Xudong Yao

List of Publications by Year
in descending order

14 papers	131 citations	1307594 7 h-index	1199594 12 g-index
14 all docs	14 docs citations	14 times ranked	24 citing authors

#	Article	IF	Citations
1	A Morse index formula for minimax type saddle points by a Ljusternik–Schnirelman minimax algorithm and its application in computation of multiple solutions of semilinear elliptic equation. Journal of Computational and Applied Mathematics, 2021, 382, 113076.	2.0	0
2	A Ljusternik-Schnirelman minimax algorithm for finding equality constrained saddle points and its application for solving eigen problems: part I. Algorithm and global convergence. Advances in Computational Mathematics, 2019, 45, 269-310.	1.6	2
3	Two classes of Ljusternik–Schnirelman minimax algorithms and an application for finding multiple negative energy solutions of a class of p-Laplacian equations. Journal of Computational and Applied Mathematics, 2018, 342, 485-520.	2.0	5
4	Convergence analysis of a minimax method for finding multiple solutions of hemivariational inequality in Hilbert space. Advances in Computational Mathematics, 2016, 42, 1331-1362.	1.6	3
5	A minimax method for finding saddle points of upper semi-differentiable locally Lipschitz continuous functional in Banach space and its convergence. Journal of Computational and Applied Mathematics, 2016, 296, 528-549.	2.0	4
6	Ljusternik–Schnirelman Minimax Algorithms and an Application for Finding Multiple Negative Energy Solutions of Semilinear Elliptic Dirichlet Problem Involving Concave and Convex Nonlinearities: Part I. Algorithms and Convergence. Journal of Scientific Computing, 2016, 66, 19-40.	2.3	5
7	Convergence Analysis of a Minimax Method for Finding Multiple Solutions of Semilinear Elliptic Equation: Part I–On Polyhedral Domain. Journal of Scientific Computing, 2015, 62, 652-673.	2.3	6
8	A minimax method for finding saddle critical points of upper semi-differentiable locally Lipschitz continuous functional in Hilbert space and its convergence. Mathematics of Computation, 2013, 82, 2087-2136.	2.1	8
9	A numerical method for finding multiple co-existing solutions to nonlinear cooperative systems. Applied Numerical Mathematics, 2008, 58, 1614-1627.	2.1	10
10	Numerical Methods for Computing Nonlinear Eigenpairs: Part II. Non-Iso-Homogeneous Cases. SIAM Journal of Scientific Computing, 2008, 30, 937-956.	2.8	13
11	Unified Convergence Results on a Minimax Algorithm for Finding Multiple Critical Points in Banach Spaces. SIAM Journal on Numerical Analysis, 2007, 45, 1330-1347.	2.3	13
12	Numerical Methods for Computing Nonlinear Eigenpairs: Part I. Iso-Homogeneous Cases. SIAM Journal of Scientific Computing, 2007, 29, 1355-1374.	2.8	21
13	A local minimax characterization for computing multiple nonsmooth saddle critical points. Mathematical Programming, 2005, 104, 749-760.	2.4	8
14	A Minimax Method for Finding Multiple Critical Points in Banach Spaces and Its Application to Quasi-linear Elliptic PDE. SIAM Journal of Scientific Computing, 2005, 26, 1796-1809.	2.8	33