

John M Schmitt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6768277/publications.pdf>

Version: 2024-02-01

24
papers

751
citations

933410

10
h-index

996954

15
g-index

25
all docs

25
docs citations

25
times ranked

531
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Quantifying Dynamic Stability and Maneuverability in Legged Locomotion. Integrative and Comparative Biology, 2002, 42, 149-157. | 2.0 | 188 |
| 2 | Mechanical models for insect locomotion: dynamics and stability in the horizontal plane I. Theory. Biological Cybernetics, 2000, 83, 501-515. | 1.3 | 171 |
| 3 | Mechanical models for insect locomotion: dynamics and stability in the horizontal plane - II. Application. Biological Cybernetics, 2000, 83, 517-527. | 1.3 | 93 |
| 4 | Constrained Euler buckling: an interplay of computation and analysis. Computer Methods in Applied Mechanics and Engineering, 1999, 170, 175-207. | 6.6 | 70 |
| 5 | Running over unknown rough terrain with a one-legged planar robot. Bioinspiration and Biomimetics, 2011, 6, 026009. | 2.9 | 54 |
| 6 | Mechanical models for insect locomotion: stability and parameter studies. Physica D: Nonlinear Phenomena, 2001, 156, 139-168. | 2.8 | 36 |
| 7 | Bifurcations in the Mean Angle of a Horizontally Shaken Pendulum: Analysis and Experiment. Nonlinear Dynamics, 1998, 15, 1-14. | 5.2 | 28 |
| 8 | A Simple Stabilizing Control for Sagittal Plane Locomotion. Journal of Computational and Nonlinear Dynamics, 2006, 1, 348-357. | 1.2 | 26 |
| 9 | Mechanical models for insect locomotion: active muscles and energy losses. Biological Cybernetics, 2003, 89, 43-55. | 1.3 | 19 |
| 10 | Quantifying disturbance rejection of SLIP-like running systems. International Journal of Robotics Research, 2012, 31, 573-587. | 8.5 | 17 |
| 11 | Direct Simulation Based Model-Predictive Control of Flow Maldistribution in Parallel Microchannels. Journal of Fluids Engineering, Transactions of the ASME, 2009, 131, . | 1.5 | 10 |
| 12 | A system identification approach for developing model predictive controllers of antibody quality attributes in cell culture processes. Biotechnology Progress, 2017, 33, 1647-1661. | 2.6 | 9 |
| 13 | Forecasting and control of lactate bifurcation in Chinese hamster ovary cell culture processes. Biotechnology and Bioengineering, 2019, 116, 2223-2235. | 3.3 | 7 |
| 14 | Incorporating Energy Variations Into Controlled Sagittal Plane Locomotion Dynamics. , 2007, , . | | 6 |
| 15 | Impact of slope on dynamics of running and climbing. Bioinspiration and Biomimetics, 2020, 15, 056005. | 2.9 | 5 |
| 16 | Design of a dynamically stable horizontal plane runner. , 2010, , . | | 3 |
| 17 | Steam-Methane Reforming in a Microchannel Under Constant and Variable Axial Surface Temperature Profiles. , 2011, , . | | 3 |
| 18 | Numerical Modeling of a Mini/Microchannel Reactor for Methane-Steam Reforming. , 2010, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Detailed Numerical Modeling of a Microchannel Reactor for Methane-Steam Reforming. , 2011, , . | | 2 |
| 20 | Constrained Euler Buckling: Line Contact Solutions. Solid Mechanics and Its Applications, 1999, , 149-158. | 0.2 | 2 |
| 21 | Direct Simulation Based Model-Predictive Control of Flow Maldistribution in Parallel Microchannels. , 2009, , . | | 0 |
| 22 | Control of an oil-heated, fractal-like branching microchannel desorber. Applied Thermal Engineering, 2010, 30, 510-519. | 6.0 | 0 |
| 23 | Feasibility of spectral pH measurement during the low-pH virus inactivation step of continuous therapeutic antibody production. Biotechnology Progress, 2020, 36, e2988. | 2.6 | 0 |
| 24 | An Actuated Horizontal Plane Model for Insect Locomotion. , 2006, , 883-890. | | 0 |