

Michelle D Johannes

List of Publications by Year in descending order

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34
papers

2,354
citations

623734

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434195

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34
all docs

34
docs citations

34
times ranked

3756
citing authors

#	ARTICLE	IF	CITATIONS
1	Fermi surface nesting and the origin of charge density waves in metals. <i>Physical Review B</i> , 2008, 77, .	3.2	478
2	Tetragonal vs. cubic phase stability in Al ³⁺ free Ta doped Li ₇ La ₃ Zr ₂ O ₁₂ (LLZO). <i>Journal of Materials Chemistry A</i> , 2014, 2, 13431-13436.	10.3	273
3	A key role for unusual spin dynamics in \hat{A} -ferropnictides. <i>Nature Physics</i> , 2009, 5, 141-145.	16.7	250
4	Fermi-surface nesting and the origin of the charge-density wave in NbSe ₂ . <i>Physical Review B</i> , 2006, 73, .	3.2	237
5	Unconventional Fermi surface in an insulating state. <i>Science</i> , 2015, 349, 287-290.	12.6	229
6	Origin of the Structural Phase Transition in $\text{La}_{1-x}\text{Li}_x\text{O}_{12}$. <i>Physical Review Letters</i> , 2012, 109, 205702.	19.5	143
7	A Tale of Two Sites: On Defining the Carrier Concentration in Garnet-Based Ionic Conductors for Advanced Li Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500096.	10.3	96
8	Defect chemistry in layered transition-metal oxides from screened hybrid density functional calculations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5224-5235.	3.2	93
9	Quantum oscillations in the parent pnictide BaFe_2As_2 . Itinerant electrons in the reconstructed state. <i>Physical Review B</i> , 2009, 80, .	6.7	78
10	Defect Physics and Chemistry in Layered Mixed Transition Metal Oxide Cathode Materials: (Ni,Co,Mn) vs (Ni,Co,Al). <i>Chemistry of Materials</i> , 2016, 28, 1325-1334.	3.2	77
11	Hole polaron formation and migration in olivine phosphate materials. <i>Physical Review B</i> , 2012, 85, .	7.1	39
12	Prediction of unconventional magnetism in doped FeSb ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.2	27
13	Anomalous metallic state and anisotropic multiband superconductivity in Nb ₃ Pd _{0.7} Se ₃ . <i>Physical Review B</i> , 2013, 88, .	6.7	26
14	Changes in Electronic Structure upon Li Deintercalation from LiCoPO ₄ Derivatives. <i>Chemistry of Materials</i> , 2018, 30, 1898-1906.	3.2	14
15	Small and nearly isotropic hole-like Fermi surfaces in LiFeAs detected through de Haas-van Alphen effect. <i>Physical Review B</i> , 2013, 88, .	3.2	13
16	Origin of the butterfly magnetoresistance in a Dirac nodal-line system. <i>Physical Review B</i> , 2019, 100, .	21.0	13
17	Facile Proton Transport in Ammonium Borosulfate: An Unhumidified Solid Acid Polyelectrolyte for Intermediate Temperatures. <i>Advanced Materials</i> , 2020, 32, e2003667.	2.1	12
18	Innovating Safe Lithium-Ion Batteries Through Basic to Applied Research. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .		

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19	Li ⁺ Diffusion in Amorphous and Crystalline Al ₂ O ₃ for Battery Electrode Coatings. Chemistry of Materials, 2021, 33, 7795-7804.	6.7	12
20	Tight-binding Hamiltonian for LaOFeAs. Physical Review B, 2010, 82, .	3.2	9
21	f-electron hybridised Fermi surface in magnetic field-induced metallic YbB12. Npj Quantum Materials, 2022, 7, .	5.2	8
22	Non-Ising-like two-dimensional superconductivity in a bulk single crystal. Physical Review B, 2016, 94, .	3.2	6
23	Controlling the symmetry of cadmium arsenide films by epitaxial strain. APL Materials, 2021, 9, .	5.1	5
24	Fermi surface nesting and the Lindhard response function in the kagome superconductor CsV3Sb5. Applied Physics Letters, 2022, 120, .	3.3	5
25	Direct probe of the variability of Coulomb correlation in iron pnictide superconductors. Physical Review B, 2012, 85, .	3.2	4
26	Quantum oscillations in EuFe_2As_2 single crystals. Physical Review B, 2014, 90, .	3.2	4
27	Natural hyperbolicity in bulk calcite. Journal of Applied Physics, 2021, 130, .	2.5	3
28	CeO ₂ Aerogel-Induced Resilience of Catalytic Ni(OH) ₂ under Oxidizing Conditions. Chemistry of Materials, 0, , .	6.7	3
29	Lithium Ion Batteries: A Tale of Two Sites: On Defining the Carrier Concentration in Garnet-Based Ionic Conductors for Advanced Li Batteries (Adv. Energy Mater. 11/2015). Advanced Energy Materials, 2015, 5, .	19.5	2
30	Spin-Sensitive Epitaxial In ₂ Se ₃ Tunnel Barrier in In ₂ Se ₃ /Bi ₂ Se ₃ Topological van der Waals Heterostructure. ACS Applied Materials & Interfaces, 2022, 14, 34093-34100.	8.0	2
31	Crystalline Inorganic Solid Electrolytes: Computer Simulations and Comparisons with Experiment. Materials and Energy, 2015, , 191-232.	0.1	1
32	Magnetostructural coupling from competing magnetic and chemical bonding effects. Physical Review Research, 2020, 2, .	3.6	1
33	Structure-Stability Correlations in Li-ion Battery Cathode Materials. Materials Research Society Symposia Proceedings, 2014, 1655, 1.	0.1	0
34	Comparing Proton Conduction in Potassium and Ammonium Borosulfate Isostructural Polyelectrolytes Exhibiting High Proton Mobility. Advanced Energy and Sustainability Research, 0, , 2200029.	5.8	0