**[J1]** 夏小华，一类线性时变系统的渐近稳定性，*武汉水利电力学院学报*，**1986** 年第 **3** 期，**pp. 100-104.**
**X. Xia, The asymptotic stability of a linear time-varying system, *Journal of Wuhan Institute of Hydraulic and Electric Engineering*, 1986, no. 3, pp. 100-104.**

**[J2]** 夏小华，短期负荷预报问题的状态空间描述法，*水电能源科学*，**vol.4, no. 4, Dec. 1986, pp. 348-356.**
**X. Xia, The state space description method for short-term load forecasting problems, *International Journal Hydroelectric Energy*, vol. 4, no. 4, Dec. 1986, pp. 348-356.**

[J3] X. Xia and W. B. Gao, Nonlinear observer design by observer canonical forms, *International Journal of Control*, 47 (1988), 1081-1100.

[J4] X. Xia and W. B. Gao, On the exponential observers of nonlinear systems, *Systems and Control Letters*, 11 (1988), 319-325.

**[J5] X. Xia and W. B. Gao, Nonlinear observer design by observer error linearization, *SIAM Journal of Control and Optimisation*, 27 (1989), 199-216.**

[J6] 夏小华，高为炳，关于一类非线性仿射系统的开环解耦问题，*北京航空航天大学学报*，1989 年第 4 期，pp. 109-113. X. Xia and W. B. Gao, On the open loop decoupling problem of nonlinear control systems, *Journal of Beijing Univ. of Aeronautics and Astronautics*, 1989, no. 4, 109-113.

[J7] 夏小华，高为炳，非线性系统的最小阶动态解耦，*中国科学 A 辑*，1989 年 10 月第 10 期，pp. 1107-1112. X. Xia and W. B. Gao, Minimal order dynamic decoupling of nonlinear systems, *Acta Scientia Sinica*, Series A, 1989 (10), 1107-1112.

[J8] 夏小华，高为炳，非线性系统的动态反馈完全线性化，*系统科学与数学*，10(2)(1990), pp. 149-158. X. Xia and W. B. Gao, Exact linearization of nonlinear systems via dynamic state feedback, *J. of Sys. Sci. & Math. Scis.*, 10 (1990), 149-158.

[J9] 夏小华，高为炳，非线性控制系统的指数镇定和指数观测器设计问题，*数学物理学报*，10(1990), 3, pp. 343-349. X. Xia and W. B. Gao, On the exponential stabilisation and exponential observer design problem of nonlinear control systems, *Acta Mathematica Scientia*, 10 (1990), 3, pp. 343-349.

[J10] X. Xia and W. B. Gao, Minimal-order dynamic decoupling of nonlinear systems, *Science in China (Series A)*, vol. 33, no. 5, May 1990, pp. 617-624.

[J11] 夏小华，高为炳，动态扩张算法的一个性质，*控制理论与应用*，vol. 8, no. 2, June 1991, pp. 171-184. X. Xia and W. B. Gao, A property of the dynamic extension algorithm, *Control Theory and Applications*, vol. 8, no. 2, June 1991, pp. 171-184.

[J12] 高为炳，程勉，夏小华，非线性控制系统的发展，*自动化学报*，vol. 17, no. 5, Sept., 1991, pp. 513-523. W. B. Gao, M. Cheng and X. Xia, Development of nonlinear control systems, *Acta Automatica Sinica*, vol. 17, no. 5, Sept., 1991, pp. 513-523.

[J13] X. Xia and W. B. Gao, Simulation of pole assignment of linear control systems, *International Journal of Modelling and Simulation*, 11 (1991), 111-113.

[J14] 夏小华，非线性系统解耦原则及实施，*自动化学报*，vol. 18, no. 3, May 1992, pp. 266-272. X. Xia, Principle and implementation of decoupling for nonlinear systems, *Acta Automatica Sinica*, vol. 18, no. 3, May 1992, pp. 266-272.

[J15] 夏小华，受控不变分布的同伴及 DDP 控制律的刻划问题，*中国科学(A 辑)*, vol. 23, no. 2, Feb., 1993. Pp. 130-136. X. Xia, The friend set of controlled invariant distribution and parameterisation of DDP feedback, *Acta Scientia Sinica*, Series A, vol. 23, no. 2, Feb., 1993. Pp. 130-136.

[J16] 王玉夫，夏小华，高为炳，非线性解耦中的参数扰动，*北京航空航天大学学报*，1993 年第 3 期，pp. 1-9. Y. Wang, X. Xia and W. Gao, Parameter variations in nonlinear decoupling, *Journal of Beijing University of Aeronautics and Astronautics*, 1993(3), 1-9.

[J17] 夏小华，非线性解耦问题的解及其唯一性，*系统科学与数学*，13(4)(1993), pp. 289-296. X. Xia, On the solution and its uniqueness of nonlinear decoupling problems, J. Sys. Sci. & Math. Scis., 13(4)(1993), pp. 289-296.

**[J18] X. Xia, Parameterisation of decoupling control laws for affine nonlinear systems, *IEEE Transactions on Automatic Control*, AC-38, no. 6, 1993, pp. 916-928.**

[J19] 夏小华，控制系统解耦反馈的参数化问题，*自动化学报*，vol. 19, no. 6, Nov., 1993, pp. 706-710. X. Xia, On the parameterisation problem of noninteracting feedback for nonlinear systems, *Acta Automatica Sinica*, vol. 19, no. 6, Nov., 1993, pp. 706-710.

[J20] 夏小华，非线性稳定无交互控制的例题及反例研究，*自动化学报*，vol. 20, no. 2, March 1994, pp. 186-190. X. Xia, Examples and counterexamples in nonlinear stable noninteracting control, *Acta Automatica Sinica*, vol. 20, no. 2, March 1994, pp. 186-190.

[J21] 王少鹏，夏小华，高为炳，线性系统的最小解耦设计—一般情形，*北京航空航天大学学报*，vol. 20, no. 3, July 1994, pp. 235-242. S. Wang, X. Xia and W. Gao, The minimal decoupling design of linear systems: the general case, *Journal of Beijing University of Aeronautics and Astronautics*, 1994:20 (3), pp. 235-242.

[J22] 孙振东，夏小华，高为炳，多重(A, B)-不变子空间及多频采样控制，*自动化学报*，vol. 21, no. 3, May 1995, pp. 326-332. Z. Sun, X. Xia and W. B. Gao, Multiple (A, B)-invariant subspace and the multi-rate sampling control, *Acta Automatica Sinica*, vol. 21, no. 3, May 1995, pp. 326-332.

