

Alexander L Zuyev

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

439
citations

933264

10
h-index

794469

19
g-index

68
all docs

68
docs citations

68
times ranked

220
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Observer design for a flexible structure with distributed and point sensors. Proceedings of the Institute of Applied Mathematics and Mechanics NAS of Ukraine, 2022, 35, 125-136. | 0.0 | 1 |
| 2 | Stabilization of Crystallization Models Governed by Hyperbolic Systems. SEMA SIMAI Springer Series, 2021, , 123-135. | 0.4 | 0 |
| 3 | On the Eigenvalue Distribution for a Beam with Attached Masses. SEMA SIMAI Springer Series, 2021, , 43-56. | 0.4 | 5 |
| 4 | Analysis of Switching Strategies for the Optimization of Periodic Chemical Reactions with Controlled Flow-Rate. Springer Proceedings in Mathematics and Statistics, 2021, , 59-69. | 0.1 | 0 |
| 5 | On the orbital stability of periodic trajectories of a class of discontinuous systems. Proceedings in Applied Mathematics and Mechanics, 2021, 21, . | 0.2 | 0 |
| 6 | Extremum Seeking Approach for Nonholonomic Systems with Multiple Time Scale Dynamics. IFAC-PapersOnLine, 2020, 53, 5392-5398. | 0.5 | 1 |
| 7 | Partial stabilization of nonholonomic systems with application to multi-agent coordination. , 2020, , . | | 1 |
| 8 | Mathematical control theory: nonlinear dynamics and engineering applications. Visnik Nacional Noi Akademii Nauk Ukraini, 2020, , 29-27. | 0.0 | 0 |
| 9 | On stabilization of nonlinear systems with drift by time-varying feedback laws. , 2019, , . | | 4 |
| 10 | On exponential stabilization of nonholonomic systems with time-varying drift. IFAC-PapersOnLine, 2019, 52, 156-161. | 0.5 | 0 |
| 11 | Partial stabilization of stochastic systems with application to rotating rigid bodies. IFAC-PapersOnLine, 2019, 52, 162-167. | 0.5 | 3 |
| 12 | Partial Stability Concept in Extremum Seeking Problems. IFAC-PapersOnLine, 2019, 52, 682-687. | 0.5 | 5 |
| 13 | Optimal periodic control of nonlinear chemical reactions with a time-varying flow rate. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900146. | 0.2 | 1 |
| 14 | Stabilization of underactuated nonlinear systems to non-feasible curves. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900160. | 0.2 | 0 |
| 15 | Periodic switching strategies for an isoperimetric control problem with application to nonlinear chemical reactions. Applied Mathematical Modelling, 2019, 69, 287-300. | 2.2 | 21 |
| 16 | Stabilization of non-admissible curves for a class of nonholonomic systems. , 2019, , . | | 2 |
| 17 | On extremum seeking controllers based on the Lie bracket approximation in domains with obstacles. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800298. | 0.2 | 4 |
| 18 | Obstacle Avoidance Problem for Second Degree Nonholonomic Systems. , 2018, , . | | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling and Stabilization of a Rotating Mechanical System with Elastic Plates. IFAC-PapersOnLine, 2018, 51, 493-498. | 0.5 | 0 |
| 20 | A family of extremum seeking laws for a unicycle model with a moving target: theoretical and experimental studies. , 2018, , . | | 4 |
| 21 | Control design for a 2 nd -order hyperbolic system with application to preferential crystallization. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800455. | 0.2 | 1 |
| 22 | On a class of generating vector fields for the extremum seeking problem: Lie bracket approximation and stability properties. Automatica, 2018, 94, 151-160. | 3.0 | 68 |
| 23 | Two-Point Problem for Systems Satisfying the Controllability Condition with Lie Brackets of the Second Order. Journal of Mathematical Sciences, 2017, 220, 301-317. | 0.1 | 0 |
| 24 | An isoperimetric optimal control problem for a non-isothermal chemical reactor with periodic inputs. Chemical Engineering Science, 2017, 161, 206-214. | 1.9 | 22 |
| 25 | Motion planning for control-affine systems satisfying low-order controllability conditions. International Journal of Control, 2017, 90, 2517-2537. | 1.2 | 18 |
| 26 | Extremum Seeking for Time-Varying Functions using Lie Bracket Approximations * *This work is supported in part by the Alexander von Humboldt Foundation, the Deutsche Forschungsgemeinschaft (EB 425/4-1), and the State Fund for Fundamental Research of Ukraine (F63-726).. IFAC-PapersOnLine, 2017, 50, 5522-5528. | 0.5 | 16 |
| 27 | Obstacle Avoidance Problem for Driftless Nonlinear Systems with Oscillating Controls. IFAC-PapersOnLine, 2017, 50, 10476-10481. | 0.5 | 8 |
| 28 | Motion planning problem with obstacle avoidance for step-2 bracket-generating systems. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 799-800. | 0.2 | 1 |
| 29 | Construction of a Lyapunov functional for a class of controlled population balance models. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 827-828. | 0.2 | 2 |
