences, 2018, 41, 3820-3831. | 2.3 | 1 |
| 81 | Local and blowingâ€up solutions for a spaceâ€time fractional evolution system with nonlinearities of exponential growth. Mathematical Methods in the Applied Sciences, 2019, 42, 4378-4393. | 2.3 | 1 |
| 82 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e21" altimg="si3.svg"><mml:msup><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆ</mml:mi></mml:mrow></mml:msup></mml:math> of solutions of a system of strongly coupled spaceâ€“time fractional evolution equations. Applied Mathematics Letters, 2020, 103, 106174. | 2.7 | 1 |
| 83 | Nonexistence of Global Weak Solutions of a System of Nonlinear Wave Equations with Nonlinear Fractional Damping. Journal of Function Spaces, 2020, 2020, 1-8. | 0.9 | 1 |
| 84 | Regularization and error estimate for an initial inverse nonlocal diffusion problem. Computers and Mathematics With Applications, 2020, 79, 3331-3352. | 2.7 | 1 |
| 85 | An Exterior Parabolic Differential Inequality Under Semilinear Dynamical Boundary Conditions. Bulletin of the Malaysian Mathematical Sciences Society, 2021, 44, 639-660. | 0.9 | 1 |
| 86 | Blowing-up solutions of differential equations with shifts: A survey. Discrete and Continuous Dynamical Systems - Series S, 2023, 16, 1537-1556. | 1.1 | 1 |
| 87 | Nonexistence results for some nonlinear nonlocal elliptic inequalities with variable exponents. Mathematical Methods in the Applied Sciences, 2016, 39, 5529-5538. | 2.3 | 0 |
| 88 | The International Conference: Mathematical and computational modelling in science and technology. Mathematical Methods in the Applied Sciences, 2017, 40, 6053-6053. | 2.3 | 0 |
| 89 | Corrigendum to â€œOn the absence of global weak solutions for some differential inequalities of Sobolev type in an exterior domainâ€•[Math Meth Appl Sci. 2018;1â€“15. https://doi.org/10.1002/mma.5080]. Mathematical Methods in the Applied Sciences, 2018, 41, 8344-8344. | 2.3 | 0 |
| 90 | On the absence of global weak solutions for some differential inequalities of Sobolev type in an exterior domain. Mathematical Methods in the Applied Sciences, 2018, 41, 5293-5307. | 2.3 | 0 |

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|---|---|---|---|
| 91 | Some Inequalities Involving Fractional q-Derivatives Related to the q-Leibniz Rule. Bulletin of the Malaysian Mathematical Sciences Society, 2019, 42, 3223-3231. | 0.9 | 0 |
| 92 | On the absence of global solutions for quantum versions of SchrÃ¶dinger equations and systems. Computers and Mathematics With Applications, 2019, 77, 740-751. | 2.7 | 0 |
| 93 | Solution blowâ€up for a fractional in time acoustic wave equation. Mathematical Methods in the Applied Sciences, 2020, 43, 6566-6575. | 2.3 | 0 |
| 94 | On blowing-up solutions for multi-time nonlinear hyperbolic equations and systems. Filomat, 2017, 31, 2599-2609. | 0.5 | 0 |
| 95 | Nonexistence of Global Positive Solutions for p-Laplacian Equations with Non-Linear Memory. Fractal and Fractional, 2021, 5, 189. | 3.3 | 0 |