[J23] 孙振东，夏小华，关于非线性系统非正则线性化的一个充分条件，*控制理论与应用*，vol. 13, no. 1, Feb., 1996, pp. 41-46. Z. D. Sun and X. Xia, A sufficient condition for nonregular feedback linearization of nonlinear systems, *Control Theory and Applications*, vol. 13, no. 1, Feb., 1996, pp. 41-46.

[J24] X. Xia, A parameterisation approach to the disturbance decoupling problem with stability of nonlinear systems, *Automatica*, vol. 32, no. 4, 1996, 607-610.

[J25] Z. D. Sun and X. Xia, A theorem about dynamic feedback linearization on $R^4$, *Control Theory and Applications*, vol. 13, no. 4, Aug., 1996, pp. 500-504.

[J26] X. Xia and M. Zeitz, On continuous nonlinear observers, *International Journal of Control*, vol. 66, no. 6, 1997, pp. 943-954.

[J27] Z. D. Sun and X. Xia, On nonregular feedback linearization, *Automatica*, vol. 33, no. 7, 1997, pp. 1339-1344.

[J28] 孙振东，夏小华，一个结构分解算法及其在解耦问题中的应用，*自动化学报*，vol. 23, no. 5, Sept., 1997, pp. 710-713. Z. D. Sun and X. Xia, A structural decomposition algorithm and its application to the decoupling problem, *Acta Automatica Sinica*, 23 (5), 710-713, 1997.

[J29] 孙振东，夏小华，感应电动机的精确控制方法，*北京航空航天大学学报*，vol. 23, no. 6, Dec., 1997, pp. 740-744. Z. D. Sun and X. Xia, Exact control method for induction motor, *Journal of Beijing University of Aeronautics and Astronautics*, 1997, vol. 23 (6), 740-744.

[J30] 孙振东，夏小华，关于非线性 Morgan 问题的一个充分条件，*自动化学报*，vol. 24, no. 4, July 1998, pp. 433-438. Z. D. Sun and X. Xia, A sufficient condition for nonlinear Morgan's problem, *Acta Automatica Sinica*, vol. 24, no. 4 (1998), 433-438.

[J31] X. Xia and C. H. Moog, Disturbance decoupling of nonlinear systems by output feedback, *IEEE Transactions on Automatic Control*, vol. 44, no. 7, July 1999, pp. 1425-1429.

[J32] B. Guo, X. Xia, F. R. Camisani-Calzolari and I. K. Craig, A semi-discrete approach to modeling and control of the continuous casting process, *Steel Research*, vol. 71, no. 6+7, 2000, pp. 220-227.

[J33] X. Xia, C. H. Moog and R. Pothin, Extended output injection and output feedback i/o linearization, *Electronics Letters*, vol. 38, no. 4, 2002, pp. 200-202.

[J34] X. Xia, Global frequency estimation using adaptive identifiers, *IEEE Transactions on Automatic Control*, vol. AC-47, No. 7, July 2002, pp. 1188-1193.

[J35] X. Xia, Well-posedness of piecewise-linear systems with multiple modes and multiple criteria, *IEEE Transactions on Automatic Control*, vol. AC-47, No. 10, October 2002, pp. 1716-1720.

[J36] X. Xia, LA. Marquez, P. Zagalak and CH. Moog, Analysis of nonlinear time-delay systems using modules over non-commutative rings, *Automatica*, vol. 38 (2002), pp. 1549-1555.

[J37] R. Pothin, C. H. Moog and X. Xia, Disturbance decoupling of nonlinear MISO systems by static measurement feedback, *Kybernetika*, vol. 38, no.5 (2002), pp. 601-608.

**[J38] X. Xia, C. H. Moog, Identifiability of nonlinear systems with applications to HIV/AIDS models, *IEEE Transactions on Automatic Control*, vol. 48, no. 2, February, 2003, pp. 330-336.**

[J39] X. Xia, Estimation of HIV/AIDS parameters, *Automatica*, 39 (2003), pp. 1983-1988.

[J40] X. Xia, Zero polyhedral cones, *Applied Mathematics Letters*, vol. 16, 2003, pp. 961-966.

[J41] M. Jeffrey, X. Xia, I.K. Craig, When to initiate HIV therapy: a control theoretic approach, *IEEE Transactions on Biomedical Engineering*, vol. 50, no. 11, Nov., 2003, 1213-1220.

[J42] I.K. Craig, *X. Xia, and J.W. Venter,* Introducing HIV/AIDS education into the electrical engineering curriculum at the University of Pretoria, *IEEE Transactions on Education*, vol. 47, no. 1, 65-73, February 2004.

[J43] X. Xia, A. S. I. Zinober, Periodic orbits from Delta-modulation of stable linear systems, *IEEE Transactions on Automatic Control*, vol. 49, no. 8, 1376-1380, August 2004.

[J44] C. Li and X. Xia, On the bound of the Lyapunov exponents for continuous systems, *Chaos*, vol. 14, no. 3, 557-561, September 2004.

**[J45] X. Xia, R. Gai and G. Chen, Periodic orbits arising from Delta-modulated feedback control, *Chaos, Solitons & Fractals*, vol.19, 581-595, 2004.**

[J46] T. C. Song, L. P. Linde and X. Xia, A new WCDMA transmit power control technique, *The Transactions of the SA Institute of Electrical Engineering*, vol. 96, no. 1, January 2005, pp. 45-55.

[J47] I.K. Craig and X. Xia, Can HIV/AIDS be controlled? *IEEE Control Systems Magazine*, vol. 25, no. 2, February 2005, pp. 80-83.

[J48] C. M. Gray, C. Williamson, H. Bredell, A. Puren, X. Xia, R. Filter, L. Zijenah, H. Cao, L. Morries, E. Vardas, M. Colvin, G. Gray, J. McIntyre, R. Musonda, S. Allen, D. Katzenstein, M. Mbizo, N. Kumwenda,

T. Taha, S. A. Karim, J. Flores and H. W. Sheppard, Viral dynamics and CD4+ T celll counts in subtype C human immunodeficiency virus type 1-infected individuals from Southern Africa, *Aids Research and Human Retroviruses*, vol. 21, no. 4, 2005, pp. 285-291.

[J49] R. A. Filter, X. Xia and C. M. Gray, Dynamic HIV/AIDS parameter estimation with application to a vaccine readiness study in Southern Africa, *IEEE Transactions on Biomedical Engineering*, vol. 52, no. 5, May 2005, pp. 284-291.

[J50] A. M. Jeffrey, X. Xia and I. K. Craig, A viral load time response analysis to anti-retroviral therapy, *The Transactions of the SA Institute of Electrical Engineering*, vol. 96, no. 3, September 2005, pp. 234-239.

