

# Raffaello Bianco

## List of Publications by Year in descending order

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22  
papers

1,338  
citations

430874

18  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1434  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous High-Temperature Superconductivity in $\text{YH}_6$ . <i>Advanced Materials</i> , 2021, 33, e2006832.	21.0	196
2	Quantum crystal structure in the 250-kelvin superconducting lanthanum hydride. <i>Nature</i> , 2020, 578, 66-69.	27.8	193
3	Mapping topological order in coordinate space. <i>Physical Review B</i> , 2011, 84, .	3.2	155
4	Second-order structural phase transitions, free energy curvature, and temperature-dependent anharmonic phonons in the self-consistent harmonic approximation: Theory and stochastic implementation. <i>Physical Review B</i> , 2017, 96, .	3.2	100
5	Phonon Collapse and Second-Order Phase Transition in Thermoelectric SnSe. <i>Physical Review Letters</i> , 2019, 122, 075901.	7.8	92
6	The stochastic self-consistent harmonic approximation: calculating vibrational properties of materials with full quantum and anharmonic effects. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 363001.	1.8	70
7	Strong anharmonicity in the phonon spectra of PbTe and SnTe from first principles. <i>Physical Review B</i> , 2018, 97, .	3.2	63
8	Quantum Enhancement of Charge Density Wave in $\text{NbS}_2$ in the Two-Dimensional Limit. <i>Nano Letters</i> , 2019, 19, 3098-3103.	9.1	62
9	Electronic and vibrational properties of $\text{TiSe}_2$ in the charge-density-wave phase from first principles. <i>Physical Review B</i> , 2015, 92, .	7.8	55
10	Critical Role of the Exchange Interaction for the Electronic Structure and Charge-Density-Wave Formation in $\text{TiSe}_2$ . <i>Physical Review Letters</i> , 2017, 119, 176401.	7.8	55
11	Orbital Magnetization as a Local Property. <i>Physical Review Letters</i> , 2013, 110, 087202.	7.8	48
12	High-pressure phase diagram of hydrogen and deuterium sulfides from first principles: Structural and vibrational properties including quantum and anharmonic effects. <i>Physical Review B</i> , 2018, 97, .	3.2	38
13	Weak Dimensionality Dependence and Dominant Role of Ionic Fluctuations in the Charge-Density-Wave Transition of $\text{NbSe}_2$ . <i>Physical Review Letters</i> , 2020, 125, 106101.	7.8	37
14	Strong anharmonicity and high thermoelectric efficiency in high-temperature SnS from first principles. <i>Physical Review B</i> , 2019, 100, .	3.2	35
15	van der Waals driven anharmonic melting of the 3D charge density wave in $\text{VSe}_2$ . <i>Nature Communications</i> , 2021, 12, 598.	12.8	28
16	Anharmonicity and Doping Melt the Charge Density Wave in Single-Layer $\text{TiSe}_2$ . <i>Nano Letters</i> , 2020, 20, 4809-4815.	9.1	24
17	How disorder affects the Berry-phase anomalous Hall conductivity: A reciprocal-space analysis. <i>Physical Review B</i> , 2014, 90, .	3.2	21
18	Strong anharmonic and quantum effects in $\text{AlH}_3$ under high pressure: A first-principles study. <i>Physical Review B</i> , 2021, 103, .	3.2	19

#	ARTICLE	IF	CITATIONS
19	Theory of the thickness dependence of the charge density wave transition in 1 T-TiTe <sub>2</sub> . 2D Materials, 2020, 7, 045032.	4.4	17
20	Orbital magnetization in insulators: Bulk versus surface. Physical Review B, 2016, 93, .	3.2	10
21	Dominant Role of Quantum Anharmonicity in the Stability and Optical Properties of Infinite Linear Acetylenic Carbon Chains. Journal of Physical Chemistry Letters, 2021, 12, 10339-10345.	4.6	10
22	Quantum anharmonic enhancement of superconductivity in <i>P<sub>63</sub>/mmc</i> ScH <sub>6</sub> at high pressures: A first-principles study. Journal of Applied Physics, 2021, 130, .	2.5	9