

# Michelle D Johannes

## List of Publications by Year in descending order

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papers

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citations

623734

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docs citations

34  
times ranked

3756  
citing authors

#	ARTICLE	IF	CITATIONS
1	f-electron hybridised Fermi surface in magnetic field-induced metallic YbB12. Npj Quantum Materials, 2022, 7, .	5.2	8
2	Fermi surface nesting and the Lindhard response function in the kagome superconductor CsV3Sb5. Applied Physics Letters, 2022, 120, .	3.3	5
3	Spin-Sensitive Epitaxial In <sub>2</sub> Se <sub>3</sub> Tunnel Barrier in In <sub>2</sub> Se <sub>3</sub> /Bi <sub>2</sub> Se <sub>3</sub> Topological van der Waals Heterostructure. ACS Applied Materials & Interfaces, 2022, 14, 34093-34100.	8.0	2
4	Controlling the symmetry of cadmium arsenide films by epitaxial strain. APL Materials, 2021, 9, .	5.1	5
5	Li <sup>+</sup> Diffusion in Amorphous and Crystalline Al <sub>2</sub> O <sub>3</sub> for Battery Electrode Coatings. Chemistry of Materials, 2021, 33, 7795-7804.	6.7	12
6	Natural hyperbolicity in bulk calcite. Journal of Applied Physics, 2021, 130, .	2.5	3
7	Prediction of unconventional magnetism in doped FeSb <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	39
8	Facile Proton Transport in Ammonium Borosulfate—An Unhumidified Solid Acid Polyelectrolyte for Intermediate Temperatures. Advanced Materials, 2020, 32, e2003667.	21.0	13
9	Magnetostructural coupling from competing magnetic and chemical bonding effects. Physical Review Research, 2020, 2, .	3.6	1
10	Origin of the butterfly magnetoresistance in a Dirac nodal-line system. Physical Review B, 2019, 100, .	3.2	13
11	Changes in Electronic Structure upon Li Deintercalation from LiCoPO <sub>4</sub> Derivatives. Chemistry of Materials, 2018, 30, 1898-1906.	6.7	26
12	Innovating Safe Lithium-Ion Batteries Through Basic to Applied Research. Journal of Electrochemical Energy Conversion and Storage, 2018, 15, .	2.1	12
13	Non-Ising-like two-dimensional superconductivity in a bulk single crystal. Physical Review B, 2016, 94, .	3.2	6
14	Defect Physics and Chemistry in Layered Mixed Transition Metal Oxide Cathode Materials: (Ni,Co,Mn) vs (Ni,Co,Al). Chemistry of Materials, 2016, 28, 1325-1334.	6.7	78
15	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
16	Unconventional Fermi surface in an insulating state. Science, 2015, 349, 287-290.	12.6	229
17	A Tale of Two Sites: On Defining the Carrier Concentration in Garnet-Based Ionic Conductors for Advanced Li Batteries. Advanced Energy Materials, 2015, 5, 1500096.	19.5	143
18	Crystalline Inorganic Solid Electrolytes: Computer Simulations and Comparisons with Experiment. Materials and Energy, 2015, , 191-232.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Quantum oscillations in $\text{EuFe}_2\text{As}_2$ single crystals. <i>Physical Review B</i> , 2014, 89, .	3.2	4
20	Structure-Stability Correlations in Li-ion Battery Cathode Materials. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1655, 1.	0.1	0
21	Tetragonal vs. cubic phase stability in Al <sup>3+</sup> free Ta doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO). <i>Journal of Materials Chemistry A</i> , 2014, 2, 13431-13436.	10.3	273
22	Defect chemistry in layered transition-metal oxides from screened hybrid density functional calculations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5224-5235.	10.3	96
23	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	14
24	Anomalous metallic state and anisotropic multiband superconductivity in $\text{Nb}_3\text{Pd}_{0.7}\text{Se}$ . <i>Physical Review B</i> , 2013, 88, .	3.2	27
25	Origin of the structural phase transition in $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ . <i>Physical Review Letters</i> , 2012, 109, 205702.	3.2	19
26	Direct probe of the variability of Coulomb correlation in iron pnictide superconductors. <i>Physical Review B</i> , 2012, 85, .	3.2	4
27	Hole polaron formation and migration in olivine phosphate materials. <i>Physical Review B</i> , 2012, 85, .	3.2	77
28	Tight-binding Hamiltonian for $\text{LaOFeAs}$ . <i>Physical Review B</i> , 2010, 82, .	3.2	9
29	Quantum oscillations in the parent pnictide $\text{BaFe}_2\text{As}_2$ itinerant electrons in the reconstructed state. <i>Physical Review B</i> , 2009, 80, .	3.2	93
30	A key role for unusual spin dynamics in $\text{Fe}$ -pnictides. <i>Nature Physics</i> , 2009, 5, 141-145.	16.7	250
31	Fermi surface nesting and the origin of charge density waves in metals. <i>Physical Review B</i> , 2008, 77, .	3.2	478
32	Fermi-surface nesting and the origin of the charge-density wave in $\text{NbSe}_2$ . <i>Physical Review B</i> , 2006, 73, .	3.2	237
33	Comparing Proton Conduction in Potassium and Ammonium Borosulfate <sup>+</sup> Isostructural Inorganic Polyelectrolytes Exhibiting High Proton Mobility. <i>Advanced Energy and Sustainability Research</i> , 0, , 2200029.	5.8	0
34	$\text{CeO}_2$ Aerogel-Induced Resilience of Catalytic $\text{Ni}(\text{OH})_2$ under Oxidizing Conditions. <i>Chemistry of Materials</i> , 0, , .	6.7	3