[J51] X. Xia, G. Chen and R. Gai, Control Lyapunov modes of linear control systems, *The Transactions of the SA Institute of Electrical Engineering*, vol. 96, no. 4, December 2005, pp. 273-278.

[J52] J. Zhang, X. Xia, and C. H. Moog, Parameter identifiability of nonlinear systems with time-delay, *IEEE Transactions on Automatic Control*, vol. 51, no. 2, February 2006, pp. 371-375.

[J53] X. Xia and A. S. I. Zinober, Δ-modulated feedback in discretization of sliding mode control, *Automatica*, vol. 42, 2006, pp. 771-776.

[J54] X. Zhuan and X. Xia, Cruise control scheduling of heavy haul trains, *IEEE Transactions on Control Systems Technology*, Vol. 14, No. 4, July 2006, pp. 757-766.

[J55] R. Gai, G. Chen and X. Xia, Global dynamics of unbalanced Delta-modulated feedback-controlled discrete-time systems, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B*, 13 (2006), pp. 635-679.

[J56] R. Gai, X. Xia and G. Chen, Complex dynamics of systems under Delta-modulated feedback, *IEEE Transactions on Automatic Control*, vol. 51, no. 12, December 2006, pp. 1888-1902.

[J57] M. Chou, X. Xia and C. Kayser, Modelling and model validation of heavy-haul trains equipped with electronically controlled pneumatic brake systems, *Control Engineering Practice*, 15 (2007), pp. 501-509.

[J58] M. Chou and X. Xia, Optimal cruise control of heavy-haul trains equipped with electronically controlled pneumatic brake systems, *Control Engineering Practice*, 15 (2007), pp. 511-519.

**[J59] X. Xia, Modelling of HIV infection: Vaccine readiness, drug effectiveness and therapeutical failures, *Journal of Process Control*, 17 (2007), pp. 253-260.**

[J60] X. Xia and G. Chen, On delta-modulated control: a simple system with complex dynamics, *Chaos, Solitons & Fractals*, 33 (2007), pp. 1314-1328.

[J61] X. Xia, Periodic orbits arising from two-level quantized feedback control, *Chaos, Solitons & Fractals*, 33 (2007), pp. 1339-1347.

[J62] Frank Doyle, Lois Jovanovic, Dale Seborg, Robert S. Parker, B. Wayne Bequette, Annah M. Jeffrey, Xiaohua Xia, Ian K. Craig, Thomas McAvoy, A tutorial on biomedical process control, *Journal of Process Control* 17 (2007), pp. 571-572.

[J63] Annah M. Jeffrey, X. Xia and IK Craig, Structured treatment interruptions: a control mathematical approach to protocol design, *Journal of Process Control* 17 (2007), pp. 586-590.

[J64] X. Zhuan and X. Xia, Optimal scheduling and control of heavy haul trains equipped with electronically controlled pneumatic braking systems, *IEEE Transactions on Control Systems Technology*, Vol. 15, no. 6, Nov., 2007, pp. 1159-1166.

[J65] X. Zhuan and X. Xia, Speed regulation with measured output feedback in the control of heavy haul trains, *Automatica* 44 (2008), pp. 242-247.

[J66] X. Xia and J. Zhang, Geometric characterization on the solvability of regulator equations, *Automatica* 44 (2008), pp. 445-450.

**[J67] X. Xia, G. Chen, R. Gai and AS. Zinober, Periodicity in Delta-modulated feedback control, *J Control Theory Appl* 2008 6 (1) pp. 37-44.**

[J68] S. Bowong and X. Xia, Robust synchronization of a class of nonlinear systems: applications to chaotic coupled electromechanical systems, *Journal of Vibration and Control*, 14 (4), 2008, pp. 531-551.

[J69] X. Liang, J. Zhang and X. Xia, Improving the security of chaotic synchronization with a Delta-modulated cryptographic technique, *IEEE Transactions on Circuits and Systems II*, vol. 55 (7), July 2008, pp. 680-684.

[J70] X. Liang, J. Zhang and X. Xia, Adaptive synchronization for generalized Lorenz systems, *IEEE Transactions on Automatic Control*, Vol. 53, No. 7, August 2008, pp. 1740-1746.

[J71] Y. Shen and X. Xia, Semi-global finite-time observers for nonlinear systems, *Automatica* 44 (2008), pp. 3152-3156.

[J72] X. Zhuan, G. Zheng, and X. Xia, A modelling methodology for natural dam-river network systems, *Control Engineering Practice* 17 (2009), pp. 534-540.

[J73] A. Middelberg, J. Zhang and X. Xia, An optimal control model for load shifting – With application in the energy management of a colliery, *Applied Energy*, 86 (2009), pp. 1266-1273.

[J74] A.M. Elaiw and X. Xia, HIV dynamics: analysis and robust multirate MPC-based treatment schedules, *J. Math. Anal. Appl.* 359 (2009), pp. 285-301.

[J75] S. Zhang and X. Xia, Optimal control of operation efficiency of belt conveyor systems, *Applied Energy*, 87 (2010), pp. 1929-1937.

[J76] X. Xia and A. M. Elaiw, Optimal dynamic economic dispatch of generation: a review, *Electric Power Systems Research* 80 (2010), pp. 975-986.

[J77] X. Zhuan and X. Xia, Fault-tolerant control of heavy-haul trains, *Vehicle System Dynamics*, vol. 48, no. 6, June 2010, pp. 705-735.

[J78] X Xia and J Zhang, Geometric steady states of nonlinear systems, *IEEE Transactions on Automatic Control*, vol. 55, no. 6, June 2010, pp. 1448-1454.

[J79] J. Zhang, CH. Moog, and X. Xia, Realization of multivariable nonlinear systems via the approach of differential forms and differential algebra, *Kybernetika*, vol. 46 (2010), no. 5, pp. 799-830.

[J80] H. Miao, X. Xia, AS. Perelson and H. Wu, On identifiability of nonlinear ODE models and applications in viral dynamics, *SIAM Review*, Vol. 53, No. 1, 3-39, 2011.

**[J81] X. Xia and J. Zhang, Modelling and control of heavy haul trains, *IEEE Control Systems Magazine*, vol. 31, no. 4, August 2011, pp. 18-31.**

**[J82] X. Xia, J. Zhang and A. Elaiw, An application of model predictive control to the dynamic economic dispatch of power generation, *Control Engineering Practice*, 19 (2011), pp. 638-648.**

[J83] J. Zhang and X. Xia, A model predictive control approach to the periodic implementation of the solutions of the optimal dynamic resource allocation problem, *Automatica* 47 (2011), pp. 358-362.

