

# Jakub Benda

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7643362/publications.pdf>

Version: 2024-02-01

16  
papers

340  
citations

1163117

8  
h-index

996975

15  
g-index

19  
all docs

19  
docs citations

19  
times ranked

283  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Analysis of RABITT time delays using the stationary multiphoton molecular $R$ -matrix approach. Physical Review A, 2022, 105, .   | 2.5 | 12        |
| 2  | Enhancing spin polarization using ultrafast angular streaking. Physical Review A, 2021, 103, .  | 2.5 | 5         |
| 3  | Multi-photon above threshold ionization of multi-electron atoms and molecules using the R-matrix approach. Scientific Reports, 2021, 11, 11686.   | 3.3 | 7         |
| 4  | UKRmol+: A suite for modelling electronic processes in molecules interacting with electrons, positrons and photons using the R-matrix method. Computer Physics Communications, 2020, 249, 107092.   | 7.5 | 100       |
| 5  | RMT: R-matrix with time-dependence. Solving the semi-relativistic, time-dependent Schrödinger equation for general, multielectron atoms and molecules in intense, ultrashort, arbitrarily polarized perturbative and nonperturbative photoionization of $H_2$ . | 7.5 | 54        |
| 6  | Photoionization of $H_2$ using the molecular R-matrix with time approach. Journal of Physics: Conference Series, 2020, 1412, 152066.  | 2.5 | 21        |
| 7  | Electron correlation and short-range dynamics in attosecond angular streaking. Physical Review A, 2020, 101, .  | 0.4 | 0         |
| 8  | Quantemol Electron Collisions (QEC): An Enhanced Expert System for Performing Electron Molecule Collision Calculations Using the R-Matrix Method. Atoms, 2019, 7, 97.   | 2.5 | 9         |
| 9  | Modeling tomographic measurements of photoelectron vortices in counter-rotating circularly polarized laser pulses. Physical Review A, 2019, 100, .  | 1.6 | 41        |
| 10 | Converged and consistent high-resolution low-energy electron- $\epsilon$ hydrogen scattering. I. Data below threshold for applications in stellar physics. Atomic Data and Nuclear Data Tables, 2018, 119, 303-313.   | 2.5 | 14        |
| 11 | Reducing the dimensionality of grid based methods for electron-atom scattering calculations below ionization threshold. Computer Physics Communications, 2017, 213, 46-51.  | 2.4 | 4         |
| 12 | New version of hex-ecs, the B-spline implementation of exterior complex scaling method for solution of electron- $\epsilon$ hydrogen scattering. Computer Physics Communications, 2016, 204, 216-217.   | 7.5 | 1         |
| 13 | Three-dimensional super-resolution structured illumination microscopy with maximum a posteriori probability image estimation. Optics Express, 2014, 22, 29805.  | 7.5 | 2         |
| 14 | Collisions of electrons with hydrogen atoms II. Low-energy program using the method of the exterior complex scaling. Computer Physics Communications, 2014, 185, 2903-2912.   | 3.4 | 55        |
| 15 | Collisions of electrons with hydrogen atoms I. Package outline and high energy code. Computer Physics Communications, 2014, 185, 2893-2902.   | 7.5 | 6         |
| 16 |   | 7.5 | 5         |