

Mark C Zammit

List of Publications by Year in descending order

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34
papers

1,157
citations

516561

16
h-index

395590

33
g-index

34
all docs

34
docs citations

34
times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of electron-helium scattering. <i>Physical Review A</i> , 1995, 52, 1279-1297.	1.0	314
2	LXCat: an Open-Access, Web-Based Platform for Data Needed for Modeling Low Temperature Plasmas. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600098.	1.6	188
3	Fully Relativistic Convergent Close-Coupling Method for Excitation and Ionization Processes in Electron Collisions with Atoms and Ions. <i>Physical Review Letters</i> , 2008, 100, 113201.	2.9	79
4	Electron- and positron-molecule scattering: development of the molecular convergent close-coupling method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 123001.	0.6	59
5	Complete Solution of Electronic Excitation and Ionization in Electron-Hydrogen Molecule Scattering. <i>Physical Review Letters</i> , 2016, 116, 233201.	2.9	47
6	Electron-impact excitation of molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	1.0	46
7	Convergent-close-coupling formalism for positron scattering from molecules. <i>Physical Review A</i> , 2013, 87, .	1.0	42
8	Electron scattering from the molecular hydrogen ion and its isotopologues. <i>Physical Review A</i> , 2014, 90, .	1.0	42
9	Convergent close-coupling method for positron scattering from noble gases. <i>New Journal of Physics</i> , 2012, 14, 035002.	1.2	35
10	Relativistic convergent close-coupling method applied to electron scattering from mercury. <i>Physical Review A</i> , 2010, 82, .	1.0	31
11	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	1.0	27
12	Electron-impact dissociation of molecular hydrogen into neutral fragments. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	24
13	Complete consistent data set for electrons scattering on molecular hydrogen and its isotopologues: I. Fully vibrationally-resolved electronic excitation of H		

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19	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. <i>Astrophysical Journal</i> , 2017, 851, 64.	1.6	13
20	Electron-impact dissociative excitation cross sections for singlet states of molecular hydrogen. <i>Physical Review A</i> , 2018, 98, .	1.0	13
21	Vibrationally resolved electron-impact excitation cross sections for singlet states of molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 144007.	0.6	13
22	Vibrational excitation of the $\{m\{H\}\}_2X^{\{1\}\{m\{Sigma\}\}_g^{\{+\}\}$ state via electron-impact excitation and radiative cascade. <i>Plasma Sources Science and Technology</i> , 2019, 28, 025004.	1.3	12
23	Electron-scattering on molecular hydrogen: convergent close-coupling approach. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	11
24	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: II. Fully vibrationally-resolved electronic excitation of the isotopologues of H ₂ ($X^1\Sigma_g^+$). <i>Atomic Data and Nuclear Data Tables</i> , 2021, 139, 101403.	0.9	11
25	Laser-driven production of the antihydrogen molecular ion. <i>Physical Review A</i> , 2019, 100, .	1.0	9
26	Electron mass stopping power in H ₂ . <i>Physical Review A</i> , 2017, 96, .	1.0	8
27	Isotopic and vibrational-level dependence of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi mathvariant="normal"} \rangle \text{H} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ dissociation by electron impact. <i>Physical Review A</i> , 2021, 103, .	1.0	8
28	Electron-Impact Dissociation of Vibrationally-Excited Molecular Hydrogen into Neutral Fragments. <i>Atoms</i> , 2019, 7, 75.	0.7	6
29	Impact of a minority relativistic electron tail interacting with a thermal plasma containing high-atomic-number impurities. <i>Physics of Plasmas</i> , 2020, 27, 040702.	0.7	6
30	Electronic and Vibrational Close-Coupling Method for Resonant Electron-Molecule Scattering. <i>Physical Review Letters</i> , 2021, 127, 223401.	2.9	5
31	Linear polarization fractions of Fulcher- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \hat{\Gamma} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ fluorescence in electron collisions with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi mathvariant="normal"} \rangle \text{H} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. <i>Physical Review A</i> , 2021, 104, .	1.0	2
32	Understanding how minority relativistic electron populations may dominate charge state balance and radiative cooling of a post-thermal quench tokamak plasma. <i>Physics of Plasmas</i> , 2022, 29, 012504.	0.7	2
33	Anisotropic angular scattering models of elastic electron-neutral collisions for Monte Carlo plasma simulations. <i>Plasma Sources Science and Technology</i> , 2022, 31, 065013.	1.3	2
34	Electron energy deposition in molecular hydrogen gas: a Monte Carlo simulation using convergent close-coupling cross sections. <i>Plasma Sources Science and Technology</i> , 2021, 30, 115004.	1.3	0