[J84] W. Badenhorst, J. Zhang & X. Xia, Optimal hoist scheduling of a deep level mine twin rock winder system for demand side management, *Electric Power Systems Research* 81 (2011), pp. 1088-1095.

[J85] S. Zhang and X. Xia, Modeling and energy efficiency optimization of belt conveyors, *Applied Energy* 88 (2011), pp. 3061-3071.

[J86] A. J. van Staden, J. Zhang and X. Xia, A model predictive control strategy for load shifting in a water pumping scheme with maximum demand charges, *Applied Energy* 88 (2011), pp. 4785- 4794.

[J87] M. Elaiwe, X. Xia and A. M. Shehata, Application of model predictive control to optimal dynamic dispatch of generation with emission limitations, *Electric Power Systems Research* 84 (2012), pp. 31-44.

[J88] H. Zhang, X. Xia and J. Zhang, Optimal sizing and operation of pumping systems to achieve energy efficiency and load shifting, *Electric Power Systems Research* 86 (2012), pp. 41-50.

**[J89] X. Xia, J. Zhang and W. Cass, Energy management of commercial buildings - A case study from a POET perspective of energy efficiency, *Journal of Energy in Southern Africa*, vol 23, no 1, February 2012, pp. 23-31.**

[J90] U.E. Ekpenyong, J. Zhang and X. Xia, An improved robust model for generator maintenance scheduling, *Electric Power Systems Research* 92 (2012), pp. 29-36.

[J91] M. Siewe Siewe and X. Xia, Nonlinear dynamics and small damping signal control of chaos in a model of flow-induced oscillations of cylinders, *Mechanics Research Communications*, 46 (2012), pp. 8-14.

[J92] H. Yu and X. Xia, Adaptive consensus of multi-agents in networks with jointly connected topologies, *Automatica* 48 (2012), pp. 1783-1790.

[J93] A. M. Elaiw, X. Xia and A. M. Shehata, Dynamic economic dispatch using hybrid DE-SQP for generating units with valve-point effects, *Mathematical Problems in Engineering*, vol. 2012, Article ID 184986, 10 pages, doi:10.1155/2012/184986.

[J94] X. Ye, X. Xia, J. Zhang and Y. Chen, Effects of trends and seasonalities on robustness of the Hurst parameter estimators, *IET Signal Processing*, vol. 6, no. 9, 2012, pp. 849-856.

[J95] X. Zhuan and X. Xia, Optimal operation scheduling of a pumping station with multiple pumps, *Applied Energy* 104 (2013), pp. 250-257.

[J96] E. Malatji, J. Zhang and X. Xia, A multiple objective optimisation model for building energy efficiency investment decision, *Energy and Buildings* 61 (2013), pp. 81-87.

[J97] Y. Li, Y. Shen and X. Xia, Global finite-time observers for a class of nonlinear systems, *Kybernetika* 49 (2013), no. 2, pp. 319-340.

[J98] A. M. Elaiw, X. Xia and A. M. Shehata, Minimization of fuel costs and gaseous emissions of electric power generation by model predictive control, *Mathematical Problems in Engineering*, vol. 2013, article ID 906958, 15 pages.

[J99] Y. Li, X. Xia and Y. Shen, A high-gain-based global finite-time nonlinear observer, *International Journal of Control*, vol. 86, no. 5, 2013, pp. 759-767.

**[J100] X. Xia and J. Zhang, Mathematical description of measurement and verification of energy efficiency improvement, *Applied Energy* 111 (2013), pp. 247-256.**

[J101] X. Zhuan and X. Xia, Development of efficient model predictive control strategy for cost-optimal operation of a water pumping station, *IEEE Transactions on Control Systems Technology*, vol. 21, no. 4, July 2013, pp. 1449-1454.

