Xiang Xu

List of Publications by Year
in descending order

28 papers	607 citations	1040056 9 h-index	610901 24 g-index
28 all docs	28 docs citations	28 times ranked	327 citing authors

#	Article	IF	Citations
1	On implied volatility recovery of a time-fractional Black-Scholes equation for double barrier options. Applicable Analysis, 2021, 100, 3145-3160.	1.3	3
2	An inverse spectral problem for a fourth-order Sturmâ€“Liouville operator based on trace formulae. Applied Mathematics Letters, 2021, 111, 106654.	2.7	0
3	Inverse Spectral Problem for a Damped Wave Operator. SIAM Journal on Applied Mathematics, 2021, 81, 1799-1820.	1.8	2
4	Numerical solution of an inverse random source problem for the time fractional diffusion equation via PhaseLift. Inverse Problems, 2021, 37, 045001.	2.0	7
5	COVID-19 in Singapore: Another story of success. International Journal of Mathematics for Industry, 2020, 12, .	0.8	9
6	Inverse Scattering by a Random Periodic Structure. SIAM Journal on Numerical Analysis, 2020, 58, 2934-2952.	2.3	4
7	On convexity of the functional for inverse problems of hyperbolic equations. Applied Mathematics Letters, 2019, 94, 174-180.	2.7	0
8	Inverse random source problem for biharmonic equation in two dimensions. Inverse Problems and Imaging, 2019, 13, 635-652.	1.1	6
9	On inverse problems for piezoelectric equation: stability analysis and numerical method. Inverse Problems, 2018, 34, 075012.	2.0	2
10	High-sensitivity HLA typing by Saturated Tiling Capture Sequencing (STC-Seq). BMC Genomics, 2018, 19, 50.	2.8	8
11	An explicit closed-form analytical solution for European options under the CGMY model. Communications in Nonlinear Science and Numerical Simulation, 2017, 42, 285-297.	3.3	11
12	A predictorâ€“corrector approach for pricing American options under the finite moment log-stable model. Applied Numerical Mathematics, 2015, 97, 15-29.	2.1	41
13	Analytically pricing double barrier options based on a time-fractional Blackâ€“Scholes equation. Computers and Mathematics With Applications, 2015, 69, 1407-1419.	2.7	86
14	Identification of the material properties in nonuniform nanostructures. Inverse Problems, 2015, 31, 125003.	2.0	3
15	New regularized algorithms based on the spectral method for solving deformable layer tomography. Applicable Analysis, 2015, 94, 506-523.	1.3	0
16	Inverse problems in quantifying mechanical properties in nanomaterials. Scientia Sinica Mathematica, 2015, 45, 831-842.	0.2	2
17	Analytically pricing European-style options under the modified Black-Scholes equation with a spatial-fractional derivative. Quarterly of Applied Mathematics, 2014, 72, 597-611.	0.7	51
18	Regularization by projection for a backward problem of the time-fractional diffusion equation. Journal of Inverse and Ill-Posed Problems, 2014, 22, 121-139.	1.0	32

#	Article	IF	Citations
19	Local stability for an inverse coefficient problem of a fractional diffusion equation. Chinese Annals of Mathematics Series B, 2014, 35, 429-446.	0.4	7
20	The determination of an unknown boundary condition in a fractional diffusion equation. Applicable Analysis, 2013, 92, 1511-1526.	1.3	45
21	An inverse random source problem in quantifying the elastic modulus of nanomaterials. Inverse Problems, 2013, 29, 015006.	2.0	24
22	An inverse diffusivity problem for the helium productionâ€“diffusion equation. Inverse Problems, 2012, 28, 085002.	2.0	1
23	Unique continuation on a line for the Helmholtz equation. Applicable Analysis, 2012, 91, 1761-1771.	1.3	7
24	Growth rate modeling and identification in the crystallization of polymers. Inverse Problems, 2012, 28, 095008.	2.0	6
25	Inverse source problem for a fractional diffusion equation. Inverse Problems, 2011, 27, 035010.	2.0	179
26	Carleman estimate for a fractional diffusion equation with half order and application. Applicable Analysis, 2011, 90, 1355-1371.	1.3	59
27	Numerical method for the inverse heat transfer problem in composite materials with Stefan-Boltzmann conditions. Advances in Computational Mathematics, 2010, 33, 471-489.	1.6	9
28	Numerical algorithms for inverse Sturm-Liouville problems. Numerical Algorithms, 0, , 1.	1.9	3