

# 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	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
2	Three-dimensional super-resolution structured illumination microscopy with maximum a posteriori probability image estimation. Optics Express, 2014, 22, 29805.	3.4	55
3	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 laser pulses. Computer Physics Communications, 2020, 250, 107062.	7.5	54
4	Quantemol Electron Collisions (QEC): An Enhanced Expert System for Performing Electron Molecule Collision Calculations Using the R-Matrix Method. Atoms, 2019, 7, 97.	1.6	41
5	Perturbative and nonperturbative photoionization of $\text{H}^+$ and $\text{H}^2+$ using the molecular R-matrix approach. Physical Review A, 2022, 105, .	2.5	21
6	Modeling tomographic measurements of photoelectron vortices in counter-rotating circularly polarized laser pulses. Physical Review A, 2019, 100, .	2.5	14
7	Analysis of RABITT time delays using the stationary multiphoton molecular R-matrix approach. Physical Review A, 2022, 105, .	2.5	12
8	Electron correlation and short-range dynamics in attosecond angular streaking. Physical Review A, 2020, 101, .	2.5	9
9	Multi-photon above threshold ionization of multi-electron atoms and molecules using the R-matrix approach. Scientific Reports, 2021, 11, 11686.	3.3	7
10	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.	7.5	6
11	Collisions of electrons with hydrogen atoms I. Package outline and high energy code. Computer Physics Communications, 2014, 185, 2893-2902.	7.5	5
12	Enhancing spin polarization using ultrafast angular streaking. Physical Review A, 2021, 103, .	2.5	5
13	Converged and consistent high-resolution low-energy electron- $\text{H}^+$ hydrogen scattering. I. Data below threshold for applications in stellar physics. Atomic Data and Nuclear Data Tables, 2018, 110, 203-212.	2.4	4
14	New version of hex-ecs, the B-spline implementation of exterior complex scaling method for solution of electron- $\text{H}^+$ hydrogen scattering. Computer Physics Communications, 2016, 204, 216-217.	7.5	2
15	Reducing the dimensionality of grid based methods for electron-atom scattering calculations below ionization threshold. Computer Physics Communications, 2017, 213, 46-51.	7.5	1
16	Photoionization of $\text{H}_2$ using the molecular R-matrix with time approach. Journal of Physics: Conference Series, 2020, 1412, 152066.	0.4	0