[J102] A. M. Elaiw, X. Xia and A. M. Shehata, Hybrid DE-SQP and hybrid PSO-SQP methods for solving dynamic economic emission dispatch problem with valve-point effects, *Electric Power Systems Research* 103 (2013), pp. 192-200.
[J103] N. Wang, J. Zhang and X. Xia, Energy consumption of air conditioners at different temperature set points, *Energy and Buildings* 65 (2013), pp. 412-418.
[J104] H. Tazvinga, X. Xia and J. Zhang, Minimum cost solution of photovoltaic-diesel-battery hybrid power systems for remote consumers, *Solar Energy* 96 (2013), pp. 292-299.
[J105] H. Yu, Y. Shen and X. Xia, Adaptive finite-time consensus in multi-agent networks, *Systems and Control Letters* 62 (2013), pp. 880-889.
[J106] A. M. Elaiw, X. Xia and A. M. Shehata, Hybrid DE-SQP method for solving combined heat and power dynamic economic dispatch problem, *Mathematical Problems in Engineering*, Volume 2013, Article ID 982305, 7 pages, http://dx.doi.org/10.1155/2013/982305.
[J107] N. Wang, J. Zhang and X. Xia, Desiccant wheel thermal performance modeling for indoor humidity optimal control, *Applied Energy* 112 (2013), pp. 999-1005.
[J108] X. Ye, X. Xia and J. Zhang, Optimal sampling plan for clean development mechanism energy efficiency lighting projects, *Applied Energy* 112 (2013), pp. 1006-1015.
[J109] A. M. Elaiw, X. Xia and A.M. Shehata, Combined heat and power dynamic economic dispatch with emission limitations using hybrid DE-SQP method, *Abstract and Applied Analysis* Volume 2013, Article ID 120849, 10 pages http://dx.doi.org/10.1155/2013/120849.
[J110] K. M. Abo-Al-Ez, A. Elaiw and X. Xia, A dual-loop model predictive voltage control/sliding-mode current control for voltage source inverter operation in smart microgrids, *Electric Power Components and Systems*, 42(3-4), 2014, pp. 348-360.
[J111] L. Zhang, X. Xia and J. Zhang, Improving energy efficiency of cyclone circuits in coal beneficiation plants by pump-storage systems, *Applied Energy* 119 (2014), pp. 306-313.
[J112] Y. Shen and X. Xia, Adaptive parameter estimation for an energy model of belt conveyor with DC motor, *Asian Journal of Control*, vol. 16, no. 3, May 2014, pp. 1-11.
[J113] S. Qu, X. Xia and J. Zhang, Dynamics of discrete-time sliding-mode-control uncertain systems with a disturbance compensator, *IEEE Transactions on Industrial Electronics*, vol. 61, no. 7, July 2014, pp. 3502-3510.
[J114] B.P. Numbi, J. Zhang, and X. Xia, Optimal energy management for a jaw crushing process in deep mines, *Energy* 68 (2014), pp. 337-348.
[J115] H. Carstens, X. Xia, and X. Ye, Improvements to longitudinal clean development mechanism sampling designs for lighting retrofit projects, *Applied Energy* 126 (2014), pp. 256-265.
[J116] J. Yan, SK. Chou, U. Desideri and X. Xia, Innovative and sustainable solutions of clean technologies and policies (Part I), editorial, *Applied Energy* 130 (2014), pp. 447-449.
[J117] D. Setlhaolo, X. Xia and J. Zhang, Optimal scheduling of household appliances for demand response, *Electric Power Systems Research* 116 (2014), pp. 24-28.
[J118] T. Mathaba, X. Xia, and J. Zhang, Analysing the economic benefit of electricity price forecast in industrial load scheduling, *Electric Power Systems Research* 116 (2014), pp. 158-165.
[J119] B. Wang, X. Xia, and J. Zhang, A multi-objective optimization model for the life-cycle cost analysis and retrofitting planning of buildings, *Energy and Buildings* 77 (2014), pp. 227-235.
[J120] P. Miao, Y. Shen and X. Xia, Finite time dual neural networks with a tunable activation function for solving quadratic programming problems and its application, *Neurocomputing* 143 (2014), pp. 80-89.
[J121] H. Tazvinga, B. Zhu and X. Xia, Energy dispatch strategy for a photovoltaic-wind-diesel-battery hybrid power system, *Solar Energy* 108 (2014), pp. 412-420.
[J122] S. Qu, X. Xia and J. Zhang, Dynamical behaviors of an Euler discretized sliding mode control systems, *IEEE Transactions on Automatic Control*, vol. 59, no. 9, September 2014, pp. 2525 - 2529.
[J123] P. S. Rivadeneira, C. H. Moog, G-B. Stan, V. Costanza, C. Brunet, F. Raffi, V. Ferre , M.J. Mhawej, F. Biafore, D. A. Ouattara, D. Ernst, R. Fonteneau, and X. Xia, Mathematical modeling of HIV dynamics after antiretroviral therapy initiation: a clinical research study, *Aids Research and Human Retroviruses*, vol. 30, no. 9, 2014, pp. 831-834.
[J124] U. E. Ekpenyonga, J. Zhang, and X. Xia, Mathematical modelling for the social impact to energy efficiency savings, *Energy and Buildings* 84 (2014), pp. 344-351.
[J125] J. Yan, SK. Chou, U. Desideri and X. Xia, Innovative and sustainable solutions of clean technologies and policies (Part II), editorial, *Applied Energy* 136 (2014), pp. 756-758.
[J126] X. Ye, X. Xia and J. Zhang, Optimal sampling plan for clean development mechanism lighting projects with lamp population decay, *Applied Energy* 136 (2014), pp. 1184-1192.
[J127] P. S. Rivadeneira, C. H. Moog, G-B. Stan, C. Brunet, F. Raffi, V. Ferre , V. Costanza, M.J. Mhawej, F. Biafore, D. A. Ouattara, D. Ernst, R. Fonteneau, and X. Xia, Mathematical modeling of HIV dynamics after

antiretroviral therapy initiation: a review, *BioResearch Open Access*, vol. 3, no. 5, October 2014, doi: 10.1089/biores.2014.0024.
[J128] Z. Wu and X. Xia, Optimal motion planning for overhead cranes, *IET Control Theory & Applications*, vol. 8, no. 17, 20 November 2014, pp. 1833-1842.
**[J129] X. Xia and J. Zhang, Operation efficiency optimisation modelling and application of model predictive control, *IEEE/CAA Journal of Automatica Sinica*, vol. 2, no. 2, April 2015, pp. 166-172.**
[J130] N. I. Nwulu and X. Xia, Multi-objective dynamic economic emission dispatch of electric power generation integrated with game theory based demand response programs, *Energy Conversion and Management* 89 (2015), pp. 963-974.
[J131] Z. Wu, X. Xia and B. Wang, Improving building energy efficiency by multi objective neighbourhood field optimization, *Energy and Buildings* 87 (2015), pp. 45-56.
[J132] X. Ye, X. Xia, L. Zhang and B. Zhu, Optimal maintenance planning for sustainable energy efficiency lighting retrofit projects by a control system approach, *Control Engineering Practice* 37 (2015), pp. 1-10.
[J133] Z. Wu and X. Xia, Optimal switching renewable energy system for demand side management, *Solar Energy* 114 (2015), pp. 278-288.
[J134] A. Chatterjee, L. Zhang and X. Xia, Optimization of mine ventilation fan speeds according to ventilation on demand and time of use tariff, *Applied Energy* 146 (2015), pp. 65-73.
[J135] SM. Sichilalu and X. Xia, Optimal energy control of grid tied PV–diesel–battery hybrid system powering heat pump water heater, *Solar Energy* 115 (2015), pp. 243-254.
[J136] D. Setlhaolo and X. Xia, Optimal scheduling of household appliances with a battery storage system and coordination, *Energy and Buildings* 94 (2015), pp. 61-70.
[J137] Z. Wu, H. Tazvinga and X. Xia, Demand side management of photovoltaic-battery hybrid system, *Applied Energy* 148 (2015), pp. 294-304.
[J138] B. Wang and X. Xia, Optimal maintenance planning for building energy efficiency retrofitting from optimization and control system perspectives, *Energy and Buildings* 96 (2015), pp. 299-308.
[J139] B.P. Numbi and X. Xia, Systems optimization model for energy management of a parallel HPGR crushing process, *Applied Energy* 149 (2015), pp. 133-147.
[J140] L. Zhang, X. Xia and J. Zhang, Medium density control for coal washing dense medium cyclone circuits, *IEEE Transactions on Control Systems Technology*, vol. 23, no. 3, May 2015, pp. 1117-1122.
[J141] B. Zhu, H. Tazvinga and X. Xia, Switched model predictive control for energy dispatching of a photovoltaic-diesel-battery hybrid power system, *IEEE Transactions on Control Systems Technology*, vol. 23, no. 3, May 2015, pp. 1229-1236.
[J142] Z. Wu, X. Xia and B. Zhu, Model predictive control for improving operational efficiency of overhead cranes, *Nonlinear Dynamics* (2015) 79: pp. 2639-2657.
[J143] SM. Sichilalu and X. Xia, Optimal power dispatch of a grid tied-battery-photovoltaic system supplying heat pump water heaters, *Energy Conversion and Management* 102 (2015), pp. 81-91.
[J144] H. Tazvinga, B. Zhu and X. Xia, Optimal power flow management for distributed energy resources with batteries, *Energy Conversion and Management* 102 (2015), pp. 104-110.
[J145] U.E. Ekpenyonga, J. Zhang and X. Xia, How information propagation in social networks can improve energy savings based on time of use tariff, *Sustainable Cities and Society* 19 (2015), pp. 26-33.
[J146] N. I. Nwulu and X. Xia, Implementing a model predictive control strategy on the dynamic economic emission dispatch problem with game theory based demand response programs, *Energy* 91 (2015), pp. 404-419.
[J147] N. I. Nwulu and X. Xia, A combined dynamic economic emission dispatch and time of use demand response mathematical modelling framework, *Journal of Renewable and Sustainable Energy* 7, 043134 (2015); doi: 10.1063/1.4928875.
[J148] E.M. Wanjiru and X. Xia, Energy-water optimization model incorporating rooftop water harvesting for lawn irrigation, *Applied Energy* 160 (2015), pp. 521-531.
[J149] T. Mathaba and X. Xia, A parametric energy model for energy management of long belt conveyors, *Energies* 2015, 8(12), 13590-13608; doi:10.3390/en81212375
[J150] Q. Cheng, S. Ning, X. Xia and F. Yang, Modelling of coal trade process for the logistics enterprise and its optimisation with stochastic predictive control, *International Journal of Production Research*, vol. 54, no. 8, 2016, pp. 2241-2259, DOI:10.1080/00207543.2015.1062568
[J151] S. Ntsaluba, B. Zhu and X. Xia, Optimal flow control of a forced circulation solar water heating system with energy storage units and connecting pipes, *Renewable Energy* 89 (2016), pp. 108-124.
[J152] X. Ye and X. Xia, Optimal metering plan for measurement and verification on a lighting case study, *Energy* 95 (2016), pp. 580-592.
[J153] D. Setlhaolo and X. Xia, Combined residential demand side management strategies with coordination and economic analysis, *Electrical Power and Energy Systems* 79 (2016), pp. 150-160.

