

# Carla Verdi

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

2,876  
citations

566801  
15  
h-index

839053  
18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

4516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Many-body Green's function approaches to the doped FrÃ¶hlich solid: Exact solutions and anomalous mass enhancement. <i>Physical Review B</i> , 2022, 105, .	1.1	4
2	Phase transitions of zirconia: Machine-learned force fields beyond density functional theory. <i>Physical Review B</i> , 2022, 105, .	1.1	21
3	First-principles hydration free energies of oxygenated species at waterâ€“platinum interfaces. <i>Journal of Chemical Physics</i> , 2021, 154, 094107.	1.2	11
4	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>±</mml:mi><mml:mtext>â”</mml:mtext><mml:mi>̂</mml:mi></mml:math> phase transition of zirconium predicted by on-the-fly machine-learned force field. <i>Physical Review Materials</i> , 2021, 5, .	0.9	21
5	Thermal transport and phase transitions of zirconia by on-the-fly machine-learned interatomic potentials. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	57
6	Descriptors representing two- and three-body atomic distributions and their effects on the accuracy of machine-learned inter-atomic potentials. <i>Journal of Chemical Physics</i> , 2020, 152, 234102.	1.2	71
7	Electron-polaron dichotomy of charge carriers in perovskite oxides. <i>Communications Physics</i> , 2020, 3, .	2.0	19
8	Many-Body Calculations of Plasmon and Phonon Satellites in Angle-Resolved Photoelectron Spectra Using the Cumulant Expansion Approach. , 2020, , 341-365.		1
9	<i>Ab initio</i>theory of polarons: Formalism and applications. <i>Physical Review B</i> , 2019, 99, .	1.1	84
10	Polarons from First Principles, without Supercells. <i>Physical Review Letters</i> , 2019, 122, 246403.	2.9	79
11	Electron-plasmon and electron-phonon satellites in the angle-resolved photoelectron spectra of -doped anatase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2018, 97, .	1.1	27
12	Bimolecular recombination in methylammonium lead triiodide perovskite is an inverse absorption process. <i>Nature Communications</i> , 2018, 9, 293.	5.8	243
13	Many-Body Calculations of Plasmon and Phonon Satellites in Angle-Resolved Photoelectron Spectra Using the Cumulant Expansion Approach. , 2018, , 1-25.		0
14	Crossover from lattice to plasmonic polarons of a spin-polarised electron gas in ferromagnetic EuO. <i>Nature Communications</i> , 2018, 9, 2305.	5.8	31
15	Origin of the crossover from polarons to Fermi liquids in transition metal oxides. <i>Nature Communications</i> , 2017, 8, 15769.	5.8	122
16	EPW: Electronâ€“phonon coupling, transport and superconducting properties using maximally localized Wannier functions. <i>Computer Physics Communications</i> , 2016, 209, 116-133.	3.0	777
17	Electronâ€“phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , 2016, 7, .	5.8	919
18	FrÃ¶hlich Electron-Phonon Vertex from First Principles. <i>Physical Review Letters</i> , 2015, 115, 176401.	2.9	232

#	ARTICLE	IF	CITATIONS
19	<sup>i</sup><math>GW</math> Band Structures and Carrier Effective Masses of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> and Hypothetical Perovskites of the Type APbI<sub>3</sub>; A = NH<sub>4</sub>, PH<sub>4</sub>, AsH<sub>4</sub>, and SbH<sub>4</sub>. Journal of Physical Chemistry C, 2015, 119, 25209-25219.	1.5	144
20	Alignment of energy levels in dye/semiconductor interfaces by<math>\text{mml:math}\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"}<\text{mml:mrow}><\text{mml:mi}>G</\text{mml:mi}><\text{mml:mi}>W</\text{mml:mi}>&lt;\text{mml:mrow}></\text{mml:math}>		