# Gabriel Kotliar

List of Publications by Year
in descending order



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|---|---|---|---|
| 153 papers | 16,509 citations | 36691 53 h-index | 16791 127 g-index |
| 158 all docs | 158 docs citations | 158 times ranked | 9623 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Iron pnictides and chalcogenides: a newÂparadigm for superconductivity. Nature, 2022, 601, 35-44. | 13.7 | 98 |
| 2 | Cascade of Spin-State Transitions in the Intermetallic Marcasite FeP<sub>2</sub>. Chemistry of Materials, 2022, 34, 2025-2033. | 3.2 | 3 |
| 3 | Orbital anisotropy of heavy fermion <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ce</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> under crystalline electric field and its energy scale. Physical Review B, 2022, 105, . | 1.1 | 1 |
| 4 | Coexisting Kondo hybridization and itinerant <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>f</mml:mi></mml:math> -electron ferromagnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>UGe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review Research, 2022, 4, . | 1.3 | 3 |
| 5 | LiYbSe<sub>2</sub>: Frustrated Magnetism in the Pyrochlore Lattice. Journal of the American Chemical Society, 2022, 144, 11933-11937. | 6.6 | 15 |
| 6 | Vacancy defect control of colossal thermopower in FeSb2. Npj Quantum Materials, 2021, 6, . | 1.8 | 13 |
| 7 | Direct observation of kink evolution due to Hundâ€™s coupling on approach to metal-insulator transition in NiS2â^’xSex. Nature Communications, 2021, 12, 1208. | 5.8 | 9 |
| 8 | Optical Properties of the Infinite-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi></mml:mrow><mml:mrow><mml:mn></mml:mn></mml:mrow></mml:msub><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi></mml:mrow><mml:mrow><mml:mn></mml:mn></mml:mrow></mml:msub><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi></mml:mrow><mml:mrow><mml:mn></mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> and Hidden Hundâ€™s Physics. Physical Review Letters, 2021, 126, 127401. | 2.9 | 33 |
| 9 | Tl<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>: A Pauli Paramagnetic Metal, Proximal to a Metal Insulator Transition. Inorganic Chemistry, 2021, 60, 4424-4433. | 1.9 | 5 |
| 10 | Reply to: â€œExtracting Kondo temperature of strongly-correlated systems from the inverse local magnetic susceptibilityâ€. Nature Communications, 2021, 12, 1445. | 5.8 | 4 |
| 11 | Spatial locality of electronic correlations in LiFeAs. Physical Review B, 2021, 103, . | 1.1 | 8 |
| 12 | Antiferromagnetic Order Breaks Inversion Symmetry in a Metallic Double Perovskite, Pb<sub>2</sub>NiOsO<sub>6</sub>. Chemistry of Materials, 2021, 33, 4188-4195. | 3.2 | 8 |
| 13 | Accelerated impurity solver for DMFT and its diagrammatic extensions. Computer Physics Communications, 2021, 267, 108075. | 3.0 | 3 |
| 14 | Efficient Slave-Boson Approach for Multiorbital Two-Particle Response Functions and Superconductivity. Physical Review X, 2021, 11, . | 2.8 | 7 |
| 15 | Ambient and High Pressure CuNiSb2: Metal-Ordered and Metal-Disordered NiAs-Type Derivative Pnictides. Inorganic Chemistry, 2020, 59, 14058-14069. | 1.9 | 0 |
| 16 | Extending the Gutzwiller approximation to intersite interactions. Physical Review B, 2020, 102, . | 1.1 | 2 |
| 17 | Measured and simulated thermoelectric properties of FeAs<sub>2â^’x</sub>Se<sub>x</sub> (x =) Tj ETQq1 1 0.784314 rgBT /O | 2.6 | 0 |
| 18 | A Pressureâ€Induced Inverse Orderâ€“Disorder Transition in Double Perovskites. Angewandte Chemie, 2020, 132, 8317-8323. | 1.6 | 1 |