[J154] B.P. Numbi and X. Xia, Optimal energy control of a crushing process based on vertical shaft impactor, *Applied Energy* 162 (2016), pp. 1653-1661.
[J155] B. Zhu, X. Xia and Z. Wu, Evolutionary game theoretic demand-side management and control for a class of networked smart grid, *Automatica* 70 (2016), pp. 94–100.
[J156] Z. Wu, B. Wang and X. Xia, Large-scale building energy efficiency retrofit: concept, model and control, *Energy* 109 (2016), pp. 456-465.
[J157] S. Sichilalu, H. Tazvinga and X. Xia, Optimal control of a fuel cell/wind/PV/grid hybrid system with thermal heat pump load, *Solar Energy* 135 (2016), pp. 59-69.
[J158] D. Zhang, Y. Shen and X. Xia, Globally uniformly ultimately bounded observer design for a class of nonlinear systems with sampled and delayed measurements, *Kybernetika*, vol. 52, no. 3, 2016, pp. 441-460.
[J159] E. M. Wanjiru, L. Zhang and X. Xia, Model predictive control strategy of energy-water management in urban households, *Applied Energy* 179 (2016), pp. 821-831.
[J160] L. Mokgonyana, J. Zhang, L. Zhang and X. Xia, Coordinated two-stage volt/var management in distribution networks, *Electric Power Systems Research* 141 (2016), pp. 157-164.
[J161] B. Zhu and X. Xia, Lyapunov-based adaptive model predictive control for unconstrained non-linear systems with parametric uncertainties, *IET Control Theory Appl*., 2016, vol. 10, no. 15, pp. 1937-1943.
[J162] B. Zhu and X. Xia, Adaptive model predictive control for unconstrained discrete-time linear systems with parametric uncertainties, *IEEE Transactions on Automatic Control*, vol. 61, no. 10, Oct., 2016, pp. 3171-3176.
**[J163] X. Xia and L. Zhang, Industrial energy systems in view of energy efficiency and operation control, *Annual Reviews in Control* 42 (2016), pp. 299-308.**
[J164] Y. Shen, D. Zhang and X. Xia, Continuous output feedback stabilization for nonlinear systems based on sampled and delayed output measurements, *Int. J. Robust Nonlinear Control*, vol. 26, 2016, pp. 3075-3087.
[J165] L. Zhang and X. Xia, Control of industrial energy systems: mining industry as a case study, *控制工程*, *Control Engineering of China*, vol. 23, no. 12, Dec., 2016, pp. 1891-1900.
[J166] N. Nwulu and X. Xia, Optimal dispatch for a microgrid incorporating renewables and demand response, *Renewable Energy* 101 (2017), pp. 16-28.
[J167] Y. Shen, D. Zhang and X. Xia, Continuous observer design for a class of multi-output nonlinear systems with multi-rate sampled and delayed output measurements, *Automatica* 75 (2017), pp. 127-132.
[J168] Z. Tu, H. Yu and X. Xia, Decentralized finite-time adaptive consensus of multiagent systems with fixed and switching network topologies, *Neurocomputing*, 219 (2017), pp. 59-67.
[J169] F. Wamalwa, S. Sichilalu and X. Xia, Optimal control of conventional hydropower plant retrofitted with a cascaded pumpback system powered by an on-site hydrokinetic system, *Energy Conversion and Management* 132 (2017), pp. 438-451.
[J170] S. Sichilalu, T. Mathaba and X. Xia, Optimal control of a wind-PV-hybrid powered heat pump water heater, *Applied Energy* 185 (2017), pp. 1173-1184.
[J171] H. Carstens, X. Xia and S. Yadavalli, Low-cost energy meter calibration method for measurement and verification, *Applied Energy* 188 (2017), pp. 563-575.
[J172] Y. Fan and X. Xia, A multi-objective optimization model for energy-efficiency building envelope retrofitting plan with rooftop PV system installation and maintenance, *Applied Energy* 189 (2017), pp. 327-335.
[J173] B. Wang, Z. Wu and X. Xia, A multistate-based control system approach toward optimal maintenance planning, *IEEE Transactions on Control Systems Technology*, vol. 25, no. 1, January 2017, pp. 374-381.
[J174] M. Michael, L. Zhang and X. Xia, An optimal model for a building retrofit with LEED standard as reference protocol, *Energy and Buildings*, 139 (2017), pp. 22-30.
[J175] F. Yang and X. Xia, Techno-economic and environmental optimization of a household photovoltaic-battery hybrid power system within demand side management, *Renewable Energy*, 108 (2017), pp. 132-143.
[J176] J. Mei and X. Xia, Energy-efficient predictive control of indoor thermal comfort and air quality in a direct expansion air conditioning system, *Applied Energy* 195 (2017), pp. 439-452.
[J177] H. Yu and X. Xia, Adaptive leaderless consensus of agents in jointly connected networks, *Neurocomputing*, 241 (2017), pp. 64-70.
[J178] T. Mathaba and X. Xia, Optimal and energy efficient operation of conveyor belt systems with downhill conveyors, *Energy Efficiency* (2017) 10: 405-417, doi 10.1007/s12053-016-9461-8.
[J179] H. Carstens, X. Xia, S. Yadavalli and A. Rajan, Efficient longitudinal population survival survey sampling for the measurement and verification of lighting retrofit projects, *Energy and Buildings* 150 (2017), pp. 163-176.
[J180] E. Wanjiru and X. Xia, Optimal energy-water management in urban residential buildings through grey water recycling, *Sustainable Cities and Society*, 32 (2017), pp. 654-668.
[J181] E.M. Wanjiru, S.M. Sichilalu and X. Xia, Optimal control of heat pump water heater-instantaneous shower using integrated renewable-grid energy systems, *Applied Energy*, 201 (2017), pp. 332-342.