| 30 | Local steering problem for a class of control-affine systems with application to continuous crystallization processes. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 831-832. | 0.2 | 2 |
| 31 | Time-varying stabilization of a class of driftless systems satisfying second-order controllability conditions. , 2016, , . | | 8 |
| 32 | Exponential Stabilization of Nonholonomic Systems by Means of Oscillating Controls. SIAM Journal on Control and Optimization, 2016, 54, 1678-1696. | 1.1 | 38 |
| 33 | Reachable Sets of Quasilinear Hyperbolic Control Systems with Applications to Separation Processes. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 647-648. | 0.2 | 0 |
| 34 | Modelling and control of a shell structure based on a finite dimensional variational formulation. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 591-612. | 1.4 | 4 |
| 35 | Estimation of the Reachable Set for the Problem of Vibrating Kirchhoff Plate. Ukrainian Mathematical Journal, 2015, 66, 1639-1653. | 0.1 | 1 |
| 36 | Partial Stabilization and Control of Distributed Parameter Systems with Elastic Elements. Lecture Notes in Control and Information Sciences, 2015, , . | 0.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Attractors of nonlinear dynamical systems with a weakly monotone measure. Journal of Mathematical Analysis and Applications, 2015, 422, 559-570. | 0.5 | 10 |
| 38 | Stabilization of a Rotating Body with Euler-Bernoulli Beams. Lecture Notes in Control and Information Sciences, 2015, , 39-96. | 0.6 | 0 |
| 39 | Control and Stabilization of a Rotating Kirchhoff Plate. Lecture Notes in Control and Information Sciences, 2015, , 169-213. | 0.6 | 0 |
| 40 | Optimal Stabilization Problem With Minimax Cost in a Critical Case. IEEE Transactions on Automatic Control, 2014, 59, 2512-2517. | 3.6 | 7 |
| 41 | Optimal stabilization of nonlinear systems by an output feedback law in a critical case. , 2013, , . | | 0 |
| 42 | Asymptotic behavior of solutions of a nonlinear system in the critical case of pairs of purely imaginary eigenvalues. Nonlinear Analysis: Theory, Methods & Applications, 2013, 80, 156-178. | 0.6 | 8 |
| 43 | Approximate controllability of a rotating Kirchhoff plate model. , 2010, , . | | 3 |
| 44 | Approximate controllability and spillover analysis of a class of distributed parameter systems. , 2009, , . | | 2 |
| 45 | Application of the Return Method to the Steering of Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2009, , 83-91. | 0.6 | 2 |
| 46 | Localization of the limit set of trajectories of the Euler-Bernoulli equation with control. Ukrainian Mathematical Journal, 2008, 60, 199-210. | 0.1 | 0 |
| 47 | Stabilization and Observability of a Rotating Timoshenko Beam Model. Mathematical Problems in Engineering, 2007, 2007, 1-19. | 0.6 | 16 |
| 48 | Partial asymptotic stability of abstract differential equations. Ukrainian Mathematical Journal, 2006, 58, 709-717. | 0.1 | 7 |
| 49 | Observer design for a flexible manipulator model with a payload. , 2006, , . | | 9 |
| 50 | STABILIZATION OF A FLEXIBLE MANIPULATOR MODEL WITH PASSIVE JOINTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 784-789. | 0.4 | 9 |
| 51 | Partial asymptotic stabilization of nonlinear distributed parameter systems. Automatica, 2005, 41, 1-10. | 3.0 | 3 |
| 52 | Stabilizability conditions in terms of critical Hamiltonians and symbols. Systems and Control Letters, 2005, 54, 597-606. | 1.3 | 3 |
| 53 | Partial asymptotic stabilization of nonlinear distributed parameter systems. Automatica, 2005, 41, 1-10. | 3.0 | 78 |
| 54 | Control of a flexible manipulator within the framework of the Timoshenko beam model. International Applied Mechanics, 2005, 41, 1418-1425. | 0.2 | 1 |

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|----|---|-----|-----------|
| 55 | Control design for galerkin approximations of a flexible structure. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 311-318. | 0.4 | 1 |
| 56 | PARTIAL STABILIZATION OF A RIGID BODY WITH SEVERAL ELASTIC BEAMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 139-144. | 0.4 | 3 |
| 57 | The Synthesis of Stabilizing Control of a Rigid Body with Attached Elastic Elements. Journal of Automation and Information Sciences, 2002, 34, 10. | 0.7 | 1 |
| 58 | Motion planning and partial stabilization of infinite-dimensional systems. , 0, , . | | 1 |
| 59 | Controllability analysis of a rotating body with flexible beams. , 0, , . | | 0 |
| 60 | Control and stabilization of a rotating planar body with flexible attachments. , 0, , . | | 0 |
| 61 | Partial asymptotic stability and stabilization of nonlinear abstract differential equations. , 0, , . | | 8 |
| 62 | Observability of a flexible manipulator with a payload. , 0, , . | | 0 |