

A P Hickman

List of Publications by Year in descending order

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24
papers

1,023
citations

393982

19
h-index

610482

24
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all docs

24
docs citations

24
times ranked

349
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Approximate scaling formula for ion-ion mutual neutralization rates. Journal of Chemical Physics, 1979, 70, 4872-4878. | 1.2 | 115 |
| 2 | Localized Excited States of Helium in Liquid Helium. Physical Review Letters, 1971, 26, 1216-1219. | 2.9 | 103 |
| 3 | Nature of excited helium atoms in liquid helium: A theoretical model. Physical Review B, 1975, 12, 3705-3717. | 1.1 | 78 |
| 4 | Theory of multiwave propagation and frequency conversion in a Raman medium. Physical Review A, 1986, 33, 1788-1797. | 1.0 | 68 |
| 5 | Model quantum-mechanical calculations for the Penning ionization of Ar by He(23S). Journal of Physics B: Atomic and Molecular Physics, 1976, 9, 1765-1781. | 1.6 | 62 |
| 6 | Theory of angular momentum mixing in Rydberg-atom-rare-gas collisions. Physical Review A, 1978, 18, 1339-1342. | 1.0 | 61 |
| 7 | Dissociative recombination of electrons with H ₂ ⁺ . Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 2091-2099. | 1.6 | 53 |
| 8 | Relation between low-energy-electron scattering and changing collisions of Rydberg atoms. Physical Review A, 1979, 19, 994-1003. | 1.0 | 51 |
| 9 | Approximate scaling formula for collisional angular-momentum mixing of Rydberg atoms. Physical Review A, 1981, 23, 87-94. | 1.0 | 50 |
| 10 | Non-Franck-Condon distribution of final states in photoionization of H ₂ (C ¹ u). Physical Review Letters, 1987, 59, 1553-1556. | 2.9 | 49 |
| 11 | Dissociative recombination of H ₂ ⁺ . Physical Review Letters, 1991, 67, 42-45. | 2.9 | 45 |
| 12 | Calculation of associative and Penning ionization of H and D by He(2s ¹ S) and He(2s ³ S). Journal of Chemical Physics, 1977, 67, 5484-5490. | 1.2 | 38 |
| 13 | Theory of Stokes and anti-Stokes generation by Raman frequency conversion in the transient limit. Physical Review A, 1988, 37, 2516-2523. | 1.0 | 38 |
| 14 | Interatomic potentials for excited states of XeHe and XeAr. Journal of Chemical Physics, 1992, 96, 2099-2113. | 1.2 | 35 |
| 15 | Penning ionization of H ₂ by He*: Calculation of anomalous structure in the singlet interaction potential. Journal of Chemical Physics, 1977, 67, 370-371. | 1.2 | 31 |
| 16 | Efficient anti-Stokes Raman conversion in collimated beams. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 1859. | 0.9 | 29 |
| 17 | The effect of core interactions in l-mixing collisions of Rydberg atoms with rare gases. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, L419-L424. | 1.6 | 23 |
| 18 | Photoelectron spectroscopy of vibrationally excited H ₂ (E, F ¹ g ⁺ 1). Physical Review A, 1989, 40, 7031-7038. | 1.0 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Calculations of inelastic collisions of excited states of Xe with He and Ar. Journal of Chemical Physics, 1993, 98, 5419-5430. | 1.2 | 20 |
| 20 | Two-photon excitation and excited-state absorption cross sections for $H_2E, \tilde{F}^1g_1 (v=6)$: Measurement and calculations. Physical Review A, 1989, 39, 3932-3941. | 1.0 | 19 |
| 21 | Long-range $He_2(\tilde{1}g, u+3)$ potentials and metastability exchange in He-He collisions. Physical Review A, 1974, 10, 444-447. | 1.0 | 12 |
| 22 | Van der Donket al. reply. Physical Review Letters, 1992, 68, 2252-2252. | 2.9 | 10 |
| 23 | Comparison of ion pair formation in the systems $Ar^+ + I_2$ and $K + I_2$. Journal of Chemical Physics, 1980, 73, 3672-3678. | 1.2 | 8 |
| 24 | Model for fast, nonadiabatic collisions between alkali atoms and diatomic molecules. Journal of Chemical Physics, 1980, 73, 4413-4418. | 1.2 | 5 |