[J182] O. Dzobo and X. Xia, Optimal operation of smart multi-energy hub systems incorporating energy hub coordination and demand response strategy, *Journal of Renewable and Sustainable Energy* 9 (4) 045501, 2017.

[J183] F. Chen, H. Yu and X. Xia, Output consensus of multi-agent systems with delayed and sampled-data, *IET Control Theory and Applications*, 11 (5) (2017), pp. 632-639.

[J184] B. Zhu, K. Xia and X. Xia, Game-theoretic demand-side management and closed-loop control for a class of networked smart grid, *IET Control Theory and Applications*, 11 (13) (2017), pp. 2170-2176.

[J185] H. Carstens, X. Xia and S.Yadavalli, Efficient metering and surveying sampling designs in longitudinal Measurement and Verification for lighting retrofit, *Energy and Buildings* 154 (2017), pp. 430-447.

[J186] E. Wanjiru, S. Sichilalu and X. Xia, Model predictive control of heat pump water heater-instantaneous shower powered with integrated renewable-grid energy systems, *Applied Energy*, 204 (2017), pp. 1333-1346.

[J187] F. Barzegar, A. Bello, J. K. Dangbegnon, N. Manyala and X. Xia, Asymmetric supercapacitor based on activated expanded graphite and pinecone tree activated carbon with excellent stability, *Applied Energy*, 207 (2017), pp. 417-426.

[J188] Z. Olinga, X. Xia and X. Ye, A cost-effective approach to handle measurement and verification uncertainties of energy savings, *Energy* 141 (2017), pp. 1600-1609.

[J189] L. Zhang, X. Xia and B. Zhu, A dual-loop control system for dense medium coal washing processes with sampled and delayed measurements, *IEEE Transactions on Control Systems Technology*, vol. 25, no. 6, November 2017, pp. 2211-2218.

**[J190] X. Xia, Control problems in building energy retrofit and maintenance planning, *Annual Reviews in Control*, vol. 44, 2017, pp. 78-88.**

[J191] E. Wanjiru and X. Xia, Sustainable energy-water management for residential houses with optimal integrated grey and rain water recycling, *Journal of Cleaner Production* 170 (2018), pp. 1151-1166.

[J192] H. Carstens, X. Xia and S. Yadavalli, Measurement uncertainty in energy monitoring: present state of the art, *Renewable and Sustainable Energy Reviews*, 82 (2018), pp. 2791-2805.

[J193] H. Carstens, X. Xia and S. Yadavalli, Bayesian energy measurement and verification analysis, *Energies* 2018, 11, 380; doi:10.3390/en11020380.

[J194] Q. Li, Z. Wu and X. Xia, Estimate and characterize PV power at demand-side hybrid system, *Applied Energy* 218 (2018), pp. 66-77.

[J195] Y. Fan and X. Xia, Energy-efficiency building retrofit planning for green building compliance, *Building and Environment* 136 (2018), pp. 312-321.

[J196] J. Mei, X. Xia and M. Song, An autonomous hierarchical control for improving indoor comfort and energy efficiency of a direct expansion air conditioning system, *Applied Energy*, 221 (2018), pp. 450-463.

[J197] J. Yan, H. Yu and X. Xia, Distributed optimization of multi-agent systems with delayed sampled-data, *Neurocomputing*, 296 (2018), pp. 100-108.

[J198] C. Kagiri, E. M. Wanjiru, L. Zhang and X. Xia, Optimized response to electricity time-of-use tariff of a compressed natural gas fuelling station, *Applied Energy*, 222 (2018), pp. 244-256.

[J199] Z. Wu and X. Xia, Tariff-driven demand side management of green ship, *Solar Energy* 170 (2018), pp. 991-1000.

[J200] L. Zhang, M. Chennells and X. Xia, A power dispatch model for a ferrochrome plant heat recovery cogeneration system, *Applied Energy* 227 (2018), pp. 180-189.

[J201] Y. Fan and X. Xia, Building retrofit optimization models using notch test data considering energy performance certificate compliance, *Applied Energy* 228 (2018), pp. 2140-2152.

[J202] M. S. Masaki, L. Zhang and X. Xia, A design approach for multiple drive belt conveyors minimizing life cycle costs, *Journal of Cleaner Production* 201 (2018), pp. 526-541.

[J203] Z Wu, K. Zhao and X Xia, Lighting retrofit and maintenance models with decay and adaptive control, *IET Control Theory & Applications*, vol. 12, no. 5, 2018, pp. 593-600.

[J204] F. Barzegar, L. Zhang, A. Bello, N. Manyala and X. Xia, Three dimension modeling of the components in supercapacitors for proper understanding and contribution of each parameter to the final electrochemical performance, *Journal of Materials Chemistry A*, 2018, DOI: 10.1039/C8TA04736G

[J205] B. Zhu, Z. Ren, W. Xie, F. Guo and X. Xia, Active nonlinear partial-state feedback control of contacting force for a pantograph-catenary system, *ISA Transactions*, 91, 2019, pp. 78-89. https://doi.org/10.1016/j.isatra.2019.01.033

[J206] M. S. Masaki, L. Zhang and X. Xia, A hierarchical predictive control for supercapacitor-retrofitted grid-connected hybrid renewable systems, *Applied Energy*, 242 (2019), pp. 393-402.

[J207] C. Kagiri, L. Zhang and X. Xia, A hierarchical optimisation of a compressed natural gas station for energy and fuelling efficiency under a demand response program, *Energies* 2019, 12, 2165; doi: 10.3390/en12112165.

