

# Andrew J Millis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10015416/publications.pdf>

Version: 2024-02-01

20  
papers

960  
citations

623734

14  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

987  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Moir $\text{Å}^2$ heterostructures as a condensed-matter quantum simulator. <i>Nature Physics</i> , 2021, 17, 155-163.   | 16.7 | 317       |
| 2  | Many-Body Electronic Structure of $\text{NdNiO}_2$ and $\text{CaCuO}_2$ . <i>Physical Review X</i> , 2020, 10, .   | 8.9  | 89        |
| 3  | Nature of Symmetry Breaking at the Excitonic Insulator Transition: $\text{Ta}_2\text{NiSe}_5$ . <i>Physical Review Letters</i> , 2020, 124, 197601.  | 7.8  | 73        |
| 4  | Electromagnetic coupling in tight-binding models for strongly correlated light and matter. <i>Physical Review B</i> , 2020, 101, .   | 3.2  | 63        |
| 5  | Exact Landau Level Description of Geometry and Interaction in a Flatband. <i>Physical Review Letters</i> , 2021, 127, 246403.  | 7.8  | 56        |
| 6  | Chiral approximation to twisted bilayer graphene: Exact intravalley inversion symmetry, nodal structure, and implications for higher magic angles. <i>Physical Review Research</i> , 2021, 3, .  | 3.6  | 49        |
| 7  | Length scales of interfacial coupling between metal and insulator phases in oxides. <i>Nature Materials</i> , 2020, 19, 1182-1187.   | 27.5 | 42        |
| 8  | Ground-State Properties of the Hydrogen Chain: Dimerization, Insulator-to-Metal Transition, and Magnetic Phases. <i>Physical Review X</i> , 2020, 10, .  | 8.9  | 42        |
| 9  | Comparative many-body study of $\text{Pr}_4\text{O}_8$ and $\text{NdNiO}_2$ . <i>Physical Review B</i> , 2020, 102, .  | 3.2  | 36        |
| 10 | Collective modes in excitonic insulators: Effects of electron-phonon coupling and signatures in the optical response. <i>Physical Review B</i> , 2020, 101, .  | 3.2  | 32        |
| 11 | Imaging the coherent propagation of collective modes in the excitonic insulator $\text{Ta}_2\text{NiSe}_5$ at room temperature. <i>Science Advances</i> , 2021, 7, .   | 10.3 | 29        |
| 12 | Disentangling lattice and electronic contributions to the metal-insulator transition from bulk vs. layer confined $\text{RNiO}_3$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14434-14439. | 7.1  | 28        |
| 13 | Dependence of DFT+DMFT results on the construction of the correlated orbitals. <i>Physical Review B</i> , 2021, 103, .   | 3.2  | 12        |
| 14 | Superconductivity and antiferromagnetism in $\text{NdNiO}_2$ and $\text{CaCuO}_2$ : A cluster DMFT study. <i>Physical Review B</i> , 2022, 105, .  | 3.2  | 18        |
| 15 | Quantifying the role of the lattice in metal-insulator phase transitions. <i>Communications Physics</i> , 2022, 5, .   | 5.3  | 17        |
| 16 | Interfacial charge transfer and persistent metallicity of ultrathin $\text{SrIrO}_3/\text{SrRuO}_3$ heterostructures. <i>Science Advances</i> , 2022, 8, eabj0481.   | 10.3 | 15        |
| 17 | Nonlinear Spectroscopy of Collective Modes in an Excitonic Insulator. <i>Physical Review Letters</i> , 2020, 125, 257601.  | 7.8  | 13        |
| 18 | Metal-insulator and magnetic phase diagram of $\text{Ca}_2\text{NiO}_4$ from auxiliary field quantum Monte Carlo and dynamical mean field theory. <i>Physical Review B</i> , 2020, 101, .  | 3.2  | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Trigonal symmetry breaking and its electronic effects in the two-dimensional dihalides $MX_2$ and trihalides $MX_3$ . Physical Review B, 2022, 105, . | 3.2 | 9         |
| 20 | Anti-Poiseuille flow: Increased vortex velocity at superconductor edges. Physical Review B, 2022, 105, .  | 3.2 | 1         |