

# James Lord

## List of Publications by Year in descending order

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26  
papers

387  
citations

840776

11  
h-index

794594

19  
g-index

26  
all docs

26  
docs citations

26  
times ranked

310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxide muonics: II. Modelling the electrical activity of hydrogen in wide-gap and high-permittivity dielectrics. Journal of Physics Condensed Matter, 2006, 18, 1079-1119.	1.8	70
2	Oxide muonics: I. Modelling the electrical activity of hydrogen in semiconducting oxides. Journal of Physics Condensed Matter, 2006, 18, 1061-1078.	1.8	43
3	Muonium donor in rutile $TiO_2$ comparison with hydrogen. Physical Review B, 2015, 92, .	3.2	10
4	Design and commissioning of a high magnetic field muon spin relaxation spectrometer at the ISIS pulsed neutron and muon source. Review of Scientific Instruments, 2011, 82, 073904.	1.3	28
5	Hydrogen impurity in paratellurite $TeO_2$ : Muon-spin rotation and <i>ab initio</i> studies. Physical Review B, 2011, 84, .	3.2	24
6	Isolated hydrogen configurations in zirconia as seen by muon spin spectroscopy and <i>ab initio</i> calculations. Physical Review B, 2016, 94, .	3.2	24
7	Muons at ISIS. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180064.	3.4	22
8	The first 25 years of semiconductor muonics at ISIS, modelling the electrical activity of hydrogen in inorganic semiconductors and high- $\epsilon_r$ dielectrics. Physica Scripta, 2013, 88, 068503.	2.5	20
9	Temporal mapping of photochemical reactions and molecular excited states with carbon specificity. Nature Materials, 2017, 16, 467-473.	27.5	16
10	Developments at the ISIS muon source and the concomitant benefit to the user community. Journal of Physics: Conference Series, 2014, 551, 012067.	0.4	13
11	High-temperature short-range order in Mn <sub>3</sub> RhSi. Communications Materials, 2020, 1, .	6.9	13
12	The new high field photoexcitation muon spectrometer at the ISIS pulsed neutron and muon source. Review of Scientific Instruments, 2016, 87, 125111.	1.3	11
13	Photoexcited Muon Spin Spectroscopy: A New Method for Measuring Excess Carrier Lifetime in Bulk Silicon. Physical Review Letters, 2017, 119, 226601.	7.8	10
14	Barrier model in muon implantation and application to $Lu_2O_3$ . Physical Review B, 2018, 98, .	3.2	10
15	Quantum fluctuations in the quasi-one-dimensional non-Fermi liquid system $CeCo_2$ investigated using $^{137}Ba$ SR. Physical Review B, 2020, 101, .	3.2	10
16	Muon-Spin-Rotation study of yttria-stabilized zirconia (ZrO <sub>2</sub> :Y): Evidence for muon and electron separate traps. Journal of Physics: Conference Series, 2014, 551, 012050.	0.4	6
17	Signatures for Berezinskii-Kosterlitz-Thouless critical behavior in the planar antiferromagnet $BaNi_2V_2O_8$ . Physical Review B, 2021, 104, .	3.2	6
18	Superconducting ground state of the nonsymmorphic superconducting compound $Zr_2Si_2$ . Physical Review B, 2021, 104, .	2.2	15

#	ARTICLE	IF	CITATIONS
19	Hydrogen states in mixed-cation $\text{CuIn}_{(1-x)}\text{Ga}_x\text{Se}_2$ chalcopyrite alloys: a combined study by first-principles density-functional calculations and muon-spin spectroscopy. Philosophical Magazine, 0, , 1-23.	1.6	5
20	Two-band superconductivity with unconventional pairing symmetry in $\text{HfV}_2\text{Ga}_4$ . Physical Review Research, 2020, 2, .	3.6	5
21	Paramagnetic rare-earth oxide $\text{Nd}_2\text{O}_3$ investigated by muon spin spectroscopy. Physical Review B, 2019, 100, .	3.2	4
22	Muon probes of temperature-dependent charge carrier kinetics in semiconductors. Applied Physics Letters, 2019, 115, 112101.	3.3	3
23	Optical spectroscopy of muon/hydrogen defects in 6H-SiC. Journal of Applied Physics, 2020, 127, 095702. Sapphire	2.5	3
24	$\text{O}_3$ puzzle: Joint and density functional theory study. Physical Review B, 2021, 103, .	3.2	3
25	Decoupling bulk and surface recombination properties in silicon by depth-dependent carrier lifetime measurements. Applied Physics Letters, 2021, 118, .	3.3	2
26	Reply to: On the observation of photo-excitation effects in molecules using muon spin spectroscopy. Nature Materials, 2021, , .	27.5	0