[J208] B. Wang, Y. Li, F. Yang, and X. Xia, A competitive swarm optimizer-based technoeconomic optimization with appliance scheduling in domestic PV-battery hybrid systems, *Complexity*, vol. 2019 |Article ID 4824837 | https://doi.org/10.1155/2019/4824837
[J209] J. Mei and X. Xia, Distributed control for a multi-evaporator air conditioning system, *Control Engineering Practice*, vol. 90, 2019, pp. 85 -100.
[J210] B. Zhu, Z. Zheng, and X. Xia, Constrained adaptive model predictive control for a class of discrete-time linear systems with parametric uncertainties, *IEEE Transactions on Automatic Control*, 65 (5), 2020, pp. 2223-2229.
[J211] L. Zhang, X. Ye, X. Xia, and F. Barzegar, A real-time energy management and speed controller for an electric vehicle powered by a hybrid energy storage system, *IEEE Transactions on Industrial Informatics*, vol. 16, no. 10, pp. 6272–6280, 2020.
[J212] A. Ikuzwe, X. Ye, and X. Xia, Energy-maintenance optimization for retrofitted lighting system incorporating luminous flux degradation to enhance visual comfort, *Applied Energy*, vol. 261, p. 114379, 2020. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S0306261919320665
[J213] D. L. Rodrigues, X. Ye, X. Xia, and B. Zhu, Battery energy storage sizing optimisation for different ownership structures in a peer-to-peer energy sharing community, *Applied Energy*, vol. 262, p. 114498, 2020. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S0306261920300106
[J214] D. Lin, L. Zhang, and X. Xia, Hierarchical model predictive control of Venlo-type greenhouse climate for improving energy efficiency and reducing operating cost, *Journal of Cleaner Production*, vol. 264, p. 121513, 2020. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S0959652620315602
[J215] A. Ikuzwe, X. Xia, and X. Ye, Maintenance optimization incorporating lumen degradation failure for energy-efficient lighting retrofit projects, *Applied Energy*, vol. 267, p. 115003, 2020. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S0306261920305158
[J216] B. Wang, X. Xia, Z. Cheng, and L. Liu, Optimal maintenance planning in building retrofitting with interacting energy effects, *Optimal Control Applications and Methods*, vol. 41, no. 6, Nov. 2020, pp. 2023–2036. [Online]. Available: https://onlinelibrary.wiley.com/doi/10.1002/oca.2593
[J217] Y. Li, H. Yu and X. Xia, Distributed event-triggered output feedback $H_\infty$ control for multi-agent systems with transmission delays, *IET Control Theory & Applications*, 2021, doi: 10.1049/cth2.12148.
[J218] F. Barzegar, V. Pavlenko, M. Zahid, A. Bello, X. Xia, N. Manyala, K. I. Ozoemena and Q. Abbas, Tuning the nanoporous structure of carbons derived from the composite of cross-linked polymers for charge storage applications, *ACS Appl. Energy Mater.* 4, 2, 2021, pp. 1763-1773.
[J219] Z.Wu, Q. Li, and X. Xia, Multi-timescale forecast of solar irradiance based on multitask learning and echo state network approaches, *IEEE Transactions on Industrial Informatics*, vol. 17, no. 1, 2021, pp. 300-310.
[J220] L. Zhang, A. Njepu and X. Xia, Minimum cost solution to residential energy-water nexus through rainwater harvesting and greywater recycling, *Journal of Cleaner Production*, 298 (2021), p. 126742.
[J221] D. Lin, L. Zhang and X. Xia, Model predictive control of a Venlo-type greenhouse system considering electrical energy, water and carbon dioxide consumption, *Applied Energy*, 298 (2021), p. 117163.
[J222] C. Sanama and X. Xia, Transient state modelling and experimental investigation of the thermal behavior of a vapor compression system, *Mathematical Problems in Engineering*, vol. 2021, Article ID 994151, 14 pages, doi.org/10.1155/9941451
[J223] D. M. Bajany, L. Zhang, Y. Xu and X. Xia, Optimisation approach toward water management and energy security in arid/semiarid regions, *Environmental Process* (2021) 8: 1455-1488. https://doi.org/10.1007/s40710-021-00537-9
[J224] T. Kunatsa and X. Xia, Co-digestion of water hyacinth, municipal solid waste and cow dung: a methane optimized biogas-liquid petroleum gas hybrid system, *Applied Energy* 304 (2021) 117716. https://doi.org/10.1016/j.apenergy.2021.117716
[J225] T. Kunatsa and X. Xia, A review on anaerobic digestion with focus on the role of biomass co-digestion, modelling and optimization on biogas production and enhancement, *Bioresource Technology* 344 (2022) 126311. https://doi.org/10.1016/j.biortech.2021.126311
[J226] C. Sanama and X. Xia, Modelling and experimental investigation of a vapor compression system under steady state regime, *International Journal of Mechanical Engineering and Robotics Research*, vol. 11, no. 2, February 2022, pp. 114-122. https://doi:10.18178/ijmerr.11.2.114-122
[J227] T. Tsoka, X. Ye, Y. Chen, D. Gong and X. Xia, Explainable artificial intelligence for building energy performance certificate labelling classification, *Journal of Cleaner Production* 355 (2022) 131626.
[J228] Y. Zhao, H. Yu and X. Xia, Event-triggered adaptive control of multi-agent systems with saturated input and partial state constraints, *Journal of the Franklin Institute*, 359 (2022) 3333-3365.
[J229] Y. Zhao, H. Yu and X. Xia, Event-triggered adaptive consensus for stochastic multi-agent systems with saturated input and partial state constraints, *Information Sciences* 603 (2022) 16-41.

[J230] T. Kunatsa, L. Zhang, and X. Xia, Biogas potential determination and production optimisation through optimal substrate ratio feeding in co-digestion of water hyacinth, municipal solid waste and cow dung, *Biofuels*, 2022， vol. 13, no. 5, 631-641. [Online]. Available: https://doi.org/10.1080/17597269.2020.1835452

[J231] Z. Ren, Y. Dong, D. Lin, L. Zhang, Y. Fan and X. Xia, Managing energy-water-carbon-food nexus for cleaner agricultural greenhouse production: A control system approach, *Science of the Total Environment*, 848 (2022), 157756.

[J232] M. Masaki, L. Zhang and X. Xia, Fuzzy logic control of plug-in supercapacitor storage for thermoelectric management of batteries, *Renewable Energy Focus*, 43 (2022) 59-73.

[J233] C. Sanama, X. Xia and M. Nguepnang, PID-MPC implementation on a chiller-fan coil unit, *Journal of Mathematics*, vol. 2022, 8405361. https://doi.org/10.1155/2022/8405361

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