| # | Article | IF | Citations |
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| 19 | A Pressureâ€Induced Inverse Orderâ€“Disorder Transition in Double Perovskites. Angewandte Chemie - International Edition, 2020, 59, 8240-8246. | 7.2 | 13 |
| 20 | Low Energy Band Structure and Symmetries of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>UTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2020, 124, 076401. | 2.9 | 59 |
| 21 | Fermi-liquid theory and divergences of the two-particle irreducible vertex in the periodic Anderson lattice. Physical Review B, 2020, 101, . | 1.1 | 12 |
| 22 | InnenrÃ¼cktitelbild: A Pressureâ€Induced Inverse Orderâ€“Disorder Transition in Double Perovskites (Angew. Chem. 21/2020). Angewandte Chemie, 2020, 132, 8378-8378. | 1.6 | 0 |
| 23 | ComDMFT: A massively parallel computer package for the electronic structure of correlated-electron systems. Computer Physics Communications, 2019, 244, 277-294. | 3.0 | 24 |
| 24 | Orbital differentiation in Hund metals. Physical Review B, 2019, 100, . | 1.1 | 25 |
| 25 | Orbital-selective Kondo lattice and enigmatic f electrons emerging from inside the antiferromagnetic phase of a heavy fermion. Science Advances, 2019, 5, eaaw9061. | 4.7 | 22 |
| 26 | MnFe0.5Ru0.5O3: an above-room-temperature antiferromagnetic semiconductor. Journal of Materials Chemistry C, 2019, 7, 509-522. | 2.7 | 5 |
| 27 | Signatures of Mottness and Hundness in archetypal correlated metals. Nature Communications, 2019, 10, 2721. | 5.8 | 41 |
| 28 | Rotationally invariant slave-boson and density matrix embedding theory: Unified framework and comparative study on the one-dimensional and two-dimensional Hubbard model. Physical Review B, 2019, 99, . | 1.1 | 25 |
| 29 | Renormalized dispersing multiplets in the spectrum of nearly Mott localized systems. Physical Review B, 2019, 99, . | 1.1 | 6 |
| 30 | High temperature singlet-based magnetism from Hundâ€™s rule correlations. Nature Communications, 2019, 10, 644. | 5.8 | 12 |
| 31 | Tetragonal Cs<sub>1.17</sub>In<sub>0.81</sub>Cl<sub>3</sub>: A Charge-Ordered Indium Halide Perovskite Derivative. Chemistry of Materials, 2019, 31, 1981-1989. | 3.2 | 20 |
| 32 | Correlated materials design: prospects and challenges. Reports on Progress in Physics, 2019, 82, 012504. | 8.1 | 35 |
| 33 | Hundness versus Mottness in a three-band Hubbardâ€“Hund model: On the origin of strong correlations in Hund metals. Annals of Physics, 2019, 405, 365-409. | 1.0 | 52 |
| 34 | Material design of indium-based compounds: Possible candidates for charge, valence, and bond disproportionation and superconductivity. Physical Review Materials, 2019, 3, . | 0.9 | 10 |
| 35 | Significant change in the electronic behavior associated with structural distortions in monocrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrAg</mml:mi><mml:mn>4</mml:mn></ Physical Review B, 2018, 98, . | 1.1 | 10 |
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| 37 | Nonequilibrium mean-field theory of resistive phase transitions. Physical Review B, 2018, 98, . | 1.1 | 19 |
| 38 | Toward a predictive theory of correlated materials. Science, 2018, 361, 348-354. | 6.0 | 45 |
| 39 | Combined computational and experimental investigation of the La <sub>2</sub> CuO <sub> 4â€“ x </sub> S <sub> x </sub> (0 â‰¤ x â‰¤ 4) quaternary system. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7890-7895. | 3.3 | 8 |
| 40 | Thermoelectric Properties of CoAsSb: An Experimental and Theoretical Study. Chemistry of Materials, 2018, 30, 4207-4215. | 3.2 | 5 |
| 41 | Study for material analogs of FeSb2 : Material design for thermoelectric materials. Physical Review Materials, 2018, 2, . | 0.9 | 11 |
| 42 | Phase stability and large in-plane resistivity anisotropy in the 112-type iron-based superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Ca</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></m mathvariant="bold">La</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>FeAs</mml:mi><mml:mn>2</mml:mn></m Physical Review B, 2017, 95, . | 1.1 | 13 |
| 43 | Microscopic Theory of Resistive Switching in Ordered Insulators: Electronic versus Thermal Mechanisms. Nano Letters, 2017, 17, 2994-2998. | 4.5 | 21 |
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| 47 | Validity of the local approximation in iron pnictides and chalcogenides. Physical Review B, 2017, 95, . | 1.1 | 11 |
| 48 | Two-Dimensional Massless Dirac Fermions in Antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow2.9mml:mrow><mml:mi <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy=". Physical Review Letters, 2017, 119, 096401. | 2.9 | 20 |
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| 50 | Magnetotransport properties of the single-crystalline nodal-line semimetal candidates<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ca</mml:mi><mml:mi>T</mml:mi><mml:mi>X</mml:mi><mml:mo>(< Physical Review B, 2017, 95, . | 1.1 | 66 |
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| 54 | Spin excitations in optimally P-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:mrow><mml:mn></mn Physical Review B, 2016, 94, . | 1.1 | 16 |

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| 55 | Structural and magnetic phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mrow><mml:mn>0.73</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>electron-overdoped FeAs layers. Physical Review B, 2016, 93, . | 1.1 | 34 |
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| 78 | Importance of Many-Body Effects in the Kernel of Hemoglobin for Ligand Binding. Physical Review Letters, 2013, 110, 106402. | 2.9 | 29 |
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| 91 | Suppression of the hidden-order phase by impurities in URu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mro | 1.1 | 8 |
| 92 | High-frequency thermoelectric response in correlated electronic systems. Physical Review B, 2011, 84, . | 1.1 | 10 |
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| 120 | Importance of Correlation Effects on Magnetic Anisotropy in Fe and Ni. Physical Review Letters, 2001, 87, 216405. | 2.9 | 107 |
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