

Sungbin Lee

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,179
citations

430874

18
h-index

377865

34
g-index

41
all docs

41
docs citations

41
times ranked

1657
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Length scale formation in the Landau levels of quasicrystals. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 7 |
| 2 | Pattern-dependent proximity effect and Majorana edge mode in one-dimensional quasicrystals. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 2 |
| 3 | Higher-Order Topological Corner State Tunneling in Twisted Bilayer Graphene. <i>Carbon</i> , 2021, 174, 260-265. | 10.3 | 14 |
| 4 | Topological critical states and anomalous electronic transmittance in one-dimensional quasicrystals. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 5 |
| 5 | Hinge magnons from noncollinear magnetic order in a honeycomb antiferromagnet. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 13 |
| 6 | Hidden phases born of a quantum spin liquid: Application to pyrochlore spin ice. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 3 |
| 7 | Magnetic field and thermal Hall effect in a pyrochlore U(1) quantum spin liquid. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 1 |
| 8 | Pressure-induced topological superconductivity in the spin-orbit Mott insulator GaTa4Se8. <i>Npj Quantum Materials</i> , 2020, 5, . | 5.2 | 14 |
| 9 | Quadrupolar ordering and exotic magnetocaloric effect in RB4 ($R = \text{Dy, Ho}$). <i>Scientific Reports</i> , 2020, 10, 803. | 3.3 | 10 |
| 10 | Multipolar superconductivity in Luttinger semimetals. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 6 |
| 11 | Theory of magnetostriction for multipolar quantum spin ice in pyrochlore materials. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 13 |
| 12 | Spin-helix-driven insulating phase in two-dimensional lattice. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 3 |
| 13 | Thermal and field-induced transitions in ferroquadrupolar Kondo systems. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 4 |
| 14 | Topological d+s wave superconductors in a multiorbital quadratic band touching system. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 22 |
| 15 | Stacking sensitive topological phases in a bilayer Kane-Mele-Hubbard model at quarter filling. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 3 |
| 16 | Emergent localization in dodecagonal bilayer quasicrystals. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 24 |
| 17 | Unveiling hidden multipolar orders with magnetostriction. <i>Nature Communications</i> , 2019, 10, 4092. | 12.8 | 33 |
| 18 | Topological phases of nonsymmorphic crystals: Shastry-Sutherland lattice at integer filling. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Higher-Order Topological Insulator in Twisted Bilayer Graphene. Physical Review Letters, 2019, 123, 216803. | 7.8 | 173 |
| 20 | Two-stage multipolar ordering in $\text{Pr}_{1-x}\text{Ce}_x\text{Co}_2\text{Si}_2$ Kondo materials. Physical Review B, 2018, 97, . | 3.4 | 25 |
| 21 | Magnetic Chern Insulators in a monolayer of Transition Metal Trichalcogenides. Scientific Reports, 2018, 8, 799. | 3.3 | 9 |
| 22 | Topological multiferroic phases in the extended Kane-Mele-Hubbard model in the Hofstadter regime. Physical Review B, 2018, 98, . | 3.2 | 5 |
| 23 | Landau theory of multipolar orders in $\text{Pr}_{1-x}\text{Ce}_x\text{Co}_2\text{Si}_2$ | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Landau Theory of Charge and Spin Ordering in the Nickelates. Physical Review Letters, 2011, 106, 016405. | 7.8 | 94 |
| 38 | Metal-insulator transition in a two-band model for the perovskite nickelates. Physical Review B, 2011, 84, . | 3.2 | 93 |
| 39 | Interplay of quantum criticality and geometric frustration in columbite. Nature Physics, 2010, 6, 702-706. | 16.7 | 57 |
| 40 | Optical conductivity of LaNiO_3 . Coherent transport and correlation driven mass enhancement. Physical Review B, 2010, 82, . | 3.2 | 34 |
| 41 | Theory of the ordered phase in A-site antiferromagnetic spinels. Physical Review B, 2008, 78, . | 3.2 | 39 |