

# Yusuke Nomura

## List of Publications by Year in descending order

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57  
papers

2,838  
citations

236925

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175258

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58  
docs citations

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times ranked

3046  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic structures and electronic properties of cubic-pyrochlore ruthenates from first principles. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 194003.	1.8	2
2	Ab Initio Downfolding Based on the GW Approximation for Infinite-Layer Nickelates. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	6
3	Superconductivity in infinite-layer nickelates. <i>Reports on Progress in Physics</i> , 2022, 85, 052501.	20.1	43
4	Investigating Network Parameters in Neural-Network Quantum States. <i>Journal of the Physical Society of Japan</i> , 2022, 91, .	1.6	1
5	Fermi Surface Expansion above Critical Temperature in a Hund Ferromagnet. <i>Physical Review Letters</i> , 2022, 128, .	7.8	5
6	Geometrical Hall effect and momentum-space Berry curvature from spin-reversed band pairs. <i>Physical Review B</i> , 2021, 103, .	3.2	8
7	RESPACK: An ab initio tool for derivation of effective low-energy model of material. <i>Computer Physics Communications</i> , 2021, 261, 107781.	7.5	40
8	Helping restricted Boltzmann machines with quantum-state representation by restoring symmetry. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 174003.	1.8	38
9	Fully filling-controlled pyrochlore ruthenates: Emergent ferromagnetic-metal state and geometrical Hall effect. <i>Physical Review B</i> , 2021, 103, .	3.2	2
10	qeirreps: An open-source program for Quantum ESPRESSO to compute irreducible representations of Bloch wavefunctions. <i>Computer Physics Communications</i> , 2021, 264, 107948.	7.5	17
11	Purifying Deep Boltzmann Machines for Thermal Quantum States. <i>Physical Review Letters</i> , 2021, 127, 060601.	7.8	12
12	Dirac-Type Nodal Spin Liquid Revealed by Refined Quantum Many-Body Solver Using Neural-Network Wave Function, Correlation Ratio, and Level Spectroscopy. <i>Physical Review X</i> , 2021, 11, .	8.9	60
13	Ab initio derivation of low-energy Hamiltonians for systems with strong spin-orbit interaction: Application to Ca <sub>5</sub> Ir <sub>3</sub> O <sub>12</sub> . <i>Physical Review B</i> , 2021, 104, .	3.2	11
14	Orbital Isotropy of Magnetic Fluctuations in Correlated Electron Materials Induced by Hund's Exchange Coupling. <i>Physical Review Letters</i> , 2021, 127, 207205.	7.8	11
15	Efficient implementation of the continuous-time interaction-expansion quantum Monte Carlo method. <i>Computer Physics Communications</i> , 2020, 252, 106826.	7.5	4
16	Wannier90 as a community code: new features and applications. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 165902.	1.8	807
17	Efficient <i>ab initio</i> Migdal-Eliashberg calculation considering the retardation effect in phonon-mediated superconductors. <i>Physical Review B</i> , 2020, 102, .	3.2	19
18	Machine Learning Quantum States – Extensions to Fermion-Boson Coupled Systems and Excited-State Calculations. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 054706.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Materials design of dynamically stable layered nickelates. Physical Review B, 2020, 101, .	3.2	12
20	Higgs-mode resonance in third harmonic generation in NbN superconductors: Multiband electron-phonon coupling, impurity scattering, and polarization-angle dependence. Physical Review Research, 2020, 2, .	3.6	24
21	Magnetic exchange coupling in cuprate-analog layered nickelates. Physical Review Research, 2020, 2, .	3.2	7
22	Ab initio derivation of an effective Hamiltonian for the layered nickelates. Physical Review Research, 2020, 2, .	3.2	7
23	Strong-coupling formula for momentum-dependent susceptibilities in dynamical mean-field theory. Physical Review B, 2019, 99, .	3.2	14
24	Formation of a two-dimensional single-component correlated electron system and band engineering in the nickelate superconductor NdNiO <sub>2</sub> . Physical Review B, 2019, 100, .	3.2	161
25	Stripe and superconducting order competing in the Hubbard model on a square lattice studied by a combined variational Monte Carlo and tensor network method. Physical Review B, 2018, 98, .	3.2	41
26	Constructing exact representations of quantum many-body systems with deep neural networks. Nature Communications, 2018, 9, 5322.	12.8	111
27	Nonempirical Calculation of Superconducting Transition Temperatures in Light Element Superconductors. Advanced Materials, 2017, 29, 1602421.	21.0	22
28	Ï€-electron S=1/2 quantum spin-liquid state in an ionic polyaromatic hydrocarbon. Nature Chemistry, 2017, 9, 635-643.	13.6	46
29	Electronic Phase Separation and Dramatic Inverse Band Renormalization in the Mixed-Valence Cuprate LiCuO <sub>2</sub> . Physical Review Letters, 2017, 118, 176404.	7.3	7
30	Restricted Boltzmann machine learning for solving strongly correlated quantum systems. Physical Review B, 2017, 96, .	3.2	198
31	Exotic s-wave superconductivity in alkali-doped fullerides. Journal of Physics Condensed Matter, 2016, 28, 153001.	1.8	46
32	Long-range orders and spin/orbital freezing in the two-band Hubbard model. Physical Review B, 2016, 94, .	3.2	26
33	Ab initio cumulant calculation for isolated band systems: Application to organic conductor Tj ETQq. Physical Review B, 2016, 93, .	3.2	36
34	Self-optimized superconductivity attainable by interlayer phase separation at cuprate interfaces. Science Advances, 2016, 2, e1600664.	10.3	14
35	Enhancing superconductivity in C <sub>60</sub> fullerides. Physical Review B, 2016, 94, .	3.2	39
36	Methods: Ab Initio Downfolding and Model-Calculation Techniques. Springer Theses, 2016, , 31-100.	0.1	0

