Nicolas Tancogne-Dejean

List of Publications by Year
in descending order

40 papers	1,846 citations	331670 21 h-index	345221 36 g-index
41 all docs	41 docs citations	41 times ranked	1727 citing authors

#	Article	IF	Citations
1	Comment on â€œOrigin of symmetry-forbidden high-order harmonic generation in the time-dependent Kohn-Sham formulationâ€. Physical Review A, 2022, 105, .	2.5	1
2	Effect of spin-orbit coupling on the high harmonics from the topological Dirac semimetal Na3Bi. Npj Computational Materials, 2022, 8, .	8.7	13
3	High Harmonics and Isolated Attosecond Pulses from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>Mg</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review Applied, 2021, 15, .	3.8	26
4	Time-Resolved Exciton Wave Functions from Time-Dependent Density-Functional Theory. Journal of Chemical Theory and Computation, 2021, 17, 1795-1805.	5.3	2
5	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	10.3	73
6	Ultrafast dynamical Lifshitz transition. Science Advances, 2021, 7, .	10.3	38
7	Enhanced extreme ultraviolet high-harmonic generation from chromium-doped magnesium oxide. Applied Physics Letters, 2021, 118, .	3.3	22
8	Identification of the Mott Insulating Charge Density Wave State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi mathvariant="normal">T</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Ta</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:m Physical Review Letters, 2021, 126, 196406.	7.8	27
9	Light-Driven Extremely Nonlinear Bulk Photogalvanic Currents. Physical Review Letters, 2021, 127, 126601.	7.8	25
10	Photoionization and transient Wannier-Stark ladder in silicon: First-principles simulations versus Keldysh theory. Physical Review B, 2021, 104, .	3.2	7
11	Role of intraband dynamics in the generation of circularly polarized high harmonics from solids. Physical Review B, 2020, 102, .	3.2	17
12	Parameter-free hybridlike functional based on an extended Hubbard model: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>DFT</mml:mi><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:m Physical Review B, 2020, 102, .	3.2	42
13	The CECAM electronic structure library and the modular software development paradigm. Journal of Chemical Physics, 2020, 153, 024117.	3.0	19
14	Photomolecular High-Temperature Superconductivity. Physical Review X, 2020, 10, .	8.9	59
15	Light-Induced Renormalization of the Dirac Quasiparticles in the Nodal-Line Semimetal ZrSiSe. Physical Review Letters, 2020, 125, 076401.	7.8	26
16	Ultrafast transient absorption spectroscopy of the charge-transfer insulator NiO: Beyond the dynamical Franz-Keldysh effect. Physical Review B, 2020, 102, .	3.2	12
17	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. Journal of Chemical Physics, 2020, 152, 124119.	3.0	210
18	Time-Dependent Magnons from First Principles. Journal of Chemical Theory and Computation, 2020, 16, 1007-1017.	5.3	21

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19	High-harmonic generation from spin-polarised defects in solids. Npj Computational Materials, 2020, 6, .	8.7	48
20	Role of electron scattering on the high-order harmonic generation from solids. Physical Review Research, 2020, 2, .	3.6	3
21	Role of intraband dynamics on circularly polarized high-harmonic generation from solids. , 2020, , .		0
22	Multiflat Bands and Strong Correlations in Twisted Bilayer Boron Nitride: Doping-Induced Correlated Insulator and Superconductor. Nano Letters, 2019, 19, 4934-4940.	9.1	123
23	Polarization states of high-harmonics generated in silicon from elliptical drivers. EPJ Web of Conferences, 2019, 205, 02022.	0.3	0
24	Polarization-state-resolved high-harmonic spectroscopy of solids. Nature Communications, 2019, 10, 1319.	12.8	60
25	From a quantum-electrodynamical lightâ€“matter description to novel spectroscopies. Nature Reviews Chemistry, 2018, 2, .	30.2	182
26	Atomic-like high-harmonic generation from two-dimensional materials. Science Advances, 2018, 4, eaao5207.	10.3	98
27	All-optical nonequilibrium pathway to stabilising magnetic Weyl semimetals in pyrochlore iridates. Nature Communications, 2018, 9, 4452.	12.8	38
28	High-harmonic generation from few-layer hexagonal boron nitride: Evolution from monolayer to bulk response. Physical Review B, 2018, 98, .	3.2	54
29	Ultrafast Modification of Hubbard<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>U</mml:mi></mml:mrow></mml:math>in a Strongly Correlated Material:AbÂinitioHigh-Harmonic Generation in NiO. Physical Review Letters, 2018, 121, 097402.	7.8	118
30	Impact of the Electronic Band Structure in High-Harmonic Generation Spectra of Solids. Physical Review Letters, 2017, 118, 087403.	7.8	226
31	Ellipticity dependence of high-harmonic generation in solids originating from coupled intraband and interband dynamics. Nature Communications, 2017, 8, 745.	12.8	146
32	Self-consistent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">DFT</mml:mi><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:math> method for real-space time-dependent density functional theory calculations. Physical Review B, 2017, 96, .	3.2	35
33	Generation of circularly polarized high-order harmonics in solids driven by single-color infrared pulses. , 2017, , .		1
34	Ellipticity dependence of higher-order harmonics in solids: unraveling the coupled intraband and interband dynamics. , 2017, , .		0
35	Ab initiodescription of second-harmonic generation from crystal surfaces. Physical Review B, 2016, 94, .	3.2	5
36	Improvedab initiocalculation of surface second-harmonic generation from Si(111)(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Physical Review B, 2016, 93, .	3.2	7

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37	Theory of surface second-harmonic generation for semiconductors including effects of nonlocal operators. Physical Review B, 2015, 91, .	3.2	20
38	Optical properties of surfaces with supercellab initiocalculations: Local-field effects. Physical Review B, 2015, 92, .	3.2	19
39	Effect of material properties on the accuracy of antiresonant approximation: Linear and second-order optical responses. Physical Review B, 2014, 90, .	3.2	6
40	Ab Initio Cluster Approach for High Harmonic Generation in Liquids. Journal of Chemical Theory and Computation, 0, , .	5.3	14