# Matthaios Katsanikas

List of Publications by Year
in descending order

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|---|---|---|---|
| 16 papers | 149 citations | 1163117<br>8 h-index | 1199594<br>12 g-index |
| 16 all docs | 16 docs citations | 16 times ranked | 33 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Phase Space Structure and Transport in a Caldera Potential Energy Surface. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830042. | 1.7 | 24 |
| 2 | Phase Space Analysis of the Nonexistence of Dynamical Matching in a Stretched Caldera Potential Energy Surface. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950057. | 1.7 | 20 |
| 3 | Dynamics of a spinning particle in a linear in spin Hamiltonian approximation. Physical Review D, 2016, 94, . | 4.7 | 16 |
| 4 | Phase space analysis of the dynamics on a potential energy surface with an entrance channel and two potential wells. Physical Review E, 2020, 102, 012215. | 2.1 | 15 |
| 5 | The Bifurcations of the Critical Points and the Role of Depth in a Symmetric Caldera Potential Energy Surface. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130034. | 1.7 | 13 |
| 6 | The nature of reactive and non-reactive trajectories for a three dimensional Caldera potential energy surface. Physica D: Nonlinear Phenomena, 2022, 435, 133293. | 2.8 | 11 |
| 7 | The Generalization of the Periodic Orbit Dividing Surface in Hamiltonian Systems with Three or More Degrees of Freedom â€" I. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130028. | 1.7 | 10 |
| 8 | Analytical invariant manifolds near unstable points and the structure of chaos. Celestial Mechanics and Dynamical Astronomy, 2014, 119, 331-356. | 1.4 | 8 |
| 9 | Visualizing the phase space of the HeI<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> van der Waals complex using Lagrangian descriptors. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 105993. | 3.3 | 8 |
| 10 | From PoincarÃ© Maps to Lagrangian Descriptors: The Case of the Valley Ridge Inflection Point Potential. Regular and Chaotic Dynamics, 2021, 26, 147-164. | 0.8 | 6 |
| 11 | Bifurcation of Dividing Surfaces Constructed from Period-Doubling Bifurcations of Periodic Orbits in a Caldera Potential Energy Surface. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, . | 1.7 | 6 |
| 12 | Bifurcation of Dividing Surfaces Constructed from a Pitchfork Bifurcation of Periodic Orbits in a Symmetric Potential Energy Surface with a Post-Transition-State Bifurcation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, . | 1.7 | 4 |
| 13 | The Time Evolution of the Trajectories After the Selectivity in a Symmetric Potential Energy Surface with a Post-transition-state Bifurcation. Regular and Chaotic Dynamics, 2021, 26, 763-774. | 0.8 | 4 |
| 14 | Bifurcation study on a degenerate double van der Waals cirque potential energy surface using Lagrangian descriptors. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106089. | 3.3 | 3 |
| 15 | The Generalization of the Periodic Orbit Dividing Surface for Hamiltonian Systems with Three or More Degrees of Freedom â€" II. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150188. | 1.7 | 1 |
| 16 | The Influence of a Parameter that Controls the Asymmetry of a Potential Energy Surface with an Entrance Channel and Two Potential Wells. Regular and Chaotic Dynamics, 2022, 27, 232-241. | 0.8 | 0 |