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37	Application of cDFPT to Alkali-Doped Fullerides. Springer Theses, 2016, , 101-117.	0.1	0
38	Analysis of Low-Energy Hamiltonians with Extended DMFT. Springer Theses, 2016, , 119-135.	0.1	0
39	Introduction to Superconductivity in Alkali-Doped Fullerides. Springer Theses, 2016, , 1-29.	0.1	0
40	Double-expansion impurity solver for multiorbital models with dynamically screened $U$ and $J$ . Physical Review B, 2015, 92, .	3.2	15
41	Negative sign problem in continuous-time quantum Monte Carlo: Optimal choice of single-particle basis for impurity problems. Physical Review B, 2015, 92, .	3.2	24
42	<i>Ab initio</i> downfolding for electron-phonon-coupled systems: Constrained density-functional perturbation theory. Physical Review B, 2015, 92, .	3.2	37
43	Hidden fermionic excitation in the superconductivity of the strongly attractive Hubbard model. Physical Review B, 2015, 92, .	3.2	13
44	Unified understanding of superconductivity and Mott transition in alkali-doped fullerides from first principles. Science Advances, 2015, 1, e1500568.	10.3	90
45	Nonlocal correlations induced by Hund's coupling: A cluster DMFT study. Physical Review B, 2015, 91, .	3.2	24
46	First-principles study of the pressure and crystal-structure dependences of the superconducting transition temperature in compressed sulfur hydrides. Physical Review B, 2015, 91, .	3.2	141
47	Multiorbital cluster dynamical mean-field theory with an improved continuous-time quantum Monte Carlo algorithm. Physical Review B, 2014, 89, .	3.2	25
48	Effect of Electron-Phonon Interactions on Orbital Fluctuations in Iron-Based Superconductors. Physical Review Letters, 2014, 112, 027002.	7.8	19
49	First-Principles Study of the Honeycomb-Lattice Iridates $\text{Na}_x\text{Ir}_2\text{O}_7$ in the Presence of Strong Spin-Orbit Interaction and Electron Correlations. Physical Review Letters, 2014, 112, 107201.	7.8	19
50	Correlation effects in (111) bilayers of perovskite transition-metal oxides. Physical Review B, 2014, 89, .	3.2	63
51	Electron-Phonon Interactions and Orbital Fluctuations in Iron-based Superconductors. , 2014, , .		0
52	Local strain and anharmonicity in the bonding of $\text{Bi}_2\text{Se}_3$ and $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2013, 88, .		
53	Pyrochlore-Type $\text{Pb}_2\text{O}_7$ Topological Insulators. Physical Review B, 2013, 88, .	7.8	44
54	Polar Antiferromagnets Produced with Orbital Order. Physical Review Letters, 2012, 108, 157603.	7.8	10

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55	Effective on-site interaction for dynamical mean-field theory. Physical Review B, 2012, 86, .	3.2	60
56	<i>Ab initio</i> derivation of electronic low-energy models for C <sub>60</sub> and aromatic compounds. Physical Review B, 2012, 85, .	3.2	83
57	Conductivity and incommensurate antiferromagnetism of Fe <sub>1.02</sub> Se <sub>0.10</sub> Te <sub>0.90</sub> under pressure. Europhysics Letters, 2012, 98, 37002.	2.0	1