

Matthew T Eiles

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

257
citations

933447

10
h-index

940533

16
g-index

21
all docs

21
docs citations

21
times ranked

145
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Hamiltonian for the inclusion of spin effects in long-range Rydberg molecules. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 43 |
| 2 | Ultracold molecular Rydberg physics in a high density environment. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 114005. | 1.5 | 31 |
| 3 | Trilobites, butterflies, and other exotic specimens of long-range Rydberg molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 113001. | 1.5 | 28 |
| 4 | Formation of long-range Rydberg molecules in two-component ultracold gases. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 21 |
| 5 | Ultracold Long-Range Rydberg Molecules with Complex Multichannel Spectra. <i>Physical Review Letters</i> , 2015, 115, 193201. | 7.8 | 20 |
| 6 | Anisotropic blockade using pendular long-range Rydberg molecules. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 19 |
| 7 | Compton scattering in strong magnetic fields: Spin-dependent influences at the cyclotron resonance. <i>Physical Review D</i> , 2014, 90, . | 4.7 | 18 |
| 8 | Synthetic Dimension-Induced Conical Intersections in Rydberg Molecules. <i>Physical Review Letters</i> , 2021, 127, 023003. | 7.8 | 13 |
| 9 | Mapping trilobite state signatures in atomic hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 14LT01. | 1.5 | 12 |
| 10 | Dressed Ion-Pair States of an Ultralong-Range Rydberg Molecule. <i>Physical Review Letters</i> , 2020, 125, 123401. | 7.8 | 10 |
| 11 | Extended Coherently Delocalized States in a Frozen Rydberg Gas. <i>Physical Review Letters</i> , 2020, 124, 193401. | 7.8 | 9 |
| 12 | Generalized local frame-transformation theory for ultralong-range Rydberg molecules. <i>Physical Review A</i> , 2020, 102, . | 2.5 | 7 |
| 13 | Extreme Correlation and Repulsive Interactions in Highly Excited Atomic Alkali Anions. <i>Physical Review Letters</i> , 2018, 121, 133401. | 7.8 | 6 |
| 14 | Rydberg Composites. <i>Physical Review X</i> , 2020, 10, . | 8.9 | 6 |
| 15 | Theoretical Prediction of the Creation and Observation of a Ghost Trilobite Chemical Bond. <i>Physical Review Letters</i> , 2018, 121, 113203. | 7.8 | 4 |
| 16 | Triatomic butterfly molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 084001. | 1.5 | 3 |
| 17 | Delocalization in two and three-dimensional Rydberg gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 124003. | 1.5 | 3 |
| 18 | Ring Rydberg composites. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 054001. | 1.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Coherently delocalized states in dipole interacting Rydberg ensembles: The role of internal degeneracies. <i>Physical Review A</i> , 2021, 104, . | 2.5 | 2 |
| 20 | Anisotropic blockade using pendular long-range Rydberg molecules. <i>Journal of Physics: Conference Series</i> , 2017, 875, 082005. | 0.4 | 0 |