

Nicolas Tancogne-Dejean

List of Publications by Year in descending order

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Version: 2024-02-01

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	Impact of the Electronic Band Structure in High-Harmonic Generation Spectra of Solids. <i>Physical Review Letters</i> , 2017, 118, 087403.	7.8	226
2	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. <i>Journal of Chemical Physics</i> , 2020, 152, 124119.	3.0	210
3	From a quantum-electrodynamical light-matter description to novel spectroscopies. <i>Nature Reviews Chemistry</i> , 2018, 2, .	30.2	182
4	Ellipticity dependence of high-harmonic generation in solids originating from coupled intraband and interband dynamics. <i>Nature Communications</i> , 2017, 8, 745.	12.8	146
5	Multiflat Bands and Strong Correlations in Twisted Bilayer Boron Nitride: Doping-Induced Correlated Insulator and Superconductor. <i>Nano Letters</i> , 2019, 19, 4934-4940.	9.1	123
6	Ultrafast Modification of Hubbard U in a Strongly Correlated Material: Ab Initio High-Harmonic Generation in NiO. <i>Physical Review Letters</i> , 2018, 121, 097402.	7.8	118
7	Atomic-like high-harmonic generation from two-dimensional materials. <i>Science Advances</i> , 2018, 4, eaao5207.	10.3	98
8	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. <i>Science Advances</i> , 2021, 7, .	10.3	73
9	Polarization-state-resolved high-harmonic spectroscopy of solids. <i>Nature Communications</i> , 2019, 10, 1319.	12.8	60
10	Photomolecular High-Temperature Superconductivity. <i>Physical Review X</i> , 2020, 10, .	8.9	59
11	High-harmonic generation from few-layer hexagonal boron nitride: Evolution from monolayer to bulk response. <i>Physical Review B</i> , 2018, 98, .	3.2	54
12	High-harmonic generation from spin-polarised defects in solids. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	48
13	Parameter-free hybridlike functional based on an extended Hubbard model: $DFT + U$ Physical Review B, 2020, 102, .	4.2	42
14	All-optical nonequilibrium pathway to stabilising magnetic Weyl semimetals in pyrochlore iridates. <i>Nature Communications</i> , 2018, 9, 4452.	12.8	38
15	Ultrafast dynamical Lifshitz transition. <i>Science Advances</i> , 2021, 7, .	10.3	38
16	Self-consistent $DFT + U$ method for real-space time-dependent density functional theory calculations. <i>Physical Review B</i> , 2017, 96, .	3.2	35
17	$T + S$ Physical Review Letters, 2021, 126, 196406	7.8	27
18	Light-Induced Renormalization of the Dirac Quasiparticles in the Nodal-Line Semimetal ZrSiSe. <i>Physical Review Letters</i> , 2020, 125, 076401.	7.8	26

#	ARTICLE	IF	CITATIONS
19	High Harmonics and Isolated Attosecond Pulses from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Mg} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review Applied, 2021, 15, .	3.8	26
20	Light-Driven Extremely Nonlinear Bulk Photogalvanic Currents. Physical Review Letters, 2021, 127, 126601.	7.8	25
21	Enhanced extreme ultraviolet high-harmonic generation from chromium-doped magnesium oxide. Applied Physics Letters, 2021, 118, .	3.3	22
22	Time-Dependent Magnons from First Principles. Journal of Chemical Theory and Computation, 2020, 16, 1007-1017.	5.3	21
23	Theory of surface second-harmonic generation for semiconductors including effects of nonlocal operators. Physical Review B, 2015, 91, .	3.2	20
24	Optical properties of surfaces with supercell <i>ab initio</i> calculations: Local-field effects. Physical Review B, 2015, 92, .	3.2	19
25	The CECAM electronic structure library and the modular software development paradigm. Journal of Chemical Physics, 2020, 153, 024117.	3.0	19
26	Role of intraband dynamics in the generation of circularly polarized high harmonics from solids. Physical Review B, 2020, 102, .	3.2	17
27	Ab Initio Cluster Approach for High Harmonic Generation in Liquids. Journal of Chemical Theory and Computation, 0, , .	5.3	14
28	Effect of spin-orbit coupling on the high harmonics from the topological Dirac semimetal Na ₃ Bi. Npj Computational Materials, 2022, 8, .	8.7	13
29	Ultrafast transient absorption spectroscopy of the charge-transfer insulator NiO: Beyond the dynamical Franz-Keldysh effect. Physical Review B, 2020, 102, .	3.2	12
30	Improved <i>ab initio</i> calculation of surface second-harmonic generation from Si(111) $\langle \text{mml:math} \rangle \text{Tj ETQqO O O rgBT /Overlock 10 T}$. Physical Review B, 2016, 93, .	3.2	7
31	Photoionization and transient Wannier-Stark ladder in silicon: First-principles simulations versus Keldysh theory. Physical Review B, 2021, 104, .	3.2	7
32	Effect of material properties on the accuracy of antiresonant approximation: Linear and second-order optical responses. Physical Review B, 2014, 90, .	3.2	6
33	Ab initio description of second-harmonic generation from crystal surfaces. Physical Review B, 2016, 94, .	3.2	5
34	Role of electron scattering on the high-order harmonic generation from solids. Physical Review Research, 2020, 2, .	3.6	3
35	Time-Resolved Exciton Wave Functions from Time-Dependent Density-Functional Theory. Journal of Chemical Theory and Computation, 2021, 17, 1795-1805.	5.3	2
36	Generation of circularly polarized high-order harmonics in solids driven by single-color infrared pulses., 2017, , .		1

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37	Comment on "Origin of symmetry-forbidden high-order harmonic generation in the time-dependent Kohn-Sham formulation". Physical Review A, 2022, 105, .	2.5	1
38	Polarization states of high-harmonics generated in silicon from elliptical drivers. EPJ Web of Conferences, 2019, 205, 02022.	0.3	0
39	Ellipticity dependence of higher-order harmonics in solids: unraveling the coupled intraband and interband dynamics. , 2017, , .		0
40	Role of intraband dynamics on circularly polarized high-harmonic generation from solids. , 2020, , .		0