

Eric R Hudson

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

937
citations

430874

18
h-index

434195

31
g-index

33
all docs

33
docs citations

33
times ranked

704
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Determining reaction pathways at low temperatures by isotopic substitution: the case of $\text{BeD}^+ + \text{H}_2\text{O}$. <i>New Journal of Physics</i> , 2021, 23, 115004. | 2.9 | 4 |
| 2 | Isomer-specific kinetics of the $\text{C}^+ + \text{H}_2\text{O}$ reaction at the temperature of interstellar clouds. <i>Science Advances</i> , 2021, 7, . | 10.3 | 16 |
| 3 | Increase of the barium ion-trap lifetime via photodissociation. <i>Physical Review A</i> , 2021, 104, . | 2.5 | 1 |
| 4 | Application of a self-injection locked cyan laser for Barium ion cooling and spectroscopy. <i>Scientific Reports</i> , 2020, 10, 16494. | 3.3 | 7 |
| 5 | In search of molecular ions for optical cycling: a difficult road. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17075-17090. | 2.8 | 20 |
| 6 | Dipole-Phonon Quantum Logic with Trapped Polar Molecular Ions. <i>Physical Review Letters</i> , 2020, 125, 120501. | 7.8 | 21 |
| 7 | High-fidelity manipulation of a qubit enabled by a manufactured nucleus. <i>Npj Quantum Information</i> , 2020, 6, . | 6.7 | 49 |
| 8 | Dipole-phonon quantum logic with alkaline-earth monoxide and monosulfide cations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24964-24973. | 2.8 | 6 |
| 9 | Isotope-selective chemistry in the $\text{Be}^+(\text{S}^{1/2}) + \text{HOD}^+$ $\text{BeOD}^+/\text{BeOH}^+ + \text{H/D}$ reaction. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14005-14011. | 2.8 | 14 |
| 10 | Engineering Excited-State Interactions at Ultracold Temperatures. <i>Physical Review Letters</i> , 2019, 122, 233401. | 7.8 | 8 |
| 11 | Reaction blockading in a reaction between an excited atom and a charged molecule at low collision energy. <i>Nature Chemistry</i> , 2019, 11, 615-621. | 13.6 | 41 |
| 12 | Excitation-assisted nonadiabatic charge-transfer reaction in a mixed atom-ion system. <i>Physical Review A</i> , 2019, 99, . | 2.5 | 9 |
| 13 | Dipolar quantum logic for freely rotating trapped molecular ions. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 53 |
| 14 | High-resolution collision energy control through ion position modulation in atom-ion hybrid systems. <i>Review of Scientific Instruments</i> , 2018, 89, 083112. | 1.3 | 7 |
| 15 | Optical Control of Reactions between Water and Laser-Cooled Be^+ Ions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3555-3560. | 4.6 | 37 |
| 16 | Efficient repumping of a Ca magneto-optical trap. <i>Physical Review A</i> , 2017, 96, . | 2.5 | 13 |
| 17 | Spectroscopy of a Synthetic Trapped Ion Qubit. <i>Physical Review Letters</i> , 2017, 119, 100501. | 7.8 | 25 |
| 18 | Synthesis of mixed hypermetallic oxide BaOCa^+ from laser-cooled reagents in an atom-ion hybrid trap. <i>Science</i> , 2017, 357, 1370-1375. | 12.6 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Explanation of efficient quenching of molecular ion vibrational motion by ultracold atoms. Nature Communications, 2016, 7, 11234. | 12.8 | 30 |
| 20 | Sympathetic cooling of molecular ions with ultracold atoms. EPJ Techniques and Instrumentation, 2016, 3, . | 1.3 | 29 |
| 21 | Blue-sky bifurcation of ion energies and the limits of neutral-gas sympathetic cooling of trapped ions. Nature Communications, 2016, 7, 12448. | 12.8 | 27 |
| 22 | Electronics of an ion trap with integrated time-of-flight mass spectrometer. International Journal of Mass Spectrometry, 2016, 394, 1-8. | 1.5 | 12 |
| 23 | Results of a Direct Search Using Synchrotron Radiation for the Low-Energy ^{229}Th Isomeric Transition. Physical Review Letters, 2015, 114, 253001. | 7.8 | 87 |
| 24 | Photodissociation spectroscopy of the dysprosium monochloride molecular ion. Journal of Chemical Physics, 2015, 143, 124309. | 3.0 | 4 |
| 25 | Action spectroscopy of SrCl^+ using an integrated ion trap time-of-flight mass spectrometer. Journal of Chemical Physics, 2014, 141, 014309. | 3.0 | 9 |
| 26 | Neutral Gas Sympathetic Cooling of an Ion in a Paul Trap. Physical Review Letters, 2014, 112, 143009. | 7.8 | 60 |
| 27 | Laser-Cooling-Assisted Mass Spectrometry. Physical Review Applied, 2014, 2, . | 3.8 | 28 |
| 28 | Measurement of the Coulomb Logarithm in a Radio-Frequency Paul Trap. Physical Review Letters, 2013, 110, 173003. | 7.8 | 22 |
| 29 | Evidence for sympathetic vibrational cooling of translationally cold molecules. Nature, 2013, 495, 490-494. | 27.8 | 103 |
| 30 | An integrated ion trap and time-of-flight mass spectrometer for chemical and photo- reaction dynamics studies. Review of Scientific Instruments, 2012, 83, 043103. | 1.3 | 38 |
| 31 | Molecular-ion trap-depletion spectroscopy of BaCl^+ . Physical Review A, 2011, 83, . | 2.5 | 26 |
| 32 | Method for producing ultracold molecular ions. Physical Review A, 2009, 79, . | 2.5 | 63 |
| 33 | The coldest polar region. Nature Physics, 2008, 4, 911-912. | 16